

SUPPLMENTAL SITE INVESTIGATION REPORT

NewPorte Landing Development Site – Pine Lake Avenue Parcel

Submitted to

Holladay Properties

Submitted by

Geosyntec 
consultants

engineers | scientists | innovators

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SECTION 1

INTRODUCTION

1.1 Project Objective

On behalf of City of La Porte, Indiana and Holladay Properties for the NewPorte Landing Development Site, Geosyntec Consultants (Geosyntec) has prepared this Supplemental Site Investigation Report (SSIR) for the Pine Lake Avenue (PLA) Parcel located at 200 Truesdell Avenue in La Porte County, Indiana (the “Site”). A Site Location Map is presented in Figure 1. This SSIR presents the findings of a Supplemental Site Investigation (SSI) conducted in accordance with the Indiana Department of Environmental Management (IDEM) Nonrule Policy Document (NPD) Remediation Closure Guide (RCG) under oversight from the Indiana Brownfields Program (IBP) to achieve environmental closure. A Site Status Letter (SSL) will be requested for the Site to facilitate redevelopment.

The sampling plan developed for the SSI described herein was presented in the Sampling and Analysis Plan (SAP) prepared by ENTACT LLC (ENTACT) and approved by IDEM in June 2015.

1.2 Project Background

As presented in the SAP, the investigation of the PLA Parcel will be implemented in two phases and in conjunction with the investigation of the Verma Parcel. This phased approach reflects the City of La Porte’s schedule requirements for redevelopment of the property, which includes construction of the proposed road system, the installation of proposed utility corridors and the removal of existing concrete surfaces to accommodate development on the NewPorte Landing Development Site. The results of the investigation of the Verma Parcel are addressed in a separate SSIR.

This SSIR presents the results of the first phase of investigation, which includes i) assessment of soil and groundwater within the proposed road alignment and utility corridors; and ii) assessment of concrete and soil in areas to be impacted by property redevelopment. Specifically, this SSIR addresses the areas that were identified at the Parcel by previous investigations or by IDEM and IBP. The following provides a brief description of each area that is part of the assessment, which are also presented in Figure 2:

- *Proposed road alignments and utility corridors:* Areas of the Verma and PLA Parcels where the proposed road alignments and utility corridors will be located based on the redevelopment plan. Investigation is being conducted in these areas for construction worker protection.

- *George Property*: The central and south portions of the George Property, which is located on the north end of the Site, where concentrations in soil exceeded the IDEM soil screening levels. Additional samples will be collected from the north portion of the Site from stockpiles present on the property and from concrete surfaces to determine re-use or offsite recycling or disposal.
- *Little Tavern Property*: The northwest corner of the Littler Tavern Property, which is located near the southwest corner of the Site, where concentrations in soil and groundwater exceeded the IDEM soil screening levels. An effort will be made to identify additional information regarding the two underground storage tanks (USTs) that were reportedly present near the southwest corner of the property. If the existence of the tanks is established, the removal of the tanks and any impacted soil will be discussed in a proposed remediation plan.
- *City of La Porte Fire Station Property*: The La Porte Fire Station Property, which is located on the south portion of the Site, has not been previously investigated. Therefore, this property was identified as a data gap and requires investigation.
- *Parcel-wide groundwater*: Groundwater on the Parcel will be investigated to characterize the near surface groundwater for the purpose of developing groundwater use restrictions on the Parcels as part of the redevelopment of the Site.

1.3 Purpose and Scope of Work

This SSI addresses the data gaps identified in the Investigation Summary Report prepared by ENTACT (December 2014) for the PLA Parcel, and to address the concerns presented by IBP in the February 17, 2015 e-mail to the City of La Porte. The SSI will be used to support the request by the City of La Porte for a IBP Site Status Letter for the Site to facilitate redevelopment.

The scope of work for the investigation included the following:

- Collection of concrete samples from the building foundation and pavement for disposal or reuse.
- Collection of waste pile, surface, and subsurface soil samples from specific areas of the Site to evaluate the presence of Contaminants of Concern (COCs) and to inform soil management activities in the proposed road alignment/utility corridors during redevelopment; and
- Collection of groundwater samples from temporary wells for water management purposes during redevelopment and to determine locations for the 2nd phase of groundwater sampling to be conducted at the site.

SECTION 2

PREVIOUS INVESTIGATIONS

2.1 Site Location

The NewPorte Landing Development Site is located in a commercial/industrial area of the City of La Porte in La Porte County, Indiana (see Figure 1) in Section 26, Township 37 North, Range 3 West of the Second Principal Meridian. The Site is composed of three vacant, undeveloped parcels, including the Verma Parcel, the PLA Parcel and the AC Trust Parcel, that are currently zoned for commercial development. The PLA Parcel is the subject of this report.

2.2 Site Description

The PLA Parcel is comprised of 5 separate properties: the George Property, the Little Tavern Property, the Old Madison Street (OMS) Property, the abandoned Railroad Property, and the City of La Porte Fire Station Property (Figure 2). The future intended use of these properties is commercial/industrial.

2.2.1 George Property

The George Property is located at 200 Truesdell Avenue and consists of a triangular-shaped parcel of land encompassing approximately 5.5 acres. The property is located to the north of the Little Tavern and OMS Properties and to the west of the Railroad Property. The current cover of the George Property includes remnants of concrete building foundations, asphalt pavement and vegetation. A vegetated swale located along the eastern portion of the property adjacent to the Railroad Property connects to a retention pond area on the northeast portion of the property.

2.2.2 Little Tavern Property

The Little Tavern Property is located at the intersection of Truesdell and Pine Lake Avenues and consists of a rectangular-shaped parcel of land encompassing approximately 0.9 acres. The Little Tavern Property is located to the south and west of the George Property and to the north of the OCMS Property. A one-story building with a basement occupied by the Little Tavern was present on the property until the late 2000s when it was demolished. The property is currently covered with remnants of asphalt pavement, exposed soil and vegetation.

2.2.3 Old Madison Street Property

The Old Madison Street Property is located to the east of the intersection of Truesdell Avenue and Pine Lake Avenue in La Porte, Indiana. The property consists of an approximate 625 foot long street composed of compacted gravel with some asphalt pavement on the western-most

section along Pine Lake Avenue. A portion of this property is not included in the PLA Parcel, as depicted on Figure 2.

2.2.4 Railroad Property

The Railroad Property is located along the eastern border of the PLA Parcel and consists of an abandoned railroad approximately 0.25 miles in length. Rail and ties have been removed and the property is vegetated with grass and brush. An engineered barrier consisting of approximately 12 inches of clay and 4 inches of topsoil was placed on an approximate 2 acre area of the Railroad Property in 2009.

2.2.5 City of La Porte Fire Station Property

The City of La Porte Fire Station Property is located at the corner of Pine Lake and Truesdell Avenues and to the southeast of the Little Tavern Property. The property is currently vacant and undeveloped.

2.3 Historical Use

Based on the information presented in prior Phase I Environmental Site Assessments (ESA) for the Site, the following is a summary of the ownership and operational history of the properties composing the PLA Parcel.

The George Property was occupied by the Bastian-Morley Company, a manufacturer of gas and electric water heaters, from at least 1928 to approximately 1968 when records indicate the Bastian-Morley Company went bankrupt. Parker Enterprises, which operated the La Porte Foundry, occupied the George Property from approximately 1970 to 1983. In 1985, the property was acquired by the United States Small Business Administration who in turn sold the property to the City of Lakes Development Corporation in 1990. Mr. Donald George purchased the property in December 1990. The George Property buildings were demolished between 1990 and 1992 and the property has been vacant since that time. Records indicate that a UST located near the northeast corner of the auto parking area was removed from the property in 1981. In 2012, the George Property was purchased by the City of La Porte.

The Little Tavern Property was improved with a structure sometime prior to 1928. Two gasoline tanks were associated with this structure, located to the south and west of the structure in the right-of-way adjacent to the southwest corner of the property. Between 1928 and 1948, a one-story building with a basement was constructed as part of the Bastian-Morley Company facility. The building was identified as Experimental Laboratory “G” and was occupied by the Bastian-Morley Company until at least 1966. No gasoline tanks were associated with this building. In the late 1960s or early 1970s, the building reconstructed into the Little Tavern and the parking lot to the north and east of the building was paved. Operations at the Little Tavern ceased in October 2009. The more recent ownership of the property is not clear until 1986 when City

records indicate that Mr. Elden Soetje owned the property, which was later transferred to his daughters upon his death. In September 2009, the Little Tavern Property was purchased by the Community Development Partnership.

The Old Madison Street Property has been owned by the City of La Porte since it was originally platted. There was no additional information available regarding the ownership or use of the property prior to its use as a street.

The Railroad Property was operated by the Chesapeake & Ohio (C&O) Railway since at least 1919. Historical records indicated that the width of the single track alignment and ballast was approximately 45 feet. The property dimensions are approximately 100 feet in width and 1,450 feet in length. An engineered barrier consisting of a clay soil barrier and a soil cover was installed on a 2 acre area of the property in October 2009. The Railroad Property was transferred to the City of La Porte in June 2006.

The City of La Porte Fire Station Property was purchased by the City of La Porte from the Advance Rumley Company in July 1928. The fire station was constructed and put into service on July 30, 1929. In April of 1940, an additional fifteen feet of property was acquired by the City of La Porte on the south side of the building. The City of La Porte has operated the fire station since July 30, 1929. In March 2013, the fire station building was demolished and the property has been vacant since that time.

2.4 Environmental Setting

2.4.1 Geology

The surficial geology at the Site consists of silty sand fill present at depths ranging from 0 to 8 feet below ground surface (bgs). The fill, which was used to bring the property to a higher grade to support construction of the manufacturing facilities, is also composed of varying amounts of gravel and slag (e.g., brick fragments, crushed concrete, and structural debris). Underlying the fill material are fine grained sands, presumed to be native to a series of shallow lakes that were historically located on-Site prior to manufacturing operations. A clay seam was encountered adjacent to the sand layer in half of the borings. The clay seam was not uniform, ranging in color from gray to brown to black, and was present at depths from 8 to 19 feet bgs. Bedrock was not encountered in borings advanced at the Site.

2.4.2 Hydrogeology

Natural groundwater flow generally migrates from areas of higher surface elevation to areas of lower surface elevation, therefore flowing towards the nearest surface water body. Several lakes, including Clear Lake to the east, Lily Lake to the south, Stone Lake to the southwest, and Pine Lake to the west, are located within ¼ mile of the PLA Parcel. Surface water drainage at the Site

is expected to percolate into local soils or flow over the surface into the low-lying retention pond present on-Site.

Based on monitoring well data from previous subsurface investigations, groundwater is encountered at a depth of 4.5 to 7 feet bgs. The groundwater flow direction at the north end of the Site (near the AC Trust Property) shows a slight gradient to the east and south; whereas, the south end of the Site (at the Verma Parcel and Pine Lake Avenue) shows a slight gradient to the south and west.

Potable water in the area immediately surrounding the Site is provided by the City of La Porte, which derives its water from municipal wells located approximately 3,000 feet south/southwest and 4 miles east of the Site.

2.4.3 Current and Future Land Use

The five properties on the Parcel are currently vacant and undeveloped. The George Property has been vacant since the early 1990's, while buildings on the Little Tavern Property and the City of La Porte Fire Station Property were demolished in 2009 and 2013, respectively. All properties are currently covered with a combination of concrete/asphalt paving remnants, exposed soil, and vegetation.

These properties, along with properties on the Verma Parcel and AC Trust Parcel, collectively make up the NewPorte Landing Development Site. Currently, the PLA and Verma Parcels will be undergoing future commercial development.

2.4.4 Surrounding Land Use

The properties surrounding the Parcel are commercial/industrial in nature. The Parcel is bound to the north by Truesdell Avenue and the Dye Property; to the east by the Verma Parcel; to the south by a future Dunkin Donuts and Christenson properties and Pine Lake Avenue; and to the west by Truesdell Avenue and Pine Lake Avenue. Single family residential homes are located to the west of the Site beyond Truesdell Avenue and to the southwest beyond the intersection of Truesdell and Pine Lake Avenues.

SECTION 3

PREVIOUS INVESTIGATIONS

3.1 Previous Investigations

Several environmental investigations of the George, Little Tavern, Old Madison Street, and Railroad Properties have been conducted in conjunction with property transfer actions and the proposed redevelopment of the Site under the IBP and the United States Environmental Protection Agency (USEPA) Brownfields Program. The City of La Porte Fire Station Property was not investigated as part of these historical investigations. Therefore, no environmental data is available for this summary of previous investigations due to the City of La Porte’s continued ownership as a Fire Station since 1929. These investigations include the following:

Date	Company	Action	Property
1986	Roy F. Weston (IDEM/USEPA)	Site Assessment	George
2002	URS Corp.	Phase I ESA	George
2002/ 2003	URS Corp.	Phase I ESA	George, Railroad
2006	TN & Associates, Inc. on behalf of USEPA	Targeted Brownfields Assessment	Railroad
2007	URS Corp.	Phase I ESA	Old Madison Street
2007	URS Corp.	Phase I ESA	Little Tavern
2009	URS Corp.	Phase I ESA	Little Tavern
2009	URS Corp.	Phase II ESA	Old Madison Street
2009	URS Corp.	Phase II ESA	Little Tavern
2009	URS Corp.	Site Investigation	Railroad
2009	URS Corp.	Remedial Action	Railroad
2011	URS Corp.	Phase I ESA	George
2012	URS Corp.	Phase II ESA	George

3.2 Summary of Previous Investigations

The Investigation Summary Report (ENTACT, 2014) provides a detailed summary of the historical investigations completed at the Site. The investigations provided the basis for the SAP that was developed to support the SSI. Historical sampling locations are presented in Figure 2. Appendix A includes 2014 ENTACT summary report summary tables of soil, sediment, and groundwater analytical samples that were collected during the previous investigations.

Geosyntec evaluated the historical analytical data against the IDEM RISC 2015 default screening levels that are appropriate for the future use of the Site. Based on the proposed Site use as a commercial/industrial property and the likely excavation during future development, the following historical sample locations had exceedances of applicable 2015 IDEM default screening levels:

Summary of Soil Analytical Results with Exceedances of Direct Contact Screening Levels for Commercial/Industrial Use and Excavation				
Sample ID No. and Depth (ft bgs)	Property	Arsenic (mg/kg)	Lead (mg/kg)	Benzo(a)pyrene (mg/kg)
Screening Level ¹		30	800	2.9
Screening Level ²		920	1000	160
GPMW1 (0-2')	George	38 J	1,200 J	
GPMW2 (4-6')	George			4.7

Notes:

¹ IDEM direct contact screening level for commercial/industrial use (2015)

² IDEM direct contact screening level for excavation (2015)

J: Estimated concentration as the result was below the sample reporting limit or quality control criteria were not met. Shaded cells indicate no exceedances of the screening levels.

One historical sample location at the southern portion of the George Property had COCs present at concentrations that exceeded the default soil direct contact exposure route for excavation workers. This sample location was investigated for further delineation in the SSI described herein. The future property will not be using Site groundwater as a potable water source; therefore, detections of COCs that previously exceeded the soil migration to groundwater pathway were not evaluated further.

SECTION 4

FIELD INVESTIGATION

4.1 Overview and Scope

Section 4 presents the SSI scope and summary of field activities. The waste pile, concrete, soil, and groundwater sampling activities were completed from June 19 to June 30, 2015. Specific investigation activities are described within the following sections. Appendix B presents photographic logs of SSI activities.

A number of subcontractors provided services to complete the SSI. Northern Lights Locating and Inspection, Inc. (NOL) of Plainfield, Indiana provided a private utility locate; SCS Environmental Contracting (SCS) of Fort Wayne, Indiana provided drilling and monitoring well installation services; Eurofins Lancaster Laboratories Environmental, LLC (ELLE) of Lancaster, Pennsylvania, a National Environmental Laboratory Accreditation Program (NELAP)-accredited analytical laboratory provided analytical services; Pavey Excavating Inc. of La Porte, Indiana provided test pit excavation services; and U.S. Ecology of Indianapolis, Indiana is forecasted to provide solid and liquid waste disposal services.

4.2 Field Sampling Methods

The SSI soil sampling activities were conducted in June 2015 to characterize waste pile, concrete, soil, and groundwater conditions at the Site. Test pits were also excavated for soil characterization and exploration of subsurface features (e.g., former USTs). The following samples were collected during the SSI activities:

- Three waste piles (WP001, WP002, and WP003) were identified and sampled throughout the George Parcel in order to evaluate the potential for reuse of soils. The approximate locations of identified waste piles are shown in Figure 3.
- Twelve concrete samples were collected from across the Site as shown in Figure 4. All samples were collected as pulverized concrete cores from the full profile.
- Twelve soil borings (SB01 through SB12) were advanced across the Site to verify the presence of COCs observed in previous investigations and to delineate the vertical and lateral extent of these concentrations. Soil borings were advanced in the George Property, the Fire Station Property, the Little Tavern Property, and the proposed road alignment/utility corridors.
- Temporary groundwater monitoring wells were installed in five of the 12 borings. After groundwater sampling was completed for further COC delineation, the wells were removed and the boreholes were sealed in early July 2015.

- Three test pits were installed within the Little Tavern Property in order to locate the reported USTs and evaluate subsurface soil conditions.

All sampling methods, except where noted, were completed in accordance with the approved SAP. All samples were labeled by denoting the parcel, matrix, property, location, and depth (if applicable) being sampled. All sampling equipment and tools were decontaminated between each sample with an Alconox® detergent wash, followed by distilled water rinses. Immediately after filling, labeling, and sealing, the laboratory-supplied sample containers were placed into a cooler on ice for the duration of the daily field activities. Samples were submitted daily to ELLE using standard chain-of-custody procedures. After sampling, the remaining waste was collected in 55-gallon steel drums for future disposal.

The selected samples were submitted for the following laboratory analyses:

- Volatile organic compounds (VOCs) according to United States Environmental Protection Agency (USEPA) Solid Waste-846 (SW-846) Method 5035/ 8260B (grab sample);
- Semi-volatile organic compounds (SVOCs) according to USEPA Method 8270D;
- Target Analyte List (TAL) Metals according to USEPA Method 6010 and 6020; and
- Total mercury according to USEPA Method 7471A.

The SSI soil boring locations are displayed in Figures 5 and 6, while the temporary groundwater monitoring well locations are shown in Figure 7. The locations of the test pits are located in Figure 8.

4.2.1 Utility Clearance

Before the soil borings were drilled, Site plans and survey drawings were reviewed and boring locations identified. In accordance with Indiana State law, utility clearance was conducted through the Indiana 811 one-call system. Public utilities on the Site were located and marked prior to beginning the investigation activities. In addition, NOL cleared each individual boring location for utilities and other unknown potential subsurface obstructions using ground penetrating radar (GPR) and electromagnetic (EM) detector. Based on the utility locations, proposed locations for sampling were adjusted to avoid conflicts.

4.2.2 Waste Pile Sampling

Three designated waste piles (WP001 through WP 003) were identified and sampled on the George Property and proposed road alignment/utility corridor to assess reuse and disposal options of the waste soil (Figure 3). One composite sample and one grab sample were collected from each waste pile. The number of aliquots in each composite was determined on-Site by

Geosyntec personnel based on the relative size of the waste piles. 5-point, 6-point, and 4-point composite samples were collected from WP001 through WP003, respectively. Each aliquot was collected from a depth of 1 to 2 feet bgs away from any organic root material. Aliquot locations were evenly distributed around the waste pile. Two aliquots were collected per location using stainless steel spoons. One aliquot was used for the composite and placed in a large plastic bag where it was homogenized with the other aliquots from that pile to produce a composite sample representative of the entire waste pile. The second aliquot was placed individually into a new quart plastic bag to be measured with a photoionization detector (PID). A grab sample was then collected from the location with the highest PID reading.

The collected waste pile samples were analyzed for volatile organic VOCs, SVOCs, TAL Metals, and total mercury. In addition, samples were analyzed for full toxicity characteristic leaching procedure (TCLP), total sulfide, total cyanide, ignitability, paint filter liquids, and pH for disposal purposes.

4.2.3 Concrete Sampling Methods

A total of 12 samples were collected from concrete surfaces (e.g., building foundations and pavement) at the Site to evaluate on-Site reuse and disposal of the material during redevelopment (Figure 4). These concrete samples were collected using a 125 foot by 125 foot grid system overlain on the concrete building foundation and pavement areas of the Site. A star-bit drill bit was used to pulverize the full concrete slab thickness at each of the selected sample locations, at which point the pulverized samples were then collected in plastic bags and transferred to laboratory-supplied sample containers. The concrete samples collected were analyzed for VOCs, SVOCs, TAL Metals, and total mercury.

4.2.4 Soil Sampling Methods

Twelve soil borings were advanced using a track-mounted GeoProbe[®] direct-push drilling unit. Direct push soil samples were collected using a 1.375-inch diameter Dual Tube sampler with 4-foot disposable PVC sample sleeves. The location of these soil borings are shown in Figures 5 and 6. After drilling, each borehole was plugged with bentonite chips. Excess soil samples were collected in 55-gallon steel drums for future disposal at a licensed landfill.

Encountered soils were described and logged on standardized forms using the Unified Soil Classification System (USCS) in general accordance with ASTM D 2487. Site lithology generally consisted of 0.5 feet of concrete/asphalt overlying silty sand fill with varying amounts of gravel and structural debris (e.g., bricks, crushed concrete, slag) extending to approximately 8 feet bgs. The fill material was often underlain by a fine grained sand layer that extended to the boring terminus of 20 feet bgs. Most borings encountered a clay seam that varied in color (light gray to dark brown) and depth (ranging from 8 to 19 feet bgs). Bedrock was not encountered in any of the borings. Groundwater was encountered at depths ranging from 4 to 7.5 feet bgs at the time of drilling. Soil boring logs are presented in Appendix C.

4.2.4.1 Field Screening Methods

Each soil boring was sampled continuously from the bare ground surface or just below paved (asphalt or concrete) surfaces to the bottom of the boring. Each sampling interval was field screened by performing a headspace analysis using a MiniRAE® 3000 PID, equipped with an 11.7 electron-volt lamp. Headspace analysis involved filling a clean quart plastic bag one-third full with a representative soil aliquot and sealing. After the sample equilibrated for at least 10 minutes, the probe of the PID was carefully inserted into the headspace of the bag above the soil aliquot. The concentration of VOCs in the headspace of the plastic bag was measured and recorded on the boring log forms. The PID was calibrated according to the manufacturer's instructions at the start of the day using standard calibration gas and check throughout the day to verify calibration was maintained.

Soil borings were also field screened for total metal concentrations with an Olympus Innov-X® Delta Standard, or similar, handheld x-ray fluorescence (XRF) analyzer. The XRF screenings were typically completed on the same samples collected for headspace analysis. Following headspace analysis, the XRF analyzer was placed over each sample for one minute to complete a reading according to the manufacturer's recommendations. Results were recorded in the boring log forms and analyzers were downloaded into the appropriate project files at the end of daily field activities. The XRF was calibrated at the start of the day according the manufacturer's recommendations and checked throughout the day to verify that calibration was maintained. In addition, XRF field screening results were compared to the results from laboratory analysis and have been included in Appendix D.

4.2.4.2 Laboratory Sample Collection

Soil samples were collected for field examination to approximately 20 feet bgs. Surface soil samples (0 to 1 ft. bgs) and subsurface soil samples (between 1 and 20 ft. bgs) were collected and submitted for laboratory analyses. In general, the sample interval selected for chemical analysis from each boring was based on the following criteria (listed in order of priority):

- First encountered surface soils (0 to 1 ft. bgs) at either the bare ground surface or the first soils encountered below asphalt or concrete surfaces;
- Highest headspace reading above background at the sample location;
- Sample intervals with elevated XRF readings; and
- Evidence of potential presence of chemicals or non-native materials, such as staining, unnatural coloration, debris, foundry or slag material, or evidence of odor.

The selected samples were submitted for the laboratory analysis of VOCs, SVOCs, TAL Metals, and total mercury.

4.2.5 Groundwater Sampling Methods

4.2.5.1 Temporary Well Installation

At 5 select locations temporary groundwater monitoring wells were installed using hollow stem augers. Temporary wells were installed at borings SB01, SB06, SB09, SB10, and SB11 (Figure 7). Each temporary monitoring well was constructed of one-inch diameter Schedule 40 PVC riser and ten-foot length of 0.01-inch slotted screen. The temporary well screens were generally installed with the top of the well screens ranging from three to five feet bgs. After the boring was advanced to the target depth, the well casing was installed within the augers, and filter sand pack was placed around the well screening and riser from the bottom of the borehole to near the ground surface. Bentonite chips were installed above the sand pack to the ground surface to provide a temporary surface seal.

4.2.5.2 Groundwater Sampling

Groundwater samples were collected from each temporary monitoring well to assess groundwater quality at the Site. Prior to purging, the static water levels were measured with respect to the top of the inner well casing. Groundwater samples were collected using low-flow sampling methods in accordance with the approved SAP. At each well location, new low density polyethylene (LDPE) tubing was inserted into the water column at the approximate mid-point of the well screen. The LDPE tubing was connected to new silicone tubing and inserted into a peristaltic pump operating at the ground surface. During well purging, temperature, conductivity, pH, ORP, and DO were monitored and recorded on sampling logs included in Appendix E. A sewage odor was noted in groundwater collected from the well installed at soil boring SB01 during the sampling event. Non-aqueous phase liquid (NAPL) was not observed, nor measured, in any of the temporary wells.

Groundwater samples were collected after at least one well volume was purged and parameters stabilized. The groundwater samples collected were analyzed for VOCs, as well as polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270D.

On July 13, 2015, following receipt of the groundwater analytical data, temporary wells were removed and abandoned. The temporary well riser and screen were removed and the borehole was backfilled with bentonite chips.

4.2.6 Test Pit Installation and Sampling

4.2.6.1 Test Pit Installation

On June 30, 2015, three test pits were installed on the Little Tavern Property to identify the location of the reported USTs and any potential subsurface impacts associated with a release

from the tanks. The test pits were advanced with a Hitachi® front-end excavator to a maximum depth of ranging from 2 to 3.9 feet.

The test pits locations were based on historic Site layouts and field borings, but also complied with utility and ongoing construction constraints. The test pits ranged in length from 21.5 to 28.8 feet at Test Pit #2 and Test Pit #3, respectively. Test Pit #1 and Test Pit #3 were advanced in multiple directions, whereas Test Pit #2 was unidirectional. Once excavation was complete, the soil within the test pits was characterized and any staining or underground structures were noted. The location of test pits are shown in Figure 8 and Test Pit Logs can be found in Appendix F.

4.2.6.2 Test Pit Sampling

Four samples were collected within the three test pits. 6-point and 4-point composite samples were collected in Test Pit #1 and Test Pit #2, respectively, according to the same procedures as Section 4.2.2. Grab samples were collected around the pipe and the discoloration located in Test Pit #3. The selected samples were submitted for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) according to USEPA Method 8260B; total petroleum hydrocarbons (TPH) gasoline range organics (GRO) for carbon ranges C6-C10 and diesel range organics (DRO) for carbon ranges C10-C28 according to USEPA Method 8015D Revision 4, June 2003; and total lead according to USEPA Method 6010B.

4.2.7 Quality Assurance / Quality Control

In accordance with the SAP, quality assurance / quality control (QA/QC) samples were collected during the SSI to evaluate the sampling, decontamination, and analytical methods used. QA/QC samples collected during field sampling activities included field duplicates of concrete, soil, and groundwater samples to assess reproducibility, rinsate blanks to verify adequate equipment decontamination procedures, trip blanks to evaluate cross contamination in transit, and matrix spike / matrix spike duplicate (MS/MSD) samples to assess laboratory precision and identify potential interferences inherent in the sampled matrix. QA/QC duplicate and matrix spike / matrix spike duplicate samples were collected at a frequency of 1 per 20 investigation samples by matrix. Rinsate and trip blanks were collected at a maximum rate of 1 per 20 investigation samples and a minimum rate of one per day.

Field duplicates, rinsate blanks, and MS/MSD samples were collected in laboratory-supplied sample containers and immediately placed into a cooler on ice for the duration of the daily field activities. Samples were submitted daily to ELLE using standard chain of custody procedures.

In addition, data validation was completed by qualified Geosyntec personnel as a third party independent of the laboratory completing the analysis. Validation was completed to assess the overall quality of the data, and the results of the validation are summarized in a data usability evaluation (DUE) included within this report.

4.2.7.1 Field Duplicate Collection Procedure

Field duplicates were collected as split samples in accordance with the SAP in order to ensure the closest possible similarity in chemistry between the field duplicate and the parent sample. A second set of laboratory-supplied containers were filled from the same sample location as the parent sample using matrix-specific sample collection methods. Parent samples for duplicate samples were noted in the field logbook.

All field duplicates were shipped to the laboratory as blind duplicates to minimize bias in testing the reproducibility of samples, and therefore were given a unique identification that could only be cross-referenced to the parent sample in the logbook. All parent samples were labeled, as usual, by denoting the parcel, matrix, property, and location being sampled. The duplicate samples were analyzed for the same parameters as the parent samples.

4.2.7.2 Rinsate Blank Collection Procedure

Rinsate blanks are water samples that were collected daily by rinsing decontaminated, non-disposable sampling equipment with contaminant-free distilled water and capturing that water in sample containers for laboratory analysis. Rinsate blanks were collected from equipment in active use, which included the concrete corer and star-bit used in concrete sampling, the GeoProbe[®] macrocore barrel used in soil sampling, and the sampling spoons used in waste pile and test pit sampling.

The date, time, and sampling equipment tested was recorded in the field logbook for each rinsate blank. All blanks were analyzed for VOCs, SVOCs, PAHs, TAL metals, and/or total mercury.

4.2.7.3 Trip Blank Collection Procedure

Trip blanks were comprised of a suite of three headspace vials (two with deionized water and one with methanol) prepared and sealed in the laboratory by ELLE and shipped to the Site with the sampling containers. These trip blanks were stored on-Site with the sample containers during the field investigation. Trip blanks were routinely shipped back to ELLE with investigation samples for analysis of VOCs to assess cross contamination during shipment and storage.

4.2.7.4 MS/MSD and Laboratory Duplicate Sample Collection

Field collection of MS/MSD samples is similar to collection of field duplicate samples with the goal of providing supplemental homogeneous material to the laboratory to facilitate multiple analyses. At the laboratory a known concentration of the compound being tested is added to the sample and analyzed with the investigation samples. Results from the MS/MSD analysis provide information on the matrix interferences that may bias results. Laboratory duplicates were collected and analyzed in the laboratory by ELLE to evaluate reproducibility.

4.3 Investigative-Derived Waste

Soil cuttings, concrete material, purged groundwater, and decontamination fluids generated during the SSI were collected and stored in 55-gallon steel drums and staged at the center of the Site. Five drums of investigation derived wastes (IDW), including three soil drums and two water drums, were generated during the SSI. Two composite soil samples and two composite liquid samples were collected for waste characterization. Samples were submitted for laboratory analysis of landfill-required waste characterization analyses. Based on the analyses, the waste is characterized as non-hazardous special waste. Laboratory waste characterization analytical data is provided in Appendix G.

SECTION 5

INVESTIGATION RESULTS

5.1 Subsurface Conditions

5.1.1 Geology

Based on observations from soil borings completed during the SSI and historical borings completed by others, silty sand urban fill material with varying amounts of gravel and structural debris, such as brick fragments, crushed concrete, and slag, is present beneath the Site. The depth of urban fill is not uniform across the Site, generally ranging from 0 to 8 feet bgs. Native soils consisting of tan to gray fine sand and clay were generally found below the urban fill. Sand typically extends from the bottom of the urban fill to the maximum depth of exploration at 20 feet bgs. Discontinuous clay lenses are present within the sand at non-uniform depths ranging from 8 to 19 feet bgs. Bedrock was not encountered in borings advanced at the Site. Soil boring forms can be found in Appendix C.

Light brown clay was found from 0.5 to 2 feet bgs at the one soil boring advanced on the Railroad Property. The presence of this clay near the surface was the result of placement of an engineered barrier of clay and topsoil on the Railroad Property in 2009.

5.1.2 Hydrogeology

The depth to groundwater was measured by Geosyntec personnel during groundwater sampling activities. The water table ranged from 4.3 to 7.3 feet bgs with an average depth of 5.3 feet bgs. A groundwater divide was found to exist in previous investigations with the groundwater flow direction at the north end of the Site (at the AC Trust Property) showing a gradient to the southeast, and with the south end of the Site (at the Verma Parcel and Pine Lake Avenue) showing a gradient to the southwest. Groundwater sampling field forms can be found in Appendix E.

5.1.3 Field Screening

One of the 12 soil borings experienced elevated PID readings (> 10 ppm). This boring was SB06 located on the Fire Station Property. All elevated PID readings from SB06 were located at depths of 15 feet or greater bgs with a maximum reading of 26.2 ppm between 19 and 20 feet bgs. Soil staining and petroleum odors were also observed at SB06 from the 4 to 8 foot interval. This was the only sample location on the PLA Parcel where soil staining or odors were noted. PID readings and XRF screening numbers were recorded on the boring log forms provided in Appendix C. XRF screening results are tabulated in Appendix D.

5.1.4 Underground Structures

An underground section of pipe was encountered during the advancement of Test Pit #3. The pipe section may be a part of the ancillary piping associated with the former underground storage tank. The pipe was aligned in the northwest-southeast directions and measured approximately 13 feet in length as seen in the Test Pit Logs located in Appendix F. The pipe was exposed along the full length and did not appear to be connected to any additional structures. In addition to the pipe, a zone of discoloration was observed in Test Pit #3 at approximately 2.5 to 3.5 feet bgs near the intersection of all test pit trenches. Analytical soil samples were collected from near the pipe outlet and within the zone of discoloration. No other structures or discoloration were observed within the test pits. Silty sand, sandy silt, silt, sand, and fill material were encountered within the three test pits as is consistent with the remainder of Site.

5.2 Summary of Investigation Results

During the SSI, samples were collected from three waste piles, 12 full concrete slab locations, 12 soil borings, and five temporary groundwater monitoring wells. A total of 28 soil samples were collected from the 12 borings for environmental analysis, while one sample was retrieved from each sample location from the waste piles, concrete locations, and groundwater wells. Waste pile, concrete, and soil samples were analyzed for VOCs, SVOCs, TAL metals, and total mercury. The groundwater samples were analyzed for VOCs and PAHs.

The following sections present the results of the laboratory analyses. The current and anticipated future use of the Site is commercial/industrial. To evaluate the soil analytical data, Geosyntec compared the detected concentrations of tested compounds to the IDEM 2015 RISC default screening levels for direct contact for commercial/industrial property use and excavation for construction workers. To evaluate the groundwater analytical data, Geosyntec compared the detected concentrations of tested compounds to IDEM 2015 RISC default screening levels for tap residential groundwater and commercial/industrial vapor exposure.

The COCs were defined as those analytes detected in concrete, soil, or groundwater at the Site during the SSI conducted by Geosyntec in 2015, in addition to the COCs detected in historical soil samples as described in section 3.0. A summary of the waste pile, concrete, and soil analytical results for VOCs, SVOCs, and metals are presented in Tables 1 through 4, respectively. A summary of groundwater analytical results is included in Table 5, and a summary of the test pits results can be found in Table 6. The complete laboratory reports are included in Appendix G. In accordance with the approved SAP, data validation was completed and is included in a DUE provided in Appendix H. A summary of the COCs detected in the sampled media is provided in the following sections.

5.2.1 Waste Piles

No compounds exceeded applicable 2015 RISC default screening levels at the three waste pile sample locations as presented in Table 1 and shown in Figure 3.

5.2.1.1 VOCs in Waste Piles

No VOC concentrations exceeded applicable analytical reporting limits in the waste pile samples.

5.2.1.2 SVOCs in Waste Piles

Eighteen different SVOCs were reported at concentrations greater than analytical reporting limits across the waste piles; however, no samples were detected at concentrations exceeding applicable 2015 RISC default screening levels.

5.2.1.3 Metals in Waste Piles

All analyzed for metals exceeded laboratory reporting limits in the waste pile samples; however, these concentrations were less than the applicable 2015 RISC default screening levels.

5.2.2 Concrete

No compounds exceeded applicable 2015 RISC default screening levels at the concrete sample locations as presented in Table 2 and shown in Figure 4.

5.2.2.1 VOCs in Concrete

VOCs were detected at concentrations exceeding reporting limits in 12 of the 12 samples, although no samples were detected at concentrations greater than applicable 2015 RISC default screening levels.

As indicated in the DUE included in Appendix H, evidence of overall low bias was observed based on laboratory QC exceedances for 1,1,2,2-Tetrachloroethane in one concrete sample. However, this compound is not detected above reporting limits in the other concrete samples with acceptable laboratory QC, and is not identified as a COC in soil based on historical and current samples.

5.2.2.2 SVOCs in Concrete

Fifteen SVOCs were detected at concentrations greater than laboratory reporting limits in 12 of the 12 samples; however, no samples were detected at concentrations exceeding applicable 2015 RISC default screening levels.

As indicated in the DUE included in Appendix H, evidence of overall low bias was observed based on laboratory QC exceedances for the SVOC acid extractable fractions in the majority of the concrete samples. Due to the alkaline nature of the matrix from the portland cement, recoveries of acid extractable semi-volatile compounds are low resulting in a high percentage of R (or rejected) and UJ (non-detect, estimated) qualified non-detect results. However, the non-detect compounds in concrete with rejected results are generally limited to phenolic compounds, which are not identified as COCs in soil and groundwater based on historical and current samples collected from the Site and do not require further evaluation.

5.2.2.3 Metals in Concrete

Metals were detected at concentrations exceeding analytical reporting limits in 12 of the 12 samples; however, none of these analytes were detected at concentrations greater than applicable 2015 RISC default screening levels.

5.2.3 Surface Soil

Three compounds exceeded applicable 2015 RISC default screening levels at four of the 12 surface soil sample locations as presented in Table 3 and shown in Figure 5.

5.2.3.1 VOCs in Surface Soil

VOCs were detected at concentrations exceeding reporting limits in four of the 12 samples, although no samples were detected at concentrations above applicable 2015 RISC default screening levels.

As indicated in the DUE included in Appendix H, surface soil samples at locations SB02 and SB04 were rejected because of evidence of overall low bias was observed based on laboratory QC exceedances for select VOCs (1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4- and 1,3,5-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 2- and 4-Chlorotoluene, Bromobenzene, n-, sec-, and tert-Butylbenzene, n-Propylbenzene, and p-Isopropyltoluene). However, these select VOCs are not identified as COCs in soil or groundwater based on historical and current samples collected from the Site and do not require further evaluation.

5.2.3.2 SVOCs in Surface Soil

SVOCs were detected at concentrations exceeding laboratory reporting limits in 12 of the 12 samples. One of the 12 samples had one SVOC detected at a concentration greater than applicable 2015 RISC default screening level. N-Nitroso-di-n-propylamine was detected in surface soils at SB11 at a concentration of 6.8 mg/kg, which exceeds the commercial/industrial direct contact screening level (3.3 mg/kg) but not the excavation direct contact screening level (180 mg/kg).

As indicated in the DUE included in Appendix H, surface soil samples at locations SB06, SB08, and SB11 were rejected because of evidence of overall low bias was observed based on laboratory QC exceedances for select SVOCs (2,4-Dinitrophenol, 3,3'-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Benzidine, Benzyl alcohol, and/or Hexachlorocyclopentadiene). However, these select SVOCs are not identified as COCs in soil or groundwater based on historical and current samples collected from the Site and do not require further evaluation.

5.2.3.3 Metals in Surface Soil

Metals were detected at concentrations greater than reporting limits for 12 of the 12 samples. In four of the 12 samples a total of two metals were detected at concentrations exceeding applicable 2015 RISC default screening levels. These metals include:

- Iron was detected in all samples at concentrations ranging from 12,900 to 413,000 mg/kg. The surface soil concentrations at SB01 (154,000 mg/kg) and at SB05 (413,000 mg/kg) exceed the commercial/industrial and excavation direct contact screening levels (100,000 mg/kg).
- Lead was detected in all surface soil samples at concentrations ranging from 12.2 to 3,340 mg/kg. The concentrations at SB04 (1,020 mg/kg) and SB11 (3,340 mg/kg) exceed the commercial/industrial direct contact screening level (800 mg/kg) and the excavation direct contact screening level (1,000 mg/kg).

5.2.4 Subsurface Soil

One compound exceeded applicable 2015 RISC default screening levels at one of the 16 subsurface soil sample locations as presented in Table 4 and shown in Figure 6.

5.2.4.1 VOCs in Subsurface Soil

VOCs were detected at concentrations greater than reporting limits in 12 of the 16 samples, although no samples were detected at concentrations exceeding applicable 2015 RISC default screening levels.

As indicated in the DUE included in Appendix H, surface soil samples at locations SB06 and SB07 were rejected because of evidence of overall low bias was observed based on laboratory QC exceedances for select VOCs (1,1,2,2-Tetrachloroethane, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4- and 1,3,5-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 2- and 4-Chlorotoluene, Bromobenzene, n-, sec-, and tert-Butylbenzene, p-Isopropyltoluene, and/or n-Propylbenzene). However, these select VOCs are not identified as COCs in soil or groundwater based on historical and current samples in the vicinity of SB33 and SB34 and do not require further evaluation.

5.2.4.2 SVOCs in Subsurface Soil

Twenty-four SVOCs were detected at concentrations greater than laboratory reporting limits in all of the samples. One of the 16 samples had a SVOC detected at a concentration above compound-specific 2015 RISC default screening levels. Benzo(a)pyrene was detected in SB09 from the 6 to 7 foot interval at a concentration of 11 mg/kg, which exceeds the commercial/industrial direct contact screening level (2.9 mg/kg) but not the excavation direct contact screening level (160 mg/kg).

5.2.4.3 Metals in Subsurface Soil

All analyzed for metals for were detected in 16 of the 16 samples; however, no concentrations exceeded applicable 2015 RISC default screening levels for commercial/industrial use.

5.2.5 Groundwater

Three compounds exceeded applicable 2015 RISC default screening levels at one of the five groundwater sample locations as presented in Table 5 and shown in Figure 7.

5.2.5.1 VOCs in Groundwater

VOCs were detected at concentrations greater than laboratory reporting limits in three of five samples. In one of the five samples, two VOCs were detected at concentrations exceeding applicable 2015 RISC default screening levels.

- TCE was detected in groundwater at SB06 at a concentration of 7 micrograms per liter ($\mu\text{g/L}$), which exceeds the tap residential screening level (5 $\mu\text{g/L}$) but not the commercial/industrial vapor exposure screening level (38 $\mu\text{g/L}$).
- Vinyl chloride was detected in groundwater at SB06 at a concentration of 12 $\mu\text{g/L}$, which exceeds the tap residential screening level (2 $\mu\text{g/L}$) but not the commercial/industrial vapor exposure screening level (35 $\mu\text{g/L}$).

5.2.5.2 PAHs in Groundwater

PAHs were detected at concentrations greater than laboratory reporting limits in one of five samples. Within this sample, one PAH compound was detected at a concentration that exceeds applicable 2015 RISC default screening levels. Dibenz(a,h)anthracene was detected in groundwater at SB06 at a concentration of 0.1 $\mu\text{g/L}$, which exceeds the tap residential screening level (0.034 $\mu\text{g/L}$).

5.2.6 Test Pits

No compounds exceeded applicable 2015 RISC default screening levels at the four test pit sample locations. In addition, no USTs were found in the test trenches excavated.

5.2.6.1 BTEX in Test Pit Soil

No BTEX compounds were detected at concentrations greater than analytical reporting limits.

As indicated in the DUE included in Appendix H, a test pit soil sample from Test Pit #1 was rejected because of evidence of overall low bias was observed based on laboratory QC exceedances for BTEX. However, the BTEX was not detected in the other test pit soil samples at concentrations above laboratory reporting limits, and no visual evidence of BTEX impacts (e.g., elevated PID, odor, staining) was observed and does not require further evaluation.

5.2.6.2 TPH in Test Pit Soil

TPH were detected at concentrations greater than laboratory reporting limits in all four samples. TPH-GRO was detected at concentrations ranging from 0.3 to 1.5 mg/kg, while TPH-DRO was detected at concentrations ranging from 48 to 100 mg/kg. These concentrations are likely associated with the non-native soils present in the test pits rather than a subsurface release from the historical USTs.

5.2.6.3 Total Lead in Test Pit Soil

Total lead was detected at concentrations greater than laboratory reporting limits in all four samples. The maximum total lead concentration of 485 mg/kg was encountered at Test Pit #3 in the sample collected from the zone of soil discoloration. All other lead samples were within a range of 34.3 to 65.3 mg/kg. These concentrations are likely associated with the non-native soils present in test pits and not indicative of a subsurface release from the historical USTs.

SECTION 6

SUMMARY AND CONCLUSIONS

6.1 Summary

Data collected during the SSI addresses the data gaps identified in previous investigations completed for the PLA Parcel and addresses IBP concerns presented to the City of La Porte. Data from the SSI will be used to support the request by the City of La Porte for an IBP SSL for the Site to facilitate redevelopment as specified in Section 7.

- Site lithology consisted of urban fill consisting of silty sand fill with gravel and structural debris underlain by fine grained sand and clay lenses. Surficial light brown clay was encountered on the Railroad Property, which was the result of an engineered clay and topsoil barrier placed on the property in 2009.
- The average depth to groundwater was 5.3 feet bgs.
- Elevated PID readings (> 10 ppm) were measured at one of 12 soil borings. This boring (SB06) was located on the Little Tavern Property.
- No waste pile samples exceeded applicable 2015 RISC default screening levels for commercial/industrial and excavation direct contact exposure for VOCs, SVOCs, TAL metals, and total mercury.
- No concrete samples exceeded applicable 2015 RISC default screening levels for commercial/industrial and excavation direct contact exposure for VOCs, SVOCs, TAL metals, and total mercury.
- Twelve surface soil samples were analyzed for VOCs, SVOCs, TAL metals, and total mercury. Four of the 12 samples exceeded compound-specific 2015 RISC default screening levels. COC concentrations of arsenic, iron, lead, and n-nitroso-di-n-propylamine exceeded commercial/industrial and/or excavation direct contact screening levels at SB01, SB04, SB05, and SB11. These samples are located on the southeast corner of the George Property.
- Sixteen subsurface soil samples were analyzed for VOCs, SVOCs, TAL metals, and total mercury. One of the 16 samples exceeded compound-specific 2015 RISC default screening levels. The concentration of benzo(a)pyrene exceeded commercial/industrial direct contact screening levels from SB09 but not excavation direct contact screening levels. This sample is located on the Fire Station Property in soil from 6 to 7 feet bgs.

- Five groundwater samples were analyzed for VOCs and PAHs. One of the 5 samples exceeded applicable 2015 RISC default screening levels. COC concentrations of TCE, vinyl chloride, and dibenz(a,h)anthracene collected at SB06 on the Little Tavern Property exceeded tap residential screening levels but not commercial/industrial vapor exposure screening levels.
- No test pit samples analyzed for BTEX, TPH (GRO and DRO), and total lead exceeded applicable 2015 RISC default screening levels.

6.2 Conclusions

The following sections provide a summary of the samples by media type in comparison to 2015 RISC default screening levels.

6.2.1 Waste Piles

All three waste pile soil samples collected from the PLA Parcel had detectable concentrations of VOCs, SVOCs, and total metals; however, none of these samples had concentrations that exceeded applicable 2015 RISC default screening levels. No further investigation of waste piles at the Site is needed.

6.2.2 Concrete

All concrete samples collected from the PLA Parcel had detectable levels of VOCs, SVOCs, and total metals; however, none of these samples had concentrations that exceeded applicable 2015 RISC default screening levels. No further investigation of concrete at the Site is needed.

6.2.3 Soils (Surface and Subsurface)

All soil samples collected from the PLA Parcel had detectable concentrations of one or more constituents sampled (i.e., VOCs, SVOCs, and total metals). Only concentrations of arsenic, iron, lead, benzo(a)pyrene, and n-nitro-di-n-propylamine were detected above the appropriate screening levels in a limited number of areas. These areas were consolidated to the north George Property, the southeast George Property, and the Fire Station Property. In addition, soil staining, petroleum odors, and elevated PID readings were noted in subsurface soil samples from SB06 on the Little Tavern Property.

Four surface soil samples in the southeast corner of the George Property, including a historic soil sample, had COC concentrations that exceeded applicable screening levels for both commercial/industrial and excavation direct contact exposure. These samples are in or near the proposed road alignment/utility corridor, and therefore significant excavation work will take place in this area in the future. Soils within the vicinity of the impacted samples should be managed and disposed of in accordance with local, state, and federal requirements.

6.2.4 Groundwater

Three of the 12 groundwater samples collected from across the Site had detectable concentrations of one or more constituents sampled (i.e., VOC and PAHs). Only concentrations of TCE, vinyl chloride, and dibenz(a,h)anthracene were detected at concentrations above the applicable 2015 RISC default screening levels on the Little Tavern Property at SB06. Due to the proximity of the sample to the Site property boundary, further evaluation is necessary to delineate the horizontal extent of groundwater impacts in this area.

6.2.5 Test Pits

All four test pit samples collected from the Little Tavern Property had detectable concentrations of lead; however, none of these samples had concentrations that exceeded the applicable 2015 RISC default screening levels. In addition, none of the test pit samples had detectable concentrations of BTEX compounds. Although a subsurface pipe was found during the excavation of the test pits, no evidence of USTs was observed. Based on the lack of subsurface impacts to soil from UST related compounds and the lack of UST structures, no additional investigation for the former USTs is required.

SECTION 7

SITE STATUS LETTER REQUEST

7.1 Eligibility

Based on the relatively recent acquisition the PLA Parcel by the City of La Porte, the Site is eligible for a Site Status Letter (SSL) based on the following conditions:

- No state or federal enforcement action at the Site is pending.
- No federal grant requires an enforcement action at the Site.
- No condition on the Site constitutes an imminent and substantial threat to human health or the environment.
- The City of La Porte has not caused, contributed to, or knowingly exacerbated the release or threat of release of the hazardous substance or petroleum through an act or omission.
- The City of La Porte does not have any ownership interest in any entity that caused, contributed to, or knowingly exacerbated the release or threat of release.
- The City of La Porte has no alternative basis for liability for the contaminated property, such as liability as a disposer, generator, or transporter of the contaminants or liability as an owner or operator by reason of the existence of a new source of contaminants on the Site.
- The City of La Porte has demonstrated that current levels of contaminants at the brownfield, except where noted in this SSIR, substantially meet current remediation objectives, as established by IDEM under the RCG.

7.2 Institutional Control

On behalf of the City of La Porte, Geosyntec requests a SSL be issued by the IBP for the Site. Historical data and SSI data presented in this report provides the necessary data for the issuance of a SSL. Based on the residual impacts to soil and groundwater at the Site from historical use, the SSL will require land use restrictions and other institutional controls in the form of an environmental restrictive covenant (ERC). Upon issuance of the SSL, the ERC will be recorded with the property deed to facilitate redevelopment of the Site as commercial/industrial property. The ERC will include the following provisions:

- Any soils disturbed as a result of excavation and construction activities on the Site will be restored in such a manner that any remaining contaminant concentrations do not present

an imminent and substantial threat to human health or the environment. The City of La Porte will maintain records, and make available to IDEM upon request, documentation showing the excavated and restored area, and any other area affected by excavation or construction activities, does not represent such a threat. Contaminated soils that are excavated must be managed and disposed in accordance with all applicable federal and state laws.

- The City of La Porte will not use groundwater from beneath the Site for any purpose. No new wells will be installed for any purpose other than contaminant assessment or monitoring without prior IDEM approval.
- The City of La Porte will not use the Site for single-family and multi-family residential, daily child care facilities, or educational facilities for children (e.g., daycare centers or K-12 schools).
- The City of La Porte will not use the Site for any agricultural purpose.
- The City of La Porte will limit the property use on ground levels for commercial/industrial purposes.
- Due to residual soil impacts above RCG commercial/industrial screening levels in certain areas of the Site, an engineered barrier will be required before future development. The barrier may consist of a one foot barrier of clean soil (demonstrated not to contain COCs greater than RCG commercial/industrial screening levels) across the Site. Buildings with concrete foundations, asphalt and concrete paved road ways and parking lots, concrete sidewalks, and soil capped areas will serve as engineered barriers to prevent direct contact with the underlying soils and must not be excavated, removed, disturbed, demolished, or allowed to fall into disrepair without replacement by a barrier that will provide equal or better protection.

SECTION 8

REFERENCES

ENTACT LLC, 2014. *Investigation Summary Report for NewPorte Landing Development Site, Pine Lake Avenue Parcel, La Porte, Indiana*, Grapevine, Texas, December.

ENTACT LLC, 2015. *Sampling and Analysis Plan for NewPorte Landing Development Site, Pine Lake Avenue Parcel, La Porte, Indiana*, Grapevine, Texas, June.

Indiana Department of Environmental Management (IDEM), 2012. *IDEM Remediation Closure Guide*, Indianapolis, Indiana, July

Indiana Department of Environmental Management (IDEM), 2015. IDEM OLQ 2015 Screening Levels [Appendix A, Table A-6]: *IDEM Remediation Closure Guide*, Indianapolis, Indiana, July

TABLES

Table 1
Waste Pile Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana

Waste Pile Data Summary
 August 2015

Analyte	CAS No	Soil Exposure Direct Contact Commercial Industrial Criteria (mg/kg)	Soil Exposure Direct Contact Excavation Criteria (mg/kg)	PLA-WP-001 6/25/2015 1572470	PLA-WP-002 6/25/2015 1572470	PLA-WP-003 6/25/2015 1572470
General Chemistry						
Moisture	--	--	--	9.1	8.5	12.2
Metals						
Aluminum	7429-90-5	100000	100000	7430	9180	11900
Antimony	7440-36-0	470	790	0.827 J	0.606 J	0.576 J
Arsenic	7440-38-2	30	920	5.88	7.66	9.78
Barium	7440-39-3	100000	100000	51.4	54.8	50
Beryllium	7440-41-7	2300	3800	0.525 J	0.48 J	0.556 J
Cadmium	7440-43-9	980	1900	0.376 J	0.358 J	0.351 J
Calcium	7440-70-2	--	--	11200	4900	1790
Chromium	7440-47-3	--	--	10.5	13.4	17.2
Cobalt	7440-48-4	350	590	5.16	7.18	8.66
Copper	7440-50-8	47000	79000	18.5	17.9	24.8
Iron	7439-89-6	100000	100000	12000	14800	22600
Lead	7439-92-1	800	1000	68.2	23.8	21.6
Magnesium	7439-95-4	--	--	5290	3420	2640
Manganese	7439-96-5	26000	46000	259	344	517
Mercury	7439-97-6	3.1	3.1	0.0585 J	0.0329 J	0.0329 J
Nickel	7440-02-0	22000	38000	12	15.3	27.4
Potassium	7440-09-7	--	--	1430	1450	1830
Selenium	7782-49-2	5800	9800	1.3 J	1.18 J	1.25 J
Silver	7440-22-4	5800	9800	0.359 J	0.373 J	0.596
Sodium	7440-23-5	--	--	72.7 J	56 J	50.4 J
Thallium	7440-28-0	12	20	1.07 J	< 0.833	1.13 J
Vanadium	7440-62-2	5800	9900	16.6	21.8	26.8
Zinc	7440-66-6	100000	100000	111	92.7	128
SVOCs						
2,2'-oxybis(1-Chloropropane)	108-60-1	220	1000	< 0.018	< 0.018	< 0.019
2,4,5-Trichlorophenol	95-95-4	82000	100000	< 0.018	< 0.018	< 0.019
2,4,6-Trichlorophenol	88-06-2	820	1800	< 0.018	< 0.018	< 0.019
2,4-Dichlorophenol	120-83-2	2500	5200	< 0.018	< 0.018	< 0.019
2,4-Dimethylphenol	105-67-9	16000	34000	< 0.018	< 0.018	< 0.019
2,4-Dinitrophenol	51-28-5	1600	3400	< 0.33	< 0.32	< 0.34
2,4-Dinitrotoluene	121-14-2	74	3400	< 0.073	< 0.072	< 0.075
2,6-Dinitrotoluene	606-20-2	15	520	< 0.018	< 0.018	< 0.019
2-Chloronaphthalene	91-58-7	93000	100000	< 0.008	< 0.008	< 0.008
2-Chlorophenol	95-57-8	5800	9800	< 0.018	< 0.018	< 0.019
2-Methylnaphthalene	91-57-6	3000	6800	0.016 J	0.012 J	< 0.004
2-Methylphenol	95-48-7	41000	87000	< 0.018	< 0.018	< 0.019
2-Nitroaniline	88-74-4	8000	18000	< 0.018	< 0.018	< 0.019
2-Nitrophenol	88-75-5	--	--	< 0.018	< 0.018	< 0.019
3,3'-Dichlorobenzidine	91-94-1	51	2700	< 0.11	< 0.11	< 0.11
3-Nitroaniline	99-09-2	--	--	< 0.073	< 0.072	< 0.075
4,6-Dinitro-2-methylphenol	534-52-1	66	140	< 0.18	< 0.18	< 0.19
4-Bromophenyl-phenylether	101-55-3	--	--	< 0.018	< 0.018	< 0.019
4-Chloro-3-methylphenol	59-50-7	82000	100000	< 0.018	< 0.018	< 0.019
4-Chloroaniline	106-47-8	120	6000	< 0.036	< 0.036	< 0.038
4-Chlorophenyl-phenylether	7005-72-3	--	--	< 0.018	< 0.018	< 0.019
4-Methylphenol	106-44-5	82000	100000	< 0.018	< 0.018	< 0.019
4-Nitroaniline	100-01-6	1200	7000	< 0.073	< 0.072	< 0.075
4-Nitrophenol	100-02-7	--	--	< 0.18	< 0.18	< 0.19
Acenaphthene	83-32-9	45000	100000	0.01 J	0.016 J	< 0.004
Acenaphthylene	208-96-8	--	--	0.044	0.014 J	< 0.004
Anthracene	120-12-7	100000	100000	0.057	0.065	< 0.004
Benzidine	92-87-5	0.1	5.2	< 0.77	< 0.76	< 0.79
Benzo(a)anthracene	56-55-3	29	1600	0.18	0.26	0.007 J
Benzo(a)pyrene	50-32-8	2.9	160	0.22	0.31	0.012 J
Benzo(b)fluoranthene	205-99-2	29	1600	0.27	0.36	0.011 J
Benzo(g,h,i)perylene	191-24-2	--	--	0.18	0.21	0.016 J
Benzo(k)fluoranthene	207-08-9	290	16000	0.11	0.14	0.008 J
Benzoic acid	65-85-0	100000	100000	< 0.18	< 0.18	< 0.19
Benzyl alcohol	100-51-6	82000	100000	< 0.18	< 0.18	< 0.19
bis(2-Chloroethoxy)methane	111-91-1	2500	5200	< 0.018	< 0.018	< 0.019

Table 1
Waste Pile Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana

Waste Pile Data Summary
August 2015

Analyte	CAS No	Soil Exposure Direct Contact Commercial Industrial Criteria (mg/kg)	Soil Exposure Direct Contact Excavation Criteria (mg/kg)	PLA-WP-001 6/25/2015 1572470	PLA-WP-002 6/25/2015 1572470	PLA-WP-003 6/25/2015 1572470
bis(2-Chloroethyl)ether	111-44-4	10	810	< 0.018	< 0.018	< 0.019
bis(2-Ethylhexyl)phthalate	117-81-7	1600	34000	< 0.073	< 0.072	< 0.075
Butylbenzylphthalate	85-68-7	12000	100000	< 0.073	< 0.072	< 0.075
Carbazole	86-74-8	--	--	0.02 J	0.024 J	< 0.019
Chrysene	218-01-9	2900	100000	0.19	0.28	0.008 J
Dibenz(a,h)anthracene	53-70-3	2.9	160	0.036	0.054	< 0.004
Dibenzofuran	132-64-9	1000	1900	< 0.018	< 0.018	< 0.019
Diethylphthalate	84-66-2	100000	100000	< 0.073	< 0.072	< 0.075
Dimethylphthalate	131-11-3	--	--	< 0.073	< 0.072	< 0.075
Di-n-butylphthalate	84-74-2	82000	100000	< 0.073	< 0.072	< 0.075
Di-n-octylphthalate	117-84-0	8200	18000	< 0.073	< 0.072	< 0.075
Fluoranthene	206-44-0	30000	68000	0.28	0.48	0.01 J
Fluorene	86-73-7	30000	68000	0.014 J	0.016 J	< 0.004
Hexachlorobenzene	118-74-1	14	750	< 0.004	< 0.004	< 0.004
Hexachlorobutadiene	87-68-3	300	1800	< 0.018	< 0.018	< 0.019
Hexachlorocyclopentadiene	77-47-4	4900	10000	< 0.18	< 0.18	< 0.19
Hexachloroethane	67-72-1	580	1200	< 0.036	< 0.036	< 0.038
Indeno(1,2,3-cd)pyrene	193-39-5	29	1600	0.15	0.18	0.011 J
Isophorone	78-59-1	24000	100000	< 0.018	< 0.018	< 0.019
Naphthalene	91-20-3	170	3100	0.018 J	0.008 J	< 0.004
Nitrobenzene	98-95-3	220	3100	< 0.018	< 0.018	< 0.019
N-Nitroso-di-n-propylamine	621-64-7	3.3	180	< 0.018	< 0.018	< 0.019
N-Nitrosodiphenylamine	86-30-6	4700	100000	< 0.018	< 0.018	< 0.019
Pentachlorophenol	87-86-5	40	2600	< 0.036	< 0.036	< 0.038
Phenanthrene	85-01-8	--	--	0.18	0.26	0.004 J
Phenol	108-95-2	100000	100000	< 0.018	< 0.018	< 0.019
Pyrene	129-00-0	23000	51000	0.29	0.48	0.013 J
VOCs						
1,1,1,2-Tetrachloroethane	630-20-6	88	680	< 0.0008	< 0.0008	< 0.001
1,1,1-Trichloroethane	71-55-6	640	640	< 0.0008	< 0.0008	< 0.001
1,1,2,2-Tetrachloroethane	79-34-5	27	1900	< 0.0008	< 0.0008	< 0.001
1,1,2-Trichloroethane	79-00-5	6.3	35	< 0.0008	< 0.0008	< 0.001
1,1-Dichloroethane	75-34-3	160	1700	< 0.0008	< 0.0008	< 0.001
1,1-Dichloroethene	75-35-4	1000	1200	< 0.0008	< 0.0008	< 0.001
1,1-Dichloropropene	563-58-6	--	--	< 0.0008	< 0.0008	< 0.001
1,2,3-Trichlorobenzene	87-61-6	660	1400	< 0.0008	< 0.0008	< 0.001
1,2,3-Trichloropropane	96-18-4	1.1	46	< 0.0008	< 0.0008	< 0.001
1,2,4-Trichlorobenzene	120-82-1	260	400	< 0.018	< 0.018	< 0.019
1,2,4-Trimethylbenzene	95-63-6	220	220	< 0.0008	< 0.0008	< 0.001
1,2-Dibromo-3-chloropropane	96-12-8	0.64	86	< 0.002	< 0.002	< 0.002
1,2-Dibromoethane	106-93-4	1.6	180	< 0.0008	< 0.0008	< 0.001
1,2-Dichlorobenzene	95-50-1	380	380	< 0.018	< 0.018	< 0.019
1,2-Dichloroethane	107-06-2	20	730	< 0.0008	< 0.0008	< 0.001
1,2-Dichloropropane	78-87-5	44	370	< 0.0008	< 0.0008	< 0.001
1,3,5-Trimethylbenzene	108-67-8	180	180	< 0.0008	< 0.0008	< 0.001
1,3-Dichlorobenzene	541-73-1	--	--	< 0.018	< 0.018	< 0.019
1,3-Dichloropropane	142-28-9	1500	1500	< 0.0008	< 0.0008	< 0.001
1,4-Dichlorobenzene	106-46-7	110	16000	< 0.018	< 0.018	< 0.019
2,2-Dichloropropane	594-20-7	--	--	< 0.0008	< 0.0008	< 0.001
2-Butanone	78-93-3	28000	28000	< 0.003	< 0.003	< 0.004
2-Chlorotoluene	95-49-8	910	910	< 0.0008	< 0.0008	< 0.001
2-Hexanone	591-78-6	1300	3300	< 0.002	< 0.002	< 0.003
4-Chlorotoluene	106-43-4	250	250	< 0.0008	< 0.0008	< 0.001
4-Methyl-2-pentanone	108-10-1	3400	3400	< 0.002	< 0.002	< 0.003
Acetone	67-64-1	100000	100000	< 0.006	< 0.006	< 0.007
Benzene	71-43-2	51	1800	< 0.0004	< 0.0004	< 0.0005
Bromobenzene	108-86-1	680	680	< 0.0008	< 0.0008	< 0.001
Bromochloromethane	74-97-5	630	3500	< 0.0008	< 0.0008	< 0.001
Bromodichloromethane	75-27-4	13	930	< 0.0008	< 0.0008	< 0.001
Bromoform	75-25-2	2900	34000	< 0.0008	< 0.0008	< 0.001
Bromomethane	74-83-9	30	160	< 0.002	< 0.002	< 0.002

Table 1
Waste Pile Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana

Waste Pile Data Summary
August 2015

Analyte	CAS No	Soil Exposure Direct Contact Commercial Industrial Criteria (mg/kg)	Soil Exposure Direct Contact Excavation Criteria (mg/kg)	PLA-WP-001 6/25/2015 1572470	PLA-WP-002 6/25/2015 1572470	PLA-WP-003 6/25/2015 1572470
Carbon Disulfide	75-15-0	740	740	< 0.0008	< 0.0008	< 0.001
Carbon Tetrachloride	56-23-5	29	460	< 0.0008	< 0.0008	< 0.001
Chlorobenzene	108-90-7	760	760	< 0.0008	< 0.0008	< 0.001
Chloroethane	75-00-3	2100	2100	< 0.002	< 0.002	< 0.002
Chloroform	67-66-3	14	1900	< 0.0008	< 0.0008	< 0.001
Chloromethane	74-87-3	460	1300	< 0.002	< 0.002	< 0.002
cis-1,2-Dichloroethene	156-59-2	2300	2400	< 0.0008	< 0.0008	< 0.001
cis-1,3-Dichloropropene	10061-01-5	--	--	< 0.0008	< 0.0008	< 0.001
Dibromochloromethane	124-48-1	32	800	< 0.0008	< 0.0008	< 0.001
Dibromomethane	74-95-3	98	540	< 0.0008	< 0.0008	< 0.001
Dichlorodifluoromethane	75-71-8	370	850	< 0.002	< 0.002	< 0.002
Ethylbenzene	100-41-4	250	480	< 0.0008	< 0.0008	< 0.001
Isopropylbenzene	98-82-8	270	270	< 0.0008	< 0.0008	< 0.001
m+p-Xylene	179601-23-1	390	390	< 0.0008	< 0.0008	< 0.001
Methyl Tertiary Butyl Ether	1634-04-4	2100	8900	< 0.0004	< 0.0004	< 0.0005
Methylene Chloride	75-09-2	3200	3300	< 0.002	< 0.002	< 0.002
n-Butylbenzene	104-51-8	110	110	< 0.0008	< 0.0008	< 0.001
n-Propylbenzene	103-65-1	260	260	< 0.0008	< 0.0008	< 0.001
o-Xylene	95-47-6	430	430	< 0.0008	< 0.0008	< 0.001
p-Isopropyltoluene	99-87-6	--	--	< 0.0008	< 0.0008	< 0.001
sec-Butylbenzene	135-98-8	150	150	< 0.0008	< 0.0008	< 0.001
Styrene	100-42-5	870	870	< 0.0008	< 0.0008	< 0.001
tert-Butylbenzene	98-06-6	180	180	< 0.0008	< 0.0008	< 0.001
Tetrachloroethene	127-18-4	170	170	< 0.0008	< 0.0008	< 0.001
Toluene	108-88-3	820	820	< 0.0008	< 0.0008	< 0.001
trans-1,2-Dichloroethene	156-60-5	1700	1700	< 0.0008	< 0.0008	< 0.001
trans-1,3-Dichloropropene	10061-02-6	--	--	< 0.0008	< 0.0008	< 0.001
Trichloroethene	79-01-6	19	95	< 0.0008	< 0.0008	< 0.001
Trichlorofluoromethane	75-69-4	1200	1200	< 0.002	< 0.002	< 0.002
Vinyl Chloride	75-01-4	17	1300	< 0.0008	< 0.0008	< 0.001

Notes:

1. **Bold** font in concentration values indicate detection above laboratory reporting limit
2. Yellow fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Commercial/Industrial Use (Table A-6)
3. Orange fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Excavation (Table A-6)

Table 2
Concrete Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana

Analyte	CAS No	Soil Exposure Direct Contact Commercial Industrial Criteria (mg/kg)	Soil Exposure Direct Contact Excavation Criteria (mg/kg)	PLA-CS-George_bldg-A7 6/23/2015 1571673	PLA-CS-George Building-B4 6/19/2015 1570835	PLA-CS-George Building-B5 6/19/2015 1570835	PLA-CS-George Building-B6 6/19/2015 1570835	PLA-CS-George Building-B7 6/19/2015 1570835	PLA-CS-George Building-C3 6/19/2015 1570835	PLA-CS-George Building-C6 6/19/2015 1570835	PLA-CS-George Building-C7 6/19/2015 1570835	PLA-CS-George Building-C8 6/19/2015 1570835	PLA-CS-George Building-D7 6/19/2015 1570835	PLA-CS-George_Bldg-D8 6/22/2015 1571386	PLA-CS-George_Bldg-D9 6/22/2015 1571386	DUP-062215-001 (PLA-CS-George_Bldg-D9) 6/22/2015 1571386
Chloroform	67-66-3	14	1900	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chloromethane	74-87-3	460	1300	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
cis-1,2-Dichloroethene	156-59-2	2300	2400	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	124-48-1	32	800	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	74-95-3	98	540	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	75-71-8	370	850	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Ethylbenzene	100-41-4	250	480	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Isopropylbenzene	98-82-8	270	270	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
m+p-Xylene	179601-23-1	390	390	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001 J	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Methyl Tertiary Butyl Ether	1634-04-4	2100	8900	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Methylene Chloride	75-09-2	3200	3300	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002 J	< 0.002	< 0.002	< 0.002	< 0.002
n-Butylbenzene	104-51-8	110	110	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
n-Propylbenzene	103-65-1	260	260	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	95-47-6	430	430	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p-Isopropyltoluene	99-87-6	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
sec-Butylbenzene	135-98-8	150	150	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	100-42-5	870	870	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
tert-Butylbenzene	98-06-6	180	180	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	127-18-4	170	170	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	108-88-3	820	820	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	1700	1700	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	79-01-6	19	95	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	75-69-4	1200	1200	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vinyl Chloride	75-01-4	17	1300	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Notes:

1. **Bold** font in concentration values indicate detection above laboratory reporting limit
2. Yellow fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Commercial/Industrial Use (Table A-6)
3. Orange fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Excavation (Table A-6)

Table 3
Surface Soil Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana

Analyte	CAS No	Soil Exposure Direct Contact Commercial Industrial Criteria (mg/kg)	Soil Exposure Direct Contact Excavation Criteria (mg/kg)	PLA-S-GP-SB01-0-1 6/19/2015 1570838	PLA-S-GP-SB02-0-1 6/19/2015 1570838	PLA-S-GP-SB03-0-1 6/19/2015 1570838	PLA-S-GP-SB04-0-1 6/22/2015 1571386	DUP-062215-002 (PLA-S-GP-SB04-0-1) 6/22/2015 1571386	PLA-S-GP-SB05-0-1 6/22/2015 1571386	PLA-S-LT-SB06-0-1 6/23/2015 1571673	PLA-S-FS-SB07-0-1 6/23/2015 1571670	DUP-062315-001 (PLA-S-FS-SB07-0-1) 6/23/2015 1571673	PLA-S-FS-SB08-0-1 6/23/2015 1571670	PLA-S-FS-SB09-0-1 6/22/2015 1571386	PLA-S-ROAD-SB10-0-1 6/19/2015 1570838	PLA-S-Road-SB11-0-1 6/22/2015 1571386	PLA-S-Road-SB12-0-1 6/22/2015 1571386
Chloroform	67-66-3	14	1900	0.002 J	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	0.003 J	< 0.001
Chloromethane	74-87-3	460	1300	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
cis-1,2-Dichloroethene	156-59-2	2300	2400	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
cis-1,3-Dichloropropene	10061-01-5	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Dibromochloromethane	124-48-1	32	800	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Dibromomethane	74-95-3	98	540	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Dichlorodifluoromethane	75-71-8	370	850	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Ethylbenzene	100-41-4	250	480	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Isopropylbenzene	98-82-8	270	270	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
m+p-Xylene	179601-23-1	390	390	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Methyl Tertiary Butyl Ether	1634-04-4	2100	8900	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Methylene Chloride	75-09-2	3200	3300	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
n-Butylbenzene	104-51-8	110	110	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
n-Propylbenzene	103-65-1	260	260	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
o-Xylene	95-47-6	430	430	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
p-Isopropyltoluene	99-87-6	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
sec-Butylbenzene	135-98-8	150	150	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Styrene	100-42-5	870	870	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
tert-Butylbenzene	98-06-6	180	180	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Tetrachloroethene	127-18-4	170	170	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	0.004 J	< 0.0008	< 0.001	< 0.001
Toluene	108-88-3	820	820	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
trans-1,2-Dichloroethene	156-60-5	1700	1700	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
trans-1,3-Dichloropropene	10061-02-6	--	--	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Trichloroethene	79-01-6	19	95	< 0.001	< 0.001	0.002 J	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001
Trichlorofluoromethane	75-69-4	1200	1200	< 0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Vinyl Chloride	75-01-4	17	1300	< 0.001	< 0.001	< 0.0009	< 0.001	< 0.0009	< 0.0009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0008	< 0.001	< 0.001

Notes:

1. **Bold** font in concentration values indicate detection above laboratory reporting limit
2. Yellow fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Commercial/Industrial Use (Table A-6)
3. Orange fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Excavation (Table A-6)

Table 4
Subsurface Soil Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana

Analyte	CAS No	Soil Exposure Direct Contact Commercial Industrial Criteria (mg/kg)	Soil Exposure Direct Contact Excavation Criteria (mg/kg)	PLA-S-GP-SB01-4-5 6/19/2015 1570838	PLA-S-GP-SB02-4.5-5.5 6/19/2015 1570838	PLA-S-GP-SB03-3-4 6/19/2015 1570838	DUP-061915-001 (PLA-S-GP-SB03-3-4) 6/19/2015 1570838	PLA-S-GP-SB04-7-8 6/22/2015 1571386	PLA-S-GP-SB05-6-7 6/22/2015 1571386	PLA-S-LT-SB06-6-7 6/23/2015 1571673	PLA-S-LT-SB06-15-16 6/23/2015 1571673	PLA-S-FS-SB07-7-8 6/23/2015 1571670	PLA-S-FS-SB07-15-16 6/23/2015 1571670	PLA-S-FS-SB08-7-8 6/23/2015 1571670	PLA-S-FS-SB08-18-19 6/23/2015 1571670	PLA-S-FS-SB09-6-7 6/22/2015 1571386	PLA-S-ROAD-SB10-4-5 6/19/2015 1570838	PLA-S-ROAD-SB11-4-5 6/22/2015 1571386	PLA-S-ROAD-SB11-8-10 6/22/2015 1571386	PLA-S-ROAD-SB12-7-8 6/22/2015 1571386
Ethylbenzene	100-41-4	250	480	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
Isopropylbenzene	98-82-8	270	270	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
m+p-Xylene	179601-23-1	390	390	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
Methyl Tertiary Butyl Ether	1634-04-4	2100	8900	< 0.0006	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0005	< 0.0005	< 0.0004	< 0.0006	< 0.0004	< 0.0005	< 0.0007	< 0.0005	< 0.0005	< 0.001	< 0.0006
Methylene Chloride	75-09-2	3200	3300	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003 J	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.005	< 0.002
n-Butylbenzene	104-51-8	110	110	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
n-Propylbenzene	103-65-1	260	260	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
o-Xylene	95-47-6	430	430	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
p-Isopropyltoluene	99-87-6	--	--	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
sec-Butylbenzene	135-98-8	150	150	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
Styrene	100-42-5	870	870	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
tert-Butylbenzene	98-06-6	180	180	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
Tetrachloroethene	127-18-4	170	170	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	0.002 J	< 0.001	< 0.0009	< 0.002	< 0.001
Toluene	108-88-3	820	820	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
trans-1,2-Dichloroethene	156-60-5	1700	1700	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	0.14	< 0.0008	0.038	< 0.0008	0.011	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
trans-1,3-Dichloropropene	10061-02-6	--	--	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	< 0.001	< 0.0008	< 0.001	< 0.0008	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
Trichloroethene	79-01-6	19	95	< 0.001	< 0.0008	0.001 J	0.002 J	< 0.0008	< 0.0008	< 0.001	3.4	0.002 J	2.1	0.011	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001
Trichlorofluoromethane	75-69-4	1200	1200	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.003	< 0.002	< 0.002	< 0.005	< 0.002
Vinyl Chloride	75-01-4	17	1300	< 0.001	< 0.0008	< 0.0009	< 0.0009	< 0.0008	< 0.0008	< 0.001	0.01	< 0.0008	< 0.001	< 0.0008	0.001 J	< 0.001	< 0.001	< 0.0009	< 0.002	< 0.001

- Notes:**
- Bold** font in concentration values indicate detection above laboratory reporting limit
 - Yellow fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Commercial/Industrial Use (Table A-6)
 - Orange fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Excavation (Table A-6)

**Table 5
Groundwater Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana**

**Groundwater Summary
August 2015**

Analyte	CAS No	Groundwater Tap Residential Criteria (µg/L)	Vapor Exposure Groundwater Commercial/ Industrial Criteria (µg/L)	PLA-GTW-GP-SB01 6/24/2015 1572076	PLA-GTW-LT-SB06 6/25/2015 1572469	PLA-GTW-FS-SB09 6/23/2015 1571668	PLA-GTW-ROAD-SB10 6/25/2015 1572469	PLA-GTW-ROAD-SB11 6/23/2015 1571668
SVOCs								
Acenaphthene	83-32-9	530	--	< 0.1	0.3 J	< 0.1	< 0.1	< 0.1
Acenaphthylene	208-96-8	--	--	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1
Anthracene	120-12-7	1800	--	< 0.1	0.2 J	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	56-55-3	0.34	--	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	50-32-8	0.2	--	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	205-99-2	0.34	--	< 0.1	0.2 J	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	191-24-2	--	--	< 0.1	0.2 J	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	207-08-9	3.4	--	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	218-01-9	34	--	< 0.1	0.2 J	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	53-70-3	0.034	--	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1
Fluoranthene	206-44-0	800	--	< 0.1	1	< 0.1	< 0.1	< 0.1
Fluorene	86-73-7	290	--	< 0.1	0.7	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	193-39-5	0.34	--	< 0.1	0.1 J	< 0.1	< 0.1	< 0.1
Naphthalene	91-20-3	1.7	460	< 0.1	0.2 J	< 0.1	< 0.1	< 0.1
Phenanthrene	85-01-8	--	--	< 0.1	1	< 0.1	< 0.1	< 0.1
Pyrene	129-00-0	120	--	< 0.1	0.8	< 0.1	< 0.1	< 0.1
VOCs								
1,1,1,2-Tetrachloroethane	630-20-6	5.7	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-Trichloroethane	71-55-6	200	54000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.76	310	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	79-00-5	5	46	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	75-34-3	27	550	2	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	75-35-4	7	1300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloropropene	563-58-6	--	--	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	87-61-6	7	--	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	96-18-4	0.0075	--	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	95-63-6	15	--	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	96-12-8	0.2	--	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane	106-93-4	0.05	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	107-06-2	5	210	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	78-87-5	5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	108-67-8	120	--	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	142-28-9	370	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2,2-Dichloropropane	594-20-7	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone	78-93-3	5600	--	< 3	< 3	< 3	< 3	< 3
2-Chlorotoluene	95-49-8	240	--	< 1	< 1	< 1	< 1	< 1
2-Hexanone	591-78-6	38	--	< 3	< 3	< 3	< 3	< 3
4-Chlorotoluene	106-43-4	250	--	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone	108-10-1	1200	--	< 3	< 3	< 3	< 3	< 3
Acetone	67-64-1	14000	--	< 6	< 6	< 6	< 6	7 J
Benzene	71-43-2	5	120	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	108-86-1	62	--	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	74-97-5	83	--	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	75-27-4	80	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	75-25-2	80	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	74-83-9	7.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Disulfide	75-15-0	810	--	< 1	< 1	< 1	< 1	< 1
Carbon Tetrachloride	56-23-5	5	28	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	108-90-7	100	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	75-00-3	21000	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	67-66-3	80	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	74-87-3	190	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	156-59-2	70	--	< 0.5	28	< 0.5	< 0.5	0.7 J
cis-1,3-Dichloropropene	10061-01-5	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	124-48-1	80	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	74-95-3	8	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	75-71-8	200	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	100-41-4	700	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Isopropylbenzene	98-82-8	450	--	< 1	< 1	< 1	< 1	< 1
m+p-Xylene	179601-23-1	390	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl Tertiary Butyl Ether	1634-04-4	140	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methylene Chloride	75-09-2	5	--	< 2	< 2	< 2	< 2	< 2
n-Butylbenzene	104-51-8	1000	--	< 1	< 1	< 1	< 1	< 1
n-Propylbenzene	103-65-1	660	--	< 1	< 1	< 1	< 1	< 1
o-Xylene	95-47-6	190	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	99-87-6	--	--	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	135-98-8	2000	--	< 1	< 1	< 1	< 1	< 1
Styrene	100-42-5	100	--	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	98-06-6	690	--	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	127-18-4	5	470	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	108-88-3	1000	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	156-60-5	100	--	< 0.5	2	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	10061-02-6	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	79-01-6	5	38	< 0.5	7	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	75-69-4	1100	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl Chloride	75-01-4	2	35	< 0.5	12	< 0.5	< 0.5	< 0.5

Notes:

- 1. Bold font in concentration values indicate detection above laboratory reporting limit**
- 2. Yellow fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Groundwater- Tap Contact for Residential Use (Table A-6)**
- 3. Orange fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Vapor Exposure- Groundwater Sources for Commercial/Industrial Use (Table A-6)**

Table 6
Test Pit Sample Summary
NewPorte Landing Development Site - PLA Parcel
La Porte, Indiana

Test Pit Soil Data Summary
August 2015

Analyte	CAS No	Soil Exposure Direct Contact Commercial Industrial Criteria (mg/kg)	Soil Exposure Direct Contact Excavation Criteria (mg/kg)	PLA-S-LT- TP1-001 6/30/2015 1573610	PLA-S-LT- TP2-001 6/30/2015 1573610	PLA-S-LT- TP3-001 6/30/2015 1573610	PLA-S-LT- TP3-002 6/30/2015 1573610
General Chemistry							
DRO C10-C28 8015C/D (Microwv)	--	--	--	48	100	95	35
Moisture	--	--	--	11.1	9.2	13.3	7.9
TPH-GRO Soil C6-C10	--	--	--	0.3 J	0.8 J	0.4 J	1.5
Metals							
Lead	7439-92-1	800	1000	55.8	34.3	485	65.3
VOCs							
Benzene	71-43-2	51	1800	< 0.0005	< 0.0005	< 0.0005	< 0.0004
Ethylbenzene	100-41-4	250	480	< 0.001	< 0.001	< 0.001	< 0.0009
Toluene	108-88-3	820	820	< 0.001	< 0.001	< 0.001	< 0.0009
Xylene (Total)	1330-20-7	260	260	< 0.001	< 0.001	< 0.001	< 0.0009

Notes:

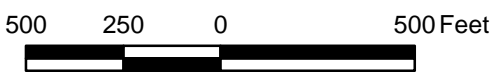
1. **Bold** font in concentration values indicate detection above laboratory reporting limit
2. Yellow fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Commercial/Industrial Use (Table A-6)
3. Orange fill indicates sample exceedance for IDEM OLQ 2015 Screening Levels for Soil Exposure - Direct Contact for Excavation (Table A-6)

FIGURES



P:\Oak Brook Projects\CHR8417 - La Porte\ENTACT

Parcel boundary



Oak Brook, Illinois

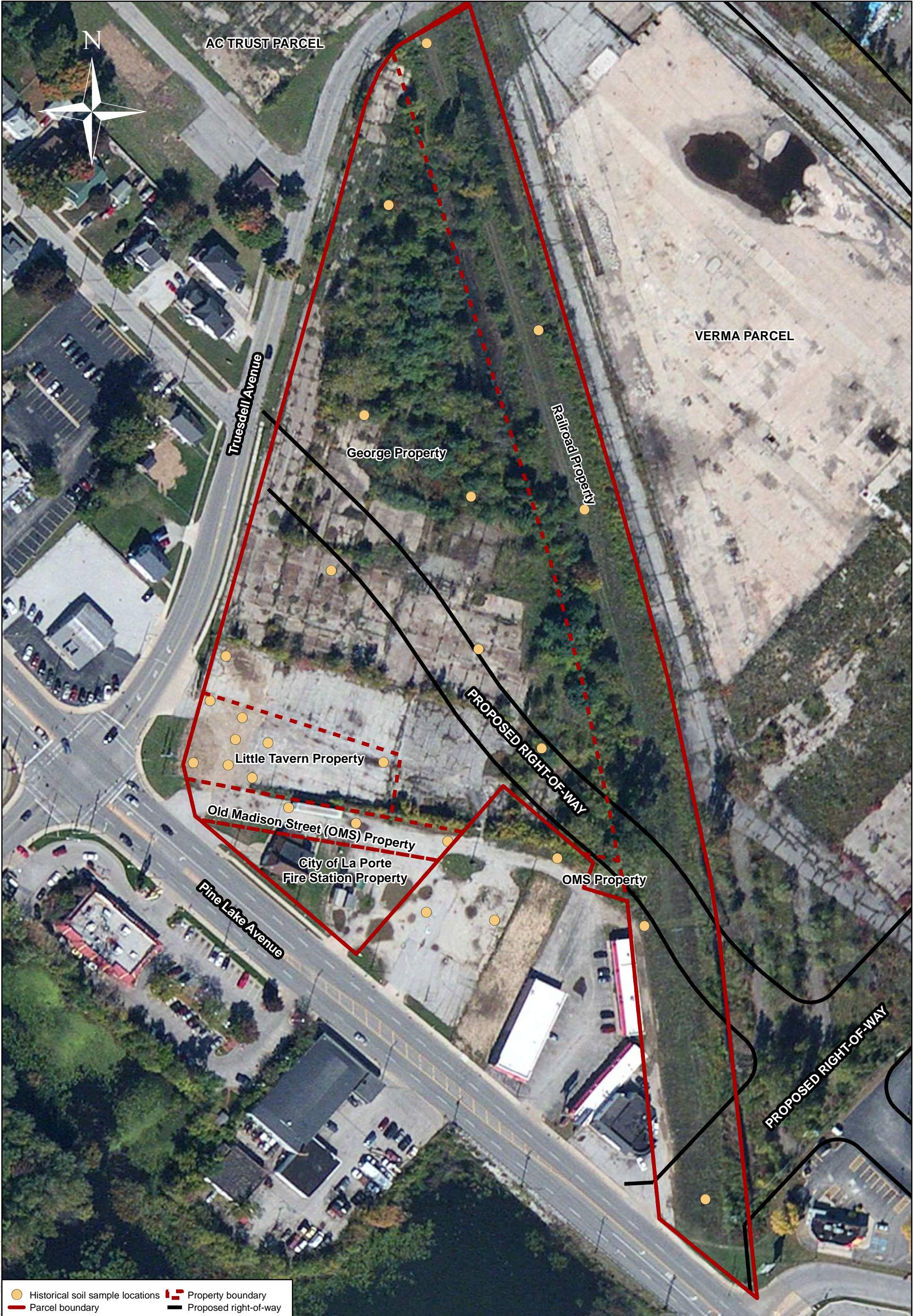
AUGUST 2015

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Site Location Map
Pine Lake Avenue Parcel
NewPorte Landing Development Site
La Porte, Indiana

FIGURE 1



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● Historical soil sample locations Property boundary
 Parcel boundary Proposed right-of-way



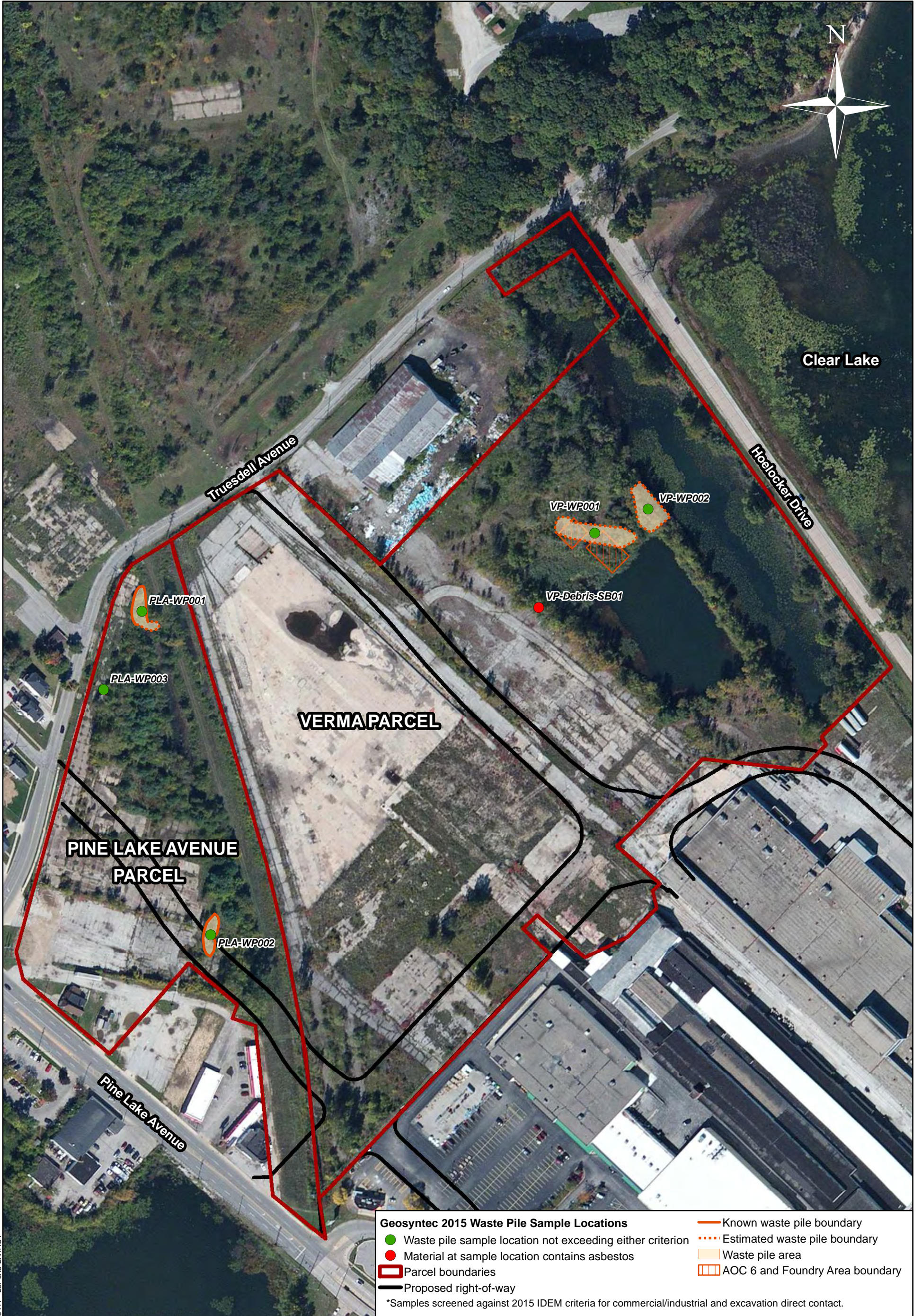
Geosyntec consultants

Historical Soil Sample and Property Locations
 Pine Lake Avenue Parcel
 NewPorte Landing Development Site
 La Porte, Indiana

FIGURE
2

Oak Brook, Illinois

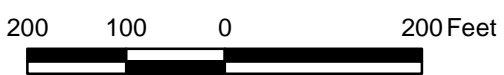
AUGUST 2015



Geosyntec 2015 Waste Pile Sample Locations

- Waste pile sample location not exceeding either criterion
- Material at sample location contains asbestos
- Parcel boundaries
- Proposed right-of-way
- Known waste pile boundary
- Estimated waste pile boundary
- Waste pile area
- AOC 6 and Foundry Area boundary

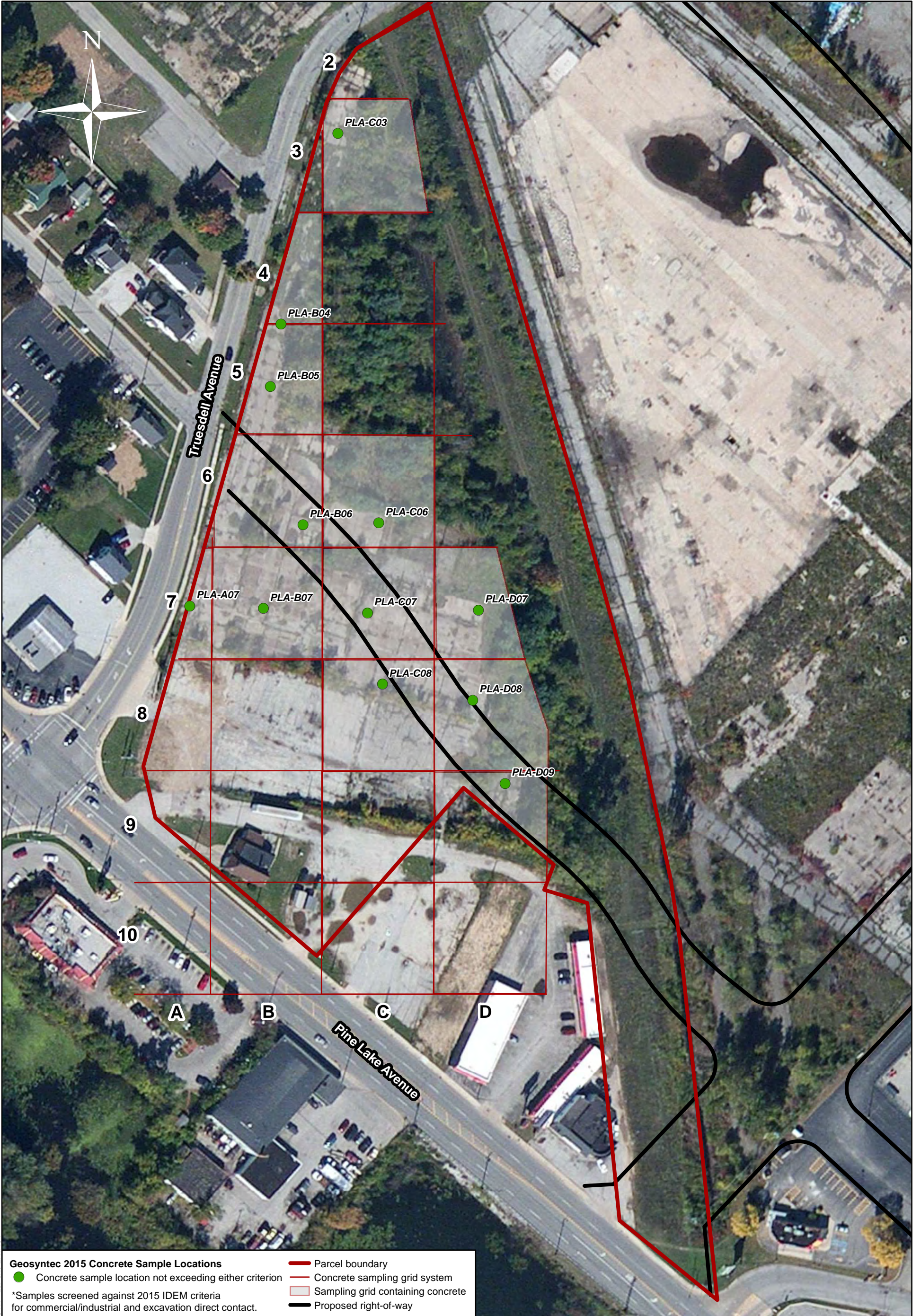
*Samples screened against 2015 IDEM criteria for commercial/industrial and excavation direct contact.



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Waste Pile Sample Locations and Comparison to 2015 IDEM Screening Levels
NewPorte Landing Development Site
La Porte, Indiana

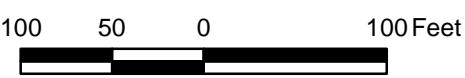
FIGURE 3



Geosyntec 2015 Concrete Sample Locations

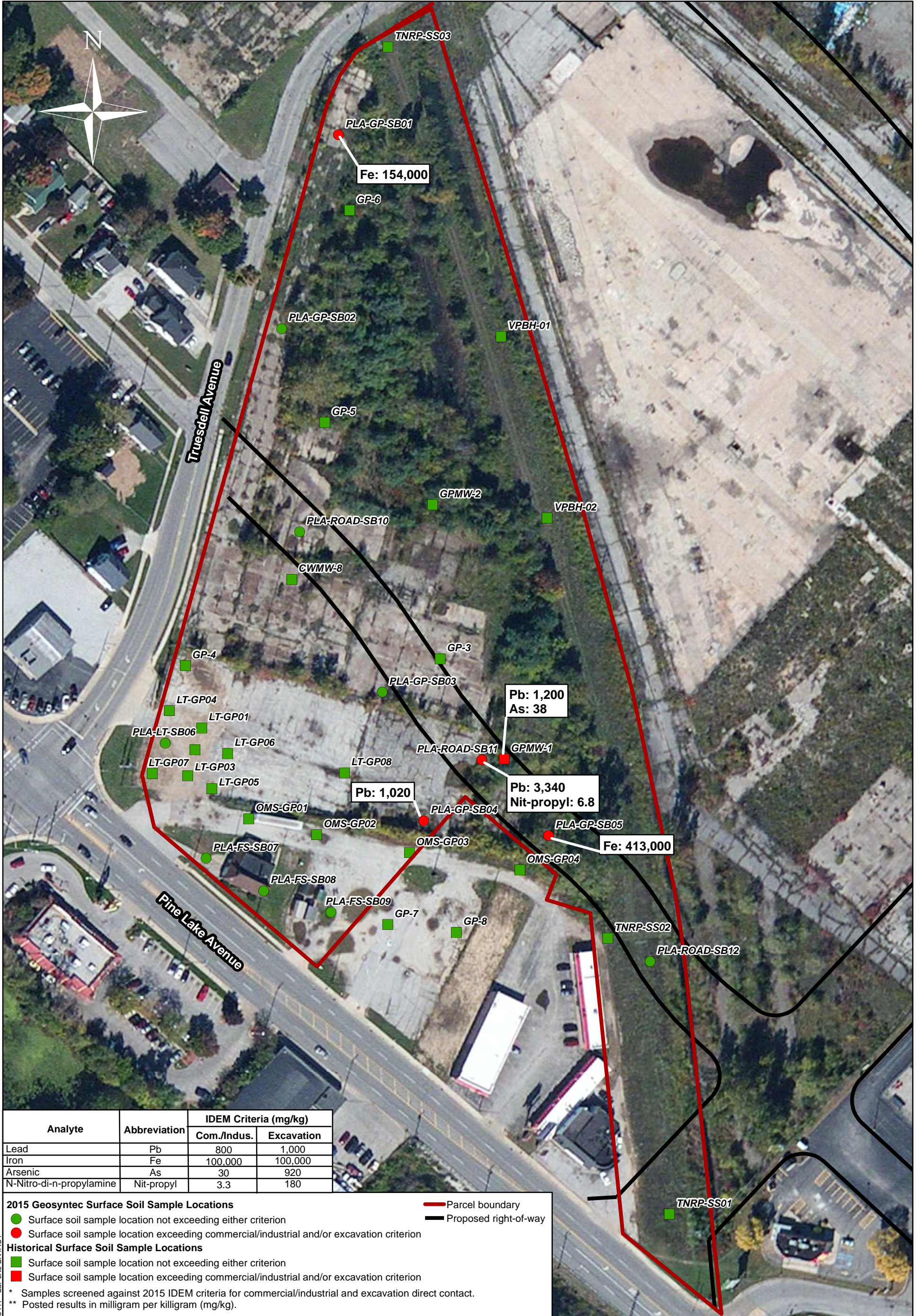
- Concrete sample location not exceeding either criterion
- Parcel boundary
- Concrete sampling grid system
- Sampling grid containing concrete
- Proposed right-of-way

*Samples screened against 2015 IDEM criteria for commercial/industrial and excavation direct contact.



Concrete Sample Locations and Comparison to 2015 IDEM Screening Levels
 Pine Lake Avenue Parcel
 NewPorte Landing Development Site
 La Porte, Indiana

FIGURE 4



Analyte	Abbreviation	IDEM Criteria (mg/kg)	
		Com./Indus.	Excavation
Lead	Pb	800	1,000
Iron	Fe	100,000	100,000
Arsenic	As	30	920
N-Nitro-di-n-propylamine	Nit-propyl	3.3	180

2015 Geosyntec Surface Soil Sample Locations

- Surface soil sample location not exceeding either criterion
- Surface soil sample location exceeding commercial/industrial and/or excavation criterion

Historical Surface Soil Sample Locations

- Surface soil sample location not exceeding either criterion
- Surface soil sample location exceeding commercial/industrial and/or excavation criterion

* Samples screened against 2015 IDEM criteria for commercial/industrial and excavation direct contact.
 ** Posted results in milligram per kilogram (mg/kg).

100 50 0 100 Feet

Oak Brook, Illinois AUGUST 2015

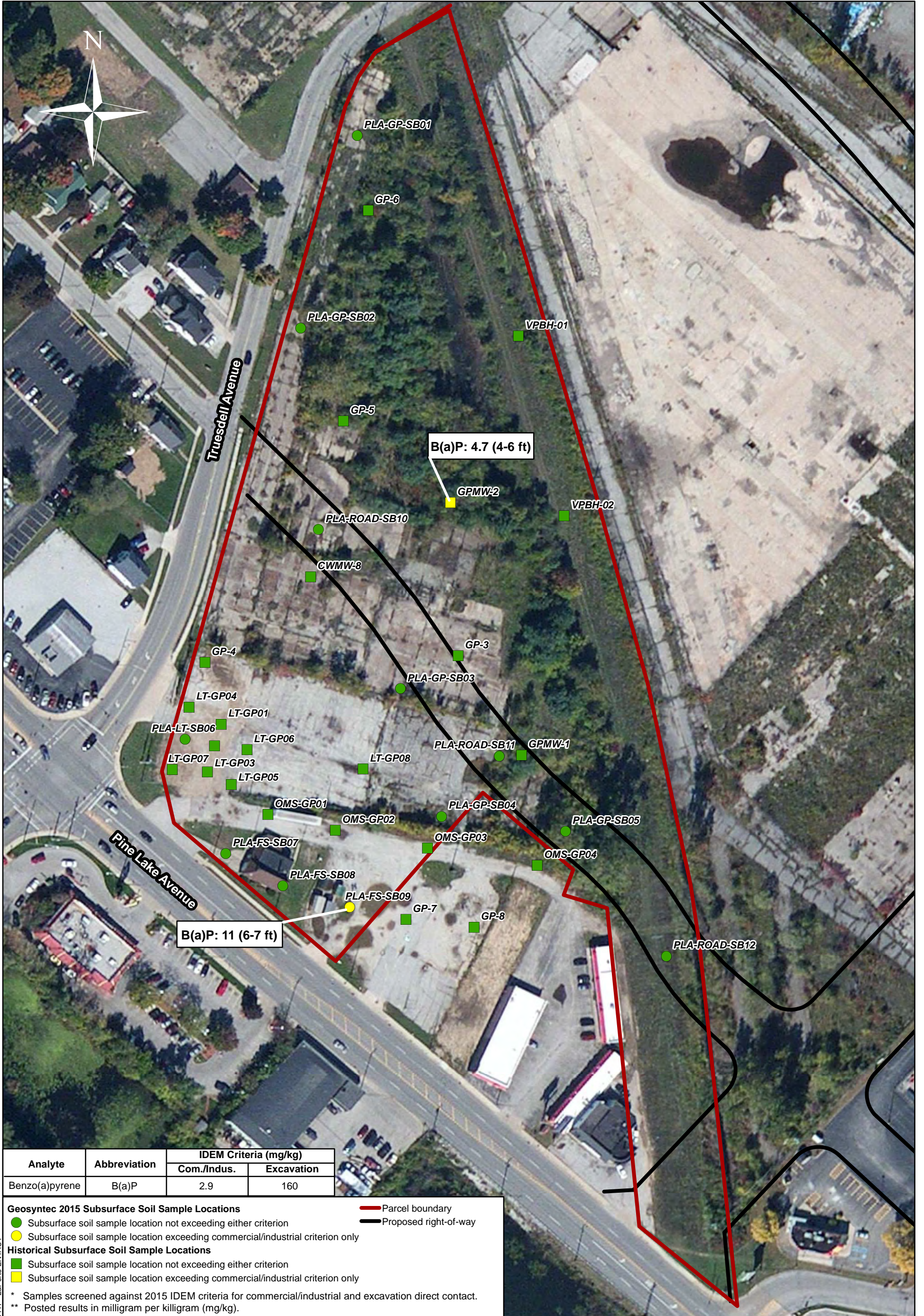
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Surface Soil Sample Locations and Comparison to 2015 IDEM Screening Levels

Pine Lake Avenue Parcel
NewPorte Landing Development Site
La Porte, Indiana

FIGURE
5

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Analyte	Abbreviation	IDEM Criteria (mg/kg)	
		Com./Indus.	Excavation
Benzo(a)pyrene	B(a)P	2.9	160

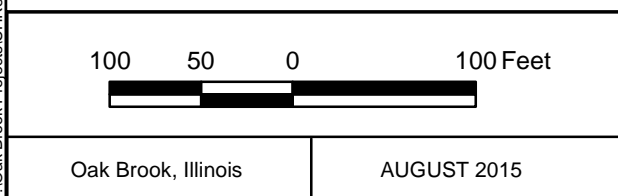
Geosyntec 2015 Subsurface Soil Sample Locations

- Subsurface soil sample location not exceeding either criterion
- Subsurface soil sample location exceeding commercial/industrial criterion only

Historical Subsurface Soil Sample Locations

- Subsurface soil sample location not exceeding either criterion
- Subsurface soil sample location exceeding commercial/industrial criterion only

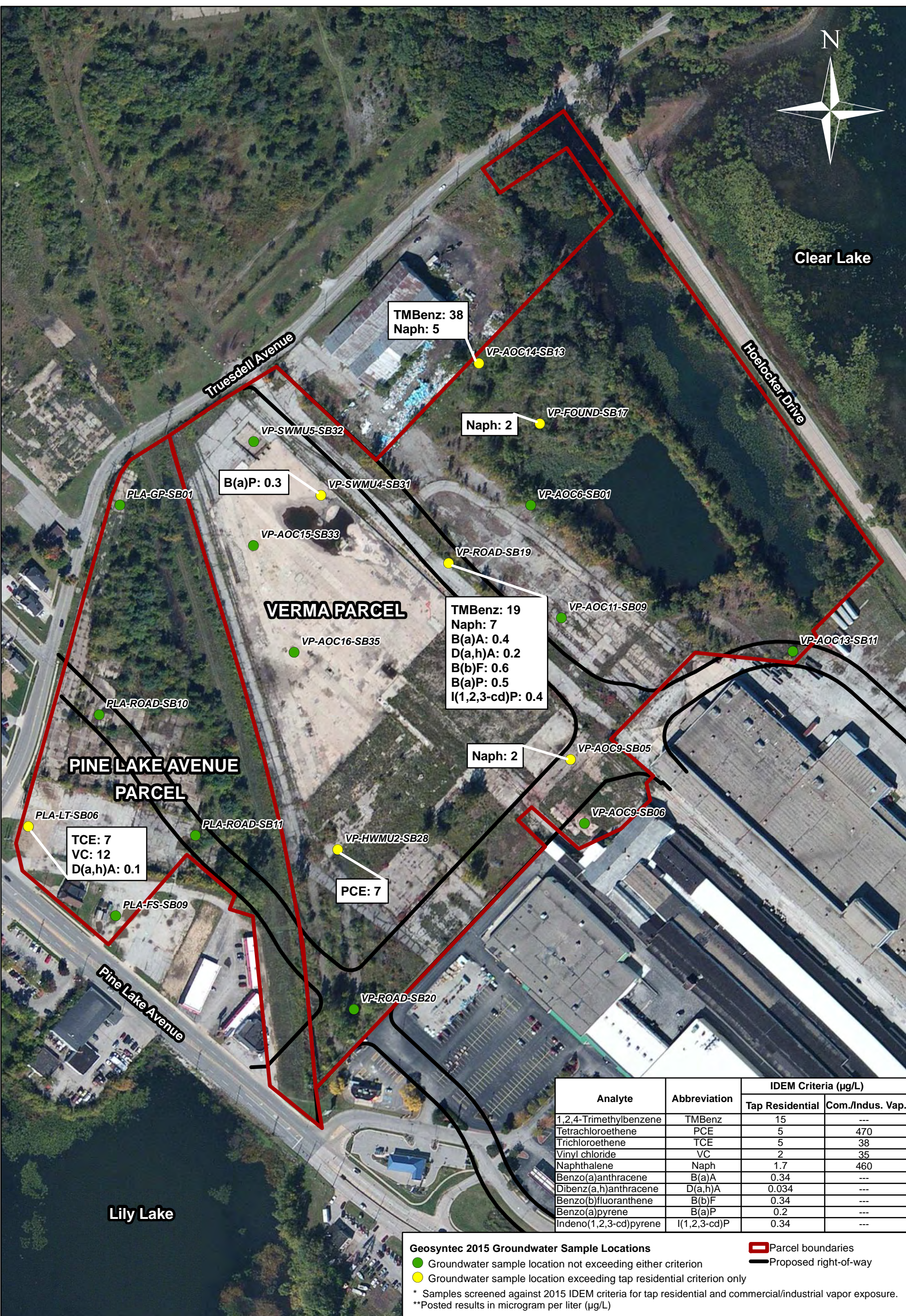
* Samples screened against 2015 IDEM criteria for commercial/industrial and excavation direct contact.
 ** Posted results in milligram per kilogram (mg/kg).



Subsurface Soil Sample Locations and Comparison to 2015 IDEM Screening Levels

Pine Lake Avenue Parcel
 NewPorte Landing Development Site
 La Porte, Indiana

P:\Oak Brook Projects\CHR8417 - LaPorte ENTACT



TMBenz: 38
Naph: 5

Naph: 2

B(a)P: 0.3

TMBenz: 19
Naph: 7
B(a)A: 0.4
D(a,h)A: 0.2
B(b)F: 0.6
B(a)P: 0.5
I(1,2,3-cd)P: 0.4

Naph: 2

TCE: 7
VC: 12
D(a,h)A: 0.1

PCE: 7

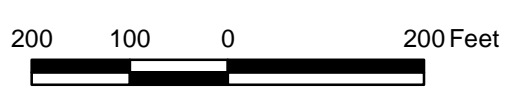
Analyte	Abbreviation	IDEM Criteria (µg/L)	
		Tap Residential	Com./Indus. Vap.
1,2,4-Trimethylbenzene	TMBenz	15	---
Tetrachloroethene	PCE	5	470
Trichloroethene	TCE	5	38
Vinyl chloride	VC	2	35
Naphthalene	Naph	1.7	460
Benzo(a)anthracene	B(a)A	0.34	---
Dibenz(a,h)anthracene	D(a,h)A	0.034	---
Benzo(b)fluoranthene	B(b)F	0.34	---
Benzo(a)pyrene	B(a)P	0.2	---
Indeno(1,2,3-cd)pyrene	I(1,2,3-cd)P	0.34	---

Geosyntec 2015 Groundwater Sample Locations

- Groundwater sample location not exceeding either criterion
- Groundwater sample location exceeding tap residential criterion only

■ Parcel boundaries
— Proposed right-of-way

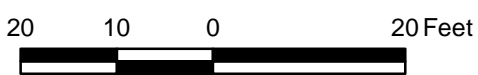
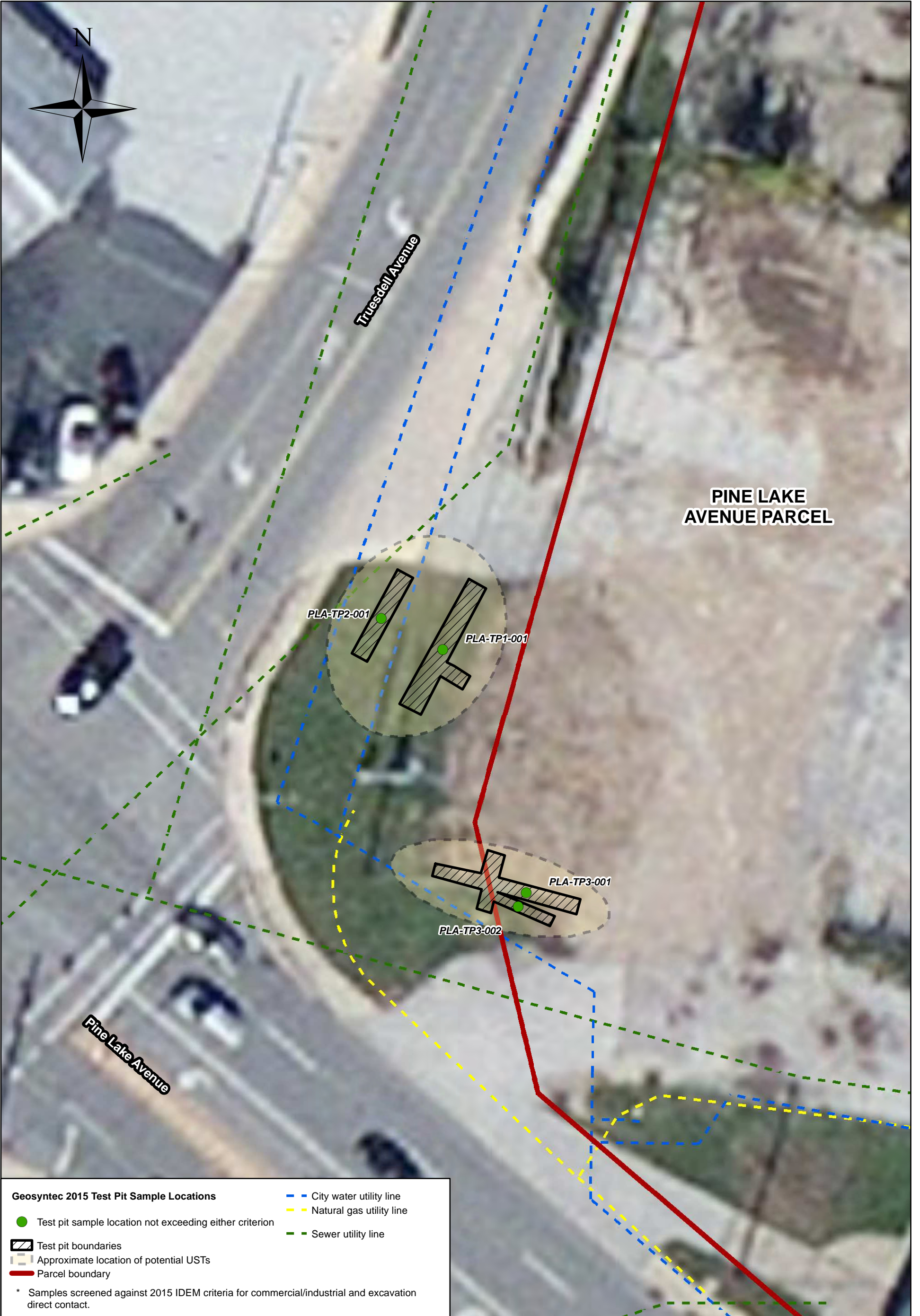
* Samples screened against 2015 IDEM criteria for tap residential and commercial/industrial vapor exposure.
**Posted results in microgram per liter (µg/L)



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Groundwater Sample Locations and Comparison to 2015 IDEM Screening Levels
NewPorte Landing Development Site
La Porte, Indiana

FIGURE
7



APPENDIX A

Historical Analytical Tables (Prepared by ENTACT)

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				RxR	RxR	RxR	RxR	RxR	George	George	George	George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	VPBH01-01	VPBH02-01	2006TNRP-SS01	2006TNRP-SS02	2006TNRP-SS03	GPMW1-01	GPMW1-02	GPMW1-02	GPMW2-01
Sample Date:					2002	2002	2006	2006	2006	2002	2002	2002	2002
Sample Depth (ft):					0-2	0-2	0-4"	0-4"	0-4"	0-2	4-6	Dup	0-2
Sampled By:					URS	URS	TN&A	TN&A	TN&A	URS	URS	URS	URS
VOCs													
1,1,1,2-Tetrachloroethane	27	93	680	0.038	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 UJ	0.0048 U
1,1,1-Trichloroethane	640	640	640	1.4	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,1,2,2-Tetrachloroethane	7.8	28	1900	0.0052	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,1,2-Trichloroethane	2.2	6.8	11	0.032	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,1,2-Trichlorotrifluoroethane													
1,1-Dichloroethane	46	170	1700	0.14	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,1-Dichloroethylene	340	1100	1200	0.05	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,2-Dibromo-3-chloropropane	0.076	0.69	44	0.0017									
1,2-Dibromoethane	0.48	1.7	180	0.00028									
1,2-Dichlorobenzene	380	380	380	12									
1,2-Dichloroethane	6	22	250	0.028	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,2-Dichloropropane	13	47	120	0.033	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,2-Dichloroethylene (cis-)	220	2000	2400	0.41	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,2-Dichloroethylene (trans-)	210	690	1200	0.59	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,2,4-Trichlorobenzene	87	270	400	4.1									
1,3-Dichlorobenzene													
1,3-Dichloropropene (cis-)	24	83	570	0.029	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,3-Dichloropropene (trans-)					0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
1,4-Dichlorobenzene	34	120	17000	1.4									
2-Hexanone	290	1400	2300	0.16									
4-Methyl-2-pentanone (MIBK)	3400	3400	3400	4.5	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Acetone (2-Propanone)	85000	100000	100000	49	0.67 J	0.0047 U				0.076	0.0055 U	0.0049 U	0.0048 U
Acrolein	0.21	0.65	1.1	0.00017	6.2 UJ	0.19 U				0.17 U	0.22 U	0.2U	0.19 U
Benzene	15	54	750	0.051	0.22 J	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Bromodichloromethane	3.8	14	930	0.43	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Bromoform	870	2200	20000	0.42	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Bromomethane	10	32	54	0.035	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Carbon disulfide	740	740	740	4.2	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Carbon tetrachloride	8.5	30	460	0.039	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Chlorobenzene	410	760	760	1.4	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Chloroethane	2100	2100	2100	120	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Chloroform	4.1	15	1800	0.44	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Chloromethane	170	500	840	0.98									
Cyclohexane	120	120	120	270									
Dibromochloromethane	9.5	33	800	0.43									
Dichlorodifluoromethane	130	400	670	5.7									
Ethylbenzene	76	270	480	16	0.37 J	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Isopropylbenzene													
Methyl Acetate	29000	29000	29000	66									

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				RxR	RxR	RxR	RxR	RxR	George	George	George	George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	VPBH01-01	VPBH02-01	2006TNRP-SS01	2006TNRP-SS02	2006TNRP-SS03	GPMW1-01	GPMW1-02	GPMW1-02	GPMW2-01
Sample Date:					2002	2002	2006	2006	2006	2002	2002	2002	2002
Sample Depth (ft):					0-2	0-2	0-4"	0-4"	0-4"	0-2	4-6	Dup	0-2
Sampled By:					URS	URS	TN&A	TN&A	TN&A	URS	URS	URS	URS
2-Butanone (MEK)	28000	28000	28000	21	0.15 UJ	0.0047 U				0.011	0.0055 U	0.0049 U	0.0048 U
Methyl-tert-butyl-ether	600	2200	8900	0.54	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Methylcyclohexane													
Methylene chloride	500	3100	3300	0.025	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
n-Butanol	8500	62000	100000	6.2	12 UJ	0.37 U				0.34 U	0.44 U	0.39 U	0.38 U
Styrene	870	870	870	2.2	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Tetrachloroethylene	120	170	170	0.045	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Toluene	820	820	820	14	1.2 J	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Xylene (total)	260	260	260	200	2.6 J	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Trichloroethylene	6.2	20	34	0.036	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Trichlorofluoromethane	1100	1200	1200	14									
Vinyl acetate	1400	2800	2800	1.7	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
Vinyl chloride	0.84	17	660	0.014	0.15 UJ	0.0047 U				0.0043 U	0.0055 U	0.0049 U	0.0048 U
TPH-GRO (C5-C12)													
Metals													
Aluminum	100000	100000	100000	480000	2200	3000	1900 QC	6230 QC	4040 QC	1900 J	5900	5000	5600
Antimony	43	410	690	5.4	1.7 U	1 J	<5.46	<5.87	<5.60	9.3 J	7.9 J	2.4 UJ	2.2 U
Arsenic	8.5	24	640	5.9	4.5	9.8	<0.539	8.63	3.39	38 J	19 J	2.1 J	8.9
Barium	21000	100000	100000	1700	44	36 J	8.08	33.9	36.8	270 J	250 J	44 J	38
Beryllium	220	2000	3300	63	0.26 J	0.23 J	<0.546	<0.587	<0.560	0.43 UJ	0.46 U	0.27 J	0.3 J
Boron	22000	100000	100000	200									
Cadmium	98	800	1300		0.48	0.41	<0.546	<0.587	<0.560	11 J	15 J	1.4 J	0.23
Calcium							441 J QC	2690 J QC	28700 J QC				
Chromium	100000	100000	100000	1000000	7.2	12 J	4.23	8.45	9.28	130 J	89 J	15 J	9.1
Cobalt	32	300	520	4.3	2.9	3.6	<0.532	6.55	<0.545	20 J	18 J	3.3 J	10
Copper	4300	41000	69000	920	54	58	6.91 QC	34.8 QC	28.2 QC	310 J	230 J	110 J	24
Iron	77000	100000	100000	5600			4990 QC	15900 QC	10400 QC				
Cyanide, free	31	140	230	40	0.15 J	0.36 U							
Lead	400	800	1000	270	37	91	4.77 QC	28.2 QC	35.9 QC	1200 J	290 J	29 J	24
Magnesium							571 J QC	2110 J QC	8970 J QC				
Manganese	2500	23000	39000	420			93 QC	198 QC	457 QC				
Mercury	3.1	3.1	3.1	2.1	0.11	0.13 J	<0.002	0.0575	<0.00242	0.31	0.25	0.25	0.024 J
Molybdenum	550	5100	8600	32	1	1.7				41	25 J	1.6 J	8.7
Nickel	2100	20000	32000	390	8.1	13	5.56	14.1	6.96	120 J	93 J	12 J	20
Potassium							227 QC	765 QC	321 QC				
Selenium	550	5100	8600	5.3	0.64 J	0.69 J	<2.73	<2.93	<2.80	5.4 UJ	0.66 J	1.2 U	0.61 J
Silver	550	5100	8600	12	0.44 U	0.45 U	<2.73	<2.93	<2.80	1.4	0.88	0.61 U	0.54 U
Sodium							<3.84	<4.12	143				
Strontium	66000	100000	10000	6600	42	27 J				16	20 J	6.1 J	6
Thallium	1.1	10	17	2.9	0.87 U	0.89 U	<5.46	<5.87	<5.60	2.3	1.8	1.2 U	1.1 U

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				RxR	RxR	RxR	RxR	RxR	George	George	George	George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	VPBH01-01	VPBH02-01	2006TNRP-SS01	2006TNRP-SS02	2006TNRP-SS03	GPMW1-01	GPMW1-02	GPMW1-02	GPMW2-01
Sample Date:					2002	2002	2006	2006	2006	2002	2002	2002	2002
Sample Depth (ft):					0-2	0-2	0-4"	0-4"	0-4"	0-2	4-6	Dup	0-2
Sampled By:					URS	URS	TN&A	TN&A	TN&A	URS	URS	URS	URS
Vanadium	550	5100	8700	1300	9.8	11	5.84	12.6	7.01	11	12	12	14
Zinc	32000	100000	100000	5900	250	160 J	22.3 QC	93.5 QC	84.3 QC	3300 J	8300 J	670 J	120
PCBs													
Arochlor 1016	5.5	37	63	2.1	0.018 U	0.017 U				0.04 U	0.04 U	0.02 U	0.019 U
Arochlor 1221	2	5.4	390	0.014	0.018 U	0.017 U				0.04 U	0.04 U	0.02 U	0.019 U
Arochlor 1232	2	5.4	73	0.014	0.018 U	0.017 U				0.04 U	0.04 U	0.02 U	0.019 U
Arochlor 1242	3.1	7.4	460	1.1	0.018 U	0.017 U				0.04 U	0.04 U	0.02 U	0.019 U
Arochlor 1248	3.1	7.4	460	1	0.018 U	0.017 U				0.04 U	0.04 U	0.02 U	0.019 U
Arochlor 1254	1.5	7.4	18	1.6	0.018 U	0.017 U				0.38	0.39 J	0.02 UJ	0.09
Arochlor 1260	3.1	7.4	460	4.8	0.018 U	0.048				0.04 U	0.04 U	0.02 U	0.019 U
SVOCs													
1,1-Biphenyl	71	210	350	0.17									
1,2,4-Trichlorobenzene	87	270	400	4.1	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
1,2-Dichlorobenzene	380	380	380	12	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
1,3-Dichlorobenzene					0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
1,4-Dichlorobenzene	34	120	17000	1.4	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2,2-Oxybis (1-chloropropane)					0.35 U	0.34 U				0.4 U	0.39 U	0.4 U	0.37 U
2,2-Oxybis (2-chloropropane)							<0.109	<0.117	<0.112				
2,4,5-Trichlorophenol	8500	62000	100000	67	1.8 U	1.8 U	<0.546	<0.587	<0.560	2.1 U	2 U	2.1 U	1.9 U
2,4,6-Trichlorophenol	85	620	1000	0.68	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2,4-Dichlorophenol	250	1800	3100	0.83	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2,4-Dimethylphenol	1700	12000	20000	6.4	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2,4-Dinitrophenol	170	1200	2000	0.67	1.8 U	1.8 U	<0.546	<0.587	<0.560	2.1 U	2 U	2.1 U	1.9 U
2,4-Dinitrotoluene	22	55	2000	0.054	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2,6-Dinitrotoluene	4.6	12	310	0.012	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2-Chloronaphthalene	8800	82000	100000	57			<0.109	<0.117	<0.112				
2-Chlorophenol	550	5100	8600	1.2	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2-Methylnaphthalene	320	2200	3700	2.8			<0.0291	<0.0313	<0.0298				
2-Methylphenol (o-cresol)	4300	31000	52000	12	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
2-Nitroaniline	850	6000	9900	1.3	1.8 U	1.8 U	<0.546	<0.587	<0.560	2.1 U	2 U	2.1 U	1.9 U
2-Nitrophenol							<0.109	<0.117	<0.112				
3,3-Dichlorobenzidine	15	38	2200	0.14	0.71 U	0.69 U	<0.546	<0.587	<0.560	0.81 U	0.8 U	0.82 U	0.75 U
3-Methylphenol													
3-Nitroaniline							<0.546	<0.587	<0.560				
4,6-Dinitro-2-methylphenol							<0.546	<0.587	<0.560				
4-Bromophenyl phenyl ether							<0.109	<0.117	<0.112				
4-Chloro-3-methylphenol							<0.109	<0.117	<0.112				
p-Chloroaniline (4-chloroaniline)	34	86	4200	0.027	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
4-Chlorophenyl phenyl ether							<0.109	<0.117	<0.112				
4-Methylphenol (p-cresol)	8500	62000	100000	22	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				RxR	RxR	RxR	RxR	RxR	George	George	George	George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	VPBH01-01	VPBH02-01	2006TNRP-SS01	2006TNRP-SS02	2006TNRP-SS03	GPMW1-01	GPMW1-02	GPMW1-02	GPMW2-01
Sample Date:					2002	2002	2006	2006	2006	2002	2002	2002	2002
Sample Depth (ft):					0-2	0-2	0-4"	0-4"	0-4"	0-2	4-6	Dup	0-2
Sampled By:					URS	URS	TN&A	TN&A	TN&A	URS	URS	URS	URS
4-Nitroaniline	340	860	4200	0.28			<0.546	<0.587	<0.560				
4-Nitrophenol							<0.546	<0.587	<0.560				
Acenaphthene	4800	33000	55000	82	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Acenaphthylene							<0.0232	<0.0249	0.147				
Acetophenone													
Anthracene	24000	100000	100000	860	0.24 J	0.45	<0.0255	<0.0273	0.138	0.32 J	0.39 U	0.14 J	0.37 U
Atrazine	29	75	4200	0.039									
Benzaldehyde	1200	1200	1200	6.7									
Benzidine	0.007	0.075	4.2	0.000047									
Benz(a)anthracene	2.1	21	1300	2.1	1.9	1.1 J	<0.021	<0.0226	0.902	1.4	0.39 U	0.33 J	0.37 U
Benzo(a)pyrene	0.21	2.1	130	4.7	1.8	1.8 J	<0.0213	0.104	0.995	1.3	0.39 U	0.3 J	0.37 U
Benzo(b)fluoranthene	2.1	21	1300	7	2.9	3.1 J	<0.0219	0.135	1.24	1.6	0.39 U	0.25 J	0.37 U
Benzo(g,h,i)perylene							<0.0198	<0.0213	0.526				
Benzo(k)fluoranthene	21	210	13000	68	1.6	1.7 J	<0.024	<0.0258	1.04	1	0.39 U	0.29 J	0.37 U
Benzoic acid	100000	100000	100000	270	1.8 U	1.8 U				2.1 U	2 U	2.1 U	1.9 U
Benzyl alcohol	8500	62000	100000	7.3	0.35 U	0.34 U				0.4 U	0.39 U	0.4 U	0.37 U
Bis(2-chloroethoxy)methane	250	1800	3100	0.21			<0.109	<0.117	<0.112				
Bis(2-chloroethyl)ether	2.9	10	750	0.00063	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Bis(2-chloroisopropyl)ether													
Bis(2-ethylhexyl)phthalate	490	1200	20000	29	0.35 U	0.34 U	<0.0269	<0.0288	<0.0275	0.34 J	0.39 U	0.4 U	0.37 U
Butylbenzylphthalate	3600	9100	100000	41	0.35 U	0.34 U	<0.361	<0.387	<0.370	0.4 U	0.39 U	0.4 U	0.37 U
Caprolactam	42000	100000	100000	38									
Carbazole					0.5	0.5	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 UJ	0.37 U
Chrysene	210	2100	100000	210	2.2	1.6 J	<0.0188	0.12	0.987	1.6	0.39 U	0.44	0.37 U
Dibenz(a,h)anthracene	0.21	2.1	130	2.2	0.43	0.61	<0.0208	<0.0223	0.142	0.35 J	0.39 U	0.4 U	0.37 U
Dibenzofuran	110	1000	1700	2.1	0.21 J	0.17 J	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Di-n-butyl phthalate	8500	62000	100000	34	0.35 U	0.34 U	<0.361	<0.387	<0.370	0.14 J	0.39 U	0.4 UJ	0.37 U
Diethylphthalate	69000	100000	100000	90	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 UJ	0.37 U
Dimethylphthalate					0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Di-n-octyl phthalate					0.35 U	0.34 U	<0.361	<0.387	<0.370	0.4 U	0.39 U	0.4 UJ	0.37 U
Fluoranthene	3200	22000	37000	1400	2.7	1.5 J	<0.0249	0.199	1.88	2.1	0.39 U	0.64	0.37 U
Fluorene	3200	22000	37000	81	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 UJ	0.37 U
Hexachlorobutadiene	85	220	1000	0.1	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Hexachlorobenzene	4.2	11	630	0.25	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 UJ	0.37 U
Hexachlorocyclopentadiene	520	3700	6200	3.1	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 UJ	0.37 U
Hexachloroethane	60	430	730	0.062	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Indeno(1,2,3-cd)pyrene	2.1	21	1300	40	0.93	1.4 J	<0.0208	0.203	0.727	0.87	0.39 U	0.18 J	0.37 U
Isophorone	7100	18000	100000	4.4	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Napthalene	50	180	1000	0.092	0.54	0.25 J	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Nitrobenzene	67	240	2000	0.016	0.35 U	0.34 U	<0.0765	<0.0822	<0.0784	0.4 U	0.39 U	0.4 U	0.37 U

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				RxR	RxR	RxR	RxR	RxR	George	George	George	George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	VPBH01-01	VPBH02-01	2006TNRP-SS01	2006TNRP-SS02	2006TNRP-SS03	GPMW1-01	GPMW1-02	GPMW1-02	GPMW2-01
Sample Date:					2002	2002	2006	2006	2006	2002	2002	2002	2002
Sample Depth (ft):					0-2	0-2	0-4"	0-4"	0-4"	0-2	4-6	Dup	0-2
Sampled By:					URS	URS	TN&A	TN&A	TN&A	URS	URS	URS	URS
N-Nitrosodi-n-propylamine	0.97	2.5	140	0.0014	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
N-nitrosodiphenylamine	1400	3500	100000	11	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Pentachlorophenol	12	27	2000	0.2	1.8 U	1.8 U	<0.546	<0.587	<0.560	2.1 U	2 U	2.1 UJ	1.9 U
Phenanthrene					0.8	0.6	<0.0256	<0.0275	0.506	1.4	0.39 U	0.69	0.37 U
Phenol	25000	100000	100000	52	0.35 U	0.34 U	<0.109	<0.117	<0.112	0.4 U	0.39 U	0.4 U	0.37 U
Pyrene	2400	17000	28000	190	2.4	1.6 J	<0.0231	0.157	1.39	2.4	0.39 U	0.73	0.37 U
Pesticides/Herbicides													
4,4'-DDD	28	72	4200	1.3	0.009 U	0.0089 U							
4,4'-DDE	20	51	3000	9.4	0.009 U	0.0089 U							
4,4'-DDT	24	70	720	13	0.009 U	0.0089 U							
Aldrin	0.41	1	31	0.13	0.009 U	0.0089 U							
alpha-HCH (alpha-BHC)	1.1	2.7	160	0.0072	0.009 U	0.0089 U							
alpha-Chlordane					0.009 U	0.0089 U							
beta-HCH (beta-BHC)	3.8	9.6	560	0.026	0.009 U	0.0089 U							
Chlordane	22	65	680	2.7	0.017 U	0.017 U							
Dieldrin	0.42	1.1	52	0.012	0.009 U	0.0089 U							
Endosulfan (Endosulfan I)					0.009 U	0.0089 U							
Endosulfan (Endosulfan II)					0.009 U	0.0089 U							
Endosulfan sulfate													
Endrin	25	180	310	1.6	0.009 U	0.0089 U							
Endrin aldehyde													
Endrin ketone													
gamma-HCH (Lindane)	7.3	21	410	0.023	0.009 U	0.0089 U							
gamma-Chlordane					0.009 U	0.0089 U							
Heptachlor	1.5	3.8	220	0.66	0.009 U	0.0089 U							
Heptachlor epoxide	0.74	1.9	13	0.082	0.009 U	0.0089 U							
Methoxychlor	430	3100	5200	43	0.044 U	0.043 U							
Toxaphene	6.2	16	910	9.3	0.088 U	0.087 U							
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	850	6200	10000	0.99	0.035 U	0.035 U							
2,4,5-TP (Silvex)	690	4900	8200	0.55	0.035 U	0.035 U							
2,4-Dichlorophenoxyacetic acid (2,4-D)	970	7700	13000	0.36	0.35 U	0.35 U							
2,4-DB	690	4900	8200	0.72	0.35 U	0.35 U							
Dalapon	2500	18000	31000	0.83	0.35 U	0.35 U							
Dicamba	2500	18000	31000	2.3	0.035 U	0.035 U							
Dichloroprop					0.35 U	0.35 U							
Dinoseb	85	620	1000	1.2	0.035 U	0.035 U							
pH					7.8 J	7.7 J				6.9	7.1	6.6	8.4

Notes:

Red indicates value exceeds IDEM direct contact screening level for commercial/industrial use (2014)

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				RxR	RxR	RxR	RxR	RxR	George	George	George	George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	VPBH01-01	VPBH02-01	2006TNRP-SS01	2006TNRP-SS02	2006TNRP-SS03	GPMW1-01	GPMW1-02	GPMW1-02	GPMW2-01
Sample Date:					2002	2002	2006	2006	2006	2002	2002	2002	2002
Sample Depth (ft):					0-2	0-2	0-4"	0-4"	0-4"	0-2	4-6	Dup	0-2
Sampled By:					URS	URS	TN&A	TN&A	TN&A	URS	URS	URS	URS

Yellow indicates value exceeds IDEM soil migration to GW screening level (2014)

U: Not detected. Value shown is the reporting limit.

J: Estimated concentration as the result was below the sample reporting limit or quality control criteria were not met.

UJ: Not detected at or above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of reporting necessary to accurately measure the analyte in the sample.

R: Rejected data.

B: Analyte was found in blank and sample.

* Duplicate analysis not within control limits.

Samples not analyzed for this analyte.

QC: The result for 1 or more QC measurements associated with this sample did not meet lab and/or source method acceptance criteria.

A: Concentration of analyte detected in sample is characteristic of a lab artifact.

<: Less than the method detection limit.

Blank unshaded cell: Analysis was run and result is assumed to be non-detect.

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George	George	George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPMW2-02	GP-3	GP-4	GP-5	GP-5 DUP	GP-6	GP-7	GP-8	LT-GP01	LT-GP01-DUP	LT-GP06		
Sample Date:					2002	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	11/10/09	11/10/09	11/10/09
Sample Depth (ft):					4-6	4-5	4-5	3-4	3-4	1-3	3-4	4-5	1.5-3	Duplicate	3-4		
Sampled By:					URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	
VOCs																	
1,1,1,2-Tetrachloroethane	27	93	680	0.038	0.0049 U												
1,1,1-Trichloroethane	640	640	640	1.4	0.0049 U	<0.00016	<0.00019	<0.019	<0.00026	<0.00034	<0.00021	<0.00018	0.00019 U	0.00021 U	0.0039 U		
1,1,2,2-Tetrachloroethane	7.8	28	1900	0.0052	0.0049 U	<0.00011	<0.00013	<0.012	<0.00017	<0.00022	<0.00014	<0.00011	0.00029 U	0.00031 U	0.0057 U		
1,1,2-Trichloroethane	2.2	6.8	11	0.032	0.0049 U	<0.00014	<0.00017	<0.017	<0.00023	<0.00030	<0.00018	<0.00015	0.0003 U	0.00033 U	0.006 U		
1,1,2-Trichlorotrifluoroethane						<0.00021	<0.00025	<0.024	<0.00033	<0.00043	<0.00027	<0.00022					
1,1-Dichloroethane	46	170	1700	0.14	0.0049 U	<0.00019	<0.00023	<0.022	<0.00030	<0.00040	<0.00025	<0.00020	0.00027 U	0.00029 U	0.0053 U		
1,1-Dichloroethylene	340	1100	1200	0.05	0.0049 U	<0.00017	<0.00020	<0.020	<0.00027	<0.00035	<0.00022	<0.00018	0.0011 J	0.00093 J	0.0052 U		
1,2-Dibromo-3-chloropropane	0.076	0.69	44	0.0017		<0.00015	<0.00017	<0.017	<0.00024	<0.00031	<0.00019	<0.00016					
1,2-Dibromoethane	0.48	1.7	180	0.00028		<0.00015	<0.00018	<0.018	<0.00024	<0.00032	<0.00020	<0.00016					
1,2-Dichlorobenzene	380	380	380	12		<0.00015	<0.00018	<0.018	<0.00024	<0.00032	<0.00020	<0.00016					
1,2-Dichloroethane	6	22	250	0.028	0.0049 U	<0.00021	<0.00024	<0.024	<0.00033	<0.00043	<0.00027	<0.00022	0.00032 U	0.00034 U	0.0063 U		
1,2-Dichloropropane	13	47	120	0.033	0.0049 U	<0.00019	<0.00023	<0.023	<0.00031	<0.00040	<0.00025	<0.00021	0.00024 U	0.00026 U	0.0048 U		
1,2-Dichloroethylene (cis-)	220	2000	2400	0.41	0.0049 U	<0.00022	<0.00026	<0.026	<0.00035	<0.00046	0.00073 J	<0.00024	0.13 J	0.26 J	0.0039 U		
1,2-Dichloroethylene (trans-)	210	690	1200	0.59	0.0049 U	<0.00022	<0.00026	<0.026	<0.00035	<0.00045	<0.00028	<0.00023	0.068	0.051	0.0061 U		
1,2,4-Trichlorobenzene	87	270	400	4.1		<0.00015	<0.00018	<0.018	<0.00025	<0.00032	<0.0002	<0.00016	0.00097 U	0.001 U	0.019 U		
1,3-Dichlorobenzene						<0.00014	<0.00017	<0.016	<0.00022	<0.00029	<0.00018	<0.00015					
1,3-Dichloropropene (cis-)	24	83	570	0.029	0.0049 U	<0.00013	<0.00016	<0.016	<0.00021	<0.00028	<0.00017	<0.00014					
1,3-Dichloropropene (trans-)					0.0049 U	<0.00014	<0.00016	<0.016	<0.00022	<0.00029	<0.00018	<0.00015					
1,4-Dichlorobenzene	34	120	17000	1.4		<0.00016	<0.00019	<0.018	<0.00025	<0.00033	<0.00020	<0.00017					
2-Hexanone	290	1400	2300	0.16		<0.00022	<0.00027	<0.026	<0.00036	<0.00047	<0.00029	<0.00024					
4-Methyl-2-pentanone (MIBK)	3400	3400	3400	4.5	0.0049 U	<0.00015	<0.00017	<0.017	<0.00024	<0.00031	<0.00019	<0.00016	0.00087 U	0.00094 U	0.018 U		
Acetone (2-Propanone)	85000	100000	100000	49	0.018	0.056	0.019	0.34	0.014	0.017	0.02	0.039	0.008 J	0.0053 J	0.039 U		
Acrolein	0.21	0.65	1.1	0.00017	0.19 U												
Benzene	15	54	750	0.051	0.0049 U	0.00065 J	0.00024 J	0.044	<0.00030	<0.00039	0.00029 J	<0.0002	0.00029 U	0.00031 U	0.0058 U		
Bromodichloromethane	3.8	14	930	0.43	0.0049 U	<0.00015	<0.00018	<0.018	<0.00025	<0.00032	<0.00020	<0.00016	0.00023 U	0.00025 U	0.0046 U		
Bromoform	870	2200	20000	0.42	0.0049 U	<0.00011	<0.00014	<0.013	<0.00018	<0.00024	<0.00015	<0.00012	0.00025 U	0.00027 U	0.0049 U		
Bromomethane	10	32	54	0.035	0.0049 U	<0.00026	<0.00031	<0.031	<0.00042	<0.00055	<0.00034	<0.00028	0.0018 U	0.0019 U	0.036 U		
Carbon disulfide	740	740	740	4.2	0.0049 U	0.0058	<0.00033	<0.032	<0.00044	<0.00057	<0.00035	0.0013 J	0.006 U	0.0064 U	0.011 U		
Carbon tetrachloride	8.5	30	460	0.039	0.0049 U	<0.00015	<0.00018	<0.018	<0.00024	<0.00032	<0.00020	<0.00016	0.00054 U	0.00058 U	0.011 U		
Chlorobenzene	410	760	760	1.4	0.0049 U	<0.00017	<0.00020	<0.019	<0.00026	<0.00034	<0.00021	<0.00018	0.00047 U	0.00051 U	0.0095 U		
Chloroethane	2100	2100	2100	120	0.0049 U	<0.00042	<0.00050	<0.049	<0.00067	<0.00087	<0.00054	<0.00045	0.0016 U	0.0017 U	0.031 U		
Chloroform	4.1	15	1800	0.44	0.0049 U	<0.00020	<0.00023	<0.023	<0.00031	<0.00041	<0.00025	<0.00021	0.00025 U	0.00027 U	0.005 U		
Chloromethane	170	500	840	0.98		<0.00023	<0.00027	<0.027	<0.00037	<0.00048	<0.00029	<0.00024					
Cyclohexane	120	120	120	270		<0.00024	<0.00028	0.16	<0.00038	<0.00050	0.00073 J	<0.00025					
Dibromochloromethane	9.5	33	800	0.43		<0.00013	<0.00015	<0.015	<0.00020	<0.00026	<0.00016	<0.00013					
Dichlorodifluoromethane	130	400	670	5.7		<0.00025	<0.00029	<0.029	<0.00040	<0.00052	<0.00032	<0.00026					
Ethylbenzene	76	270	480	16	0.0049 U	<0.00014	<0.00017	0.049 J	<0.00023	<0.00030	<0.00019	<0.00015	0.00047 U	0.00051 U	0.0095 U		
Isopropylbenzene						0.0032 J	<0.00017	<0.017	<0.00023	<0.00030	<0.00019	<0.00019					
Methyl Acetate	29000	29000	29000	66		<0.00060	<0.00071	0.14 J	<0.00096	<0.0012	<0.00077	<0.00064					

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George	George	George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern		
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPMW2-02	GP-3	GP-4	GP-5	GP-5 DUP	GP-6	GP-7	GP-8	LT-GP01	LT-GP01-DUP	LT-GP06			
Sample Date:					2002	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	11/10/09	11/10/09	11/10/09
Sample Depth (ft):					4-6	4-5	4-5	3-4	3-4	1-3	3-4	4-5	1.5-3	Duplicate	3-4			
Sampled By:					URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS
2-Butanone (MEK)	28000	28000	28000	21	0.0055	0.014	<0.00068	<0.067	<0.00092	<0.0012	0.0047 J	0.0069 J	0.00049 U	0.00053 U	0.0099 U			
Methyl-tert-butyl-ether	600	2200	8900	0.54	0.0049 U	<0.00019	<0.00022	<0.022	<0.00030	<0.00039	<0.00024	<0.00020	0.00074 U	0.0008 U	0.015 U			
Methylcyclohexane						0.0011 J	<0.00025	0.38	0.0080 J	<0.00043	0.0012 J	<0.00022						
Methylene chloride	500	3100	3300	0.025	0.0049 U	<0.00021	<0.00025	<0.025	<0.00034	<0.00044	<0.00027	<0.00023	0.00066 U	0.00071 U	0.013 U			
n-Butanol	8500	62000	100000	6.2	0.39 U													
Styrene	870	870	870	2.2	0.0049 U	<0.00014	<0.00016	<0.016	<0.00022	<0.00028	<0.00017	<0.00014	0.00043 U	0.00046 U	0.0086 U			
Tetrachloroethylene	120	170	170	0.045	0.0049 U	<0.00022	<0.00027	<0.026	<0.00036	<0.00047	0.0019 J	<0.00024	0.00043 U	0.00046 U	0.0085 U			
Toluene	820	820	820	14	0.0049 U	0.0085	<0.00021	0.21	<0.00028	<0.00037	<0.00023	<0.00019	0.00035 U	0.00038 U	0.0071 U			
Xylene (total)	260	260	260	200	0.0049 U	0.0045	<0.00051	0.22	<0.00069	<0.00089	<0.00055	<0.00046	0.0014 U	0.0015 U	0.027 U			
Trichloroethylene	6.2	20	34	0.036	0.0049 U	<0.00017	<0.00021	<0.020	<0.00028	<0.00036	0.0023 J	<0.00019	0.29 J	0.73 J	0.016 J			
Trichlorofluoromethane	1100	1200	1200	14		<0.00087	<0.001	<0.10	<0.0014	<0.0018	<0.0011	<0.00092						
Vinyl acetate	1400	2800	2800	1.7	0.0049 U													
Vinyl chloride	0.84	17	660	0.014	0.0049 U	<0.00023	<0.00027	<0.027	<0.00036	<0.00047	<0.00029	<0.00024	0.0014 J	0.0011 J	0.0061 U			
TPH-GRO (C5-C12)																		
Metals																		
Aluminum	100000	100000	100000	480000	2400													
Antimony	43	410	690	5.4	2.1 U													
Arsenic	8.5	24	640	5.9	4.1	5.3	6.7	6.8	4.3	6.7	9.6	5.6	0.77	0.85	3.2 J			
Barium	21000	100000	100000	1700	34	93	31	65	31	27	68	21	14	17	11 J			
Beryllium	220	2000	3300	63	0.11 J													
Boron	22000	100000	100000	200														
Cadmium	98	800	1300		0.31	2.2	0.21	0.45	0.22	0.12 J	0.52	0.16	0.23 U	0.084 J	0.46			
Calcium																		
Chromium	100000	100000	100000	1000000	4	110	7.4	9.3	6.6	13	9.5	6.9	4	4.4	7.3 J			
Cobalt	32	300	520	4.3	3.5													
Copper	4300	41000	69000	920	13													
Iron	77000	100000	100000	5600														
Cyanide, free	31	140	230	40														
Lead	400	800	1000	270	15	500	49	56	25	13	130	12	5.8	6.4	41 J			
Magnesium																		
Manganese	2500	23000	39000	420														
Mercury	3.1	3.1	3.1	2.1	0.013 J	0.17	0.087	0.06	0.066	0.025	1.5	0.025	0.037 J	0.019 J	0.049			
Molybdenum	550	5100	8600	32	2.8													
Nickel	2100	20000	32000	390	9.2													
Potassium																		
Selenium	550	5100	8600	5.3	1.2	0.64	0.61	0.79	0.54	0.65	0.62	0.51	0.25 J	0.37 J	0.52 J			
Silver	550	5100	8600	12	0.52 U	0.052 J	0.027 J	0.042 J	0.025 J	0.014 J	0.048 J	0.0092 J	0.038 J	0.068 J	0.028 J			
Sodium																		
Strontium	66000	100000	10000	6600	31													
Thallium	1.1	10	17	2.9	1 U													

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George	George	George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPMW2-02	GP-3	GP-4	GP-5	GP-5 DUP	GP-6	GP-7	GP-8	LT-GP01	LT-GP01-DUP	LT-GP06		
Sample Date:					2002	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	11/10/09	11/10/09	11/10/09
Sample Depth (ft):					4-6	4-5	4-5	3-4	3-4	1-3	3-4	4-5	1.5-3	Duplicate	3-4		
Sampled By:					URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS		
Vanadium	550	5100	8700	1300	5.5												
Zinc	32000	100000	100000	5900	140												
PCBs																	
Arochlor 1016	5.5	37	63	2.1	0.019 U								0.014 U	0.015 U	0.014 U		
Arochlor 1221	2	5.4	390	0.014	0.019 U								0.014 U	0.015 U	0.014 U		
Arochlor 1232	2	5.4	73	0.014	0.019 U								0.014 U	0.015 U	0.014 U		
Arochlor 1242	3.1	7.4	460	1.1	0.019 U								0.014 U	0.015 U	0.014 U		
Arochlor 1248	3.1	7.4	460	1	0.019 U								0.014 U	0.015 U	0.014 U		
Arochlor 1254	1.5	7.4	18	1.6	0.031								0.014 U	0.015 U	0.014 U		
Arochlor 1260	3.1	7.4	460	4.8	0.019 U								0.014 U	0.015 U	0.014 U		
SVOCs																	
1,1-Biphenyl	71	210	350	0.17		<0.12	<0.0055	<0.0055	<0.0057	<0.0057	0.064 J	0.060 J					
1,2,4-Trichlorobenzene	87	270	400	4.1	0.37 U												
1,2-Dichlorobenzene	380	380	380	12	0.37 U								0.011 U	0.011 U	0.011 U		
1,3-Dichlorobenzene					0.37 U								0.0091 U	0.009 U	0.0091 U		
1,4-Dichlorobenzene	34	120	17000	1.4	0.37 U								0.011 U	0.011 U	0.011 U		
2,2-Oxybis (1-chloropropane)					0.37 U												
2,2-Oxybis (2-chloropropane)																	
2,4,5-Trichlorophenol	8500	62000	100000	67	1.9 U	<0.19	<0.0088	<0.0089	<0.0091	<0.0091	<0.0088	<0.0090	0.0099 U	0.0099 U	0.01 U		
2,4,6-Trichlorophenol	85	620	1000	0.68	0.37 U	<0.19	<0.0088	<0.0089	<0.0091	<0.0091	<0.0088	<0.0090	0.0066 U	0.0066 U	0.0066 U		
2,4-Dichlorophenol	250	1800	3100	0.83	0.37 U	<0.24	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.01 U	0.01 U	0.01 U		
2,4-Dimethylphenol	1700	12000	20000	6.4	0.37 U	<0.99	<0.045	<0.045	<0.047	<0.047	<0.045	<0.046	0.02 U	0.02 U	0.021 U		
2,4-Dinitrophenol	170	1200	2000	0.67	1.9 U	<1.0	<0.047	<0.047	<0.048	<0.048	<0.047	<0.048	0.036 U	0.036 U	0.036 U		
2,4-Dinitrotoluene	22	55	2000	0.054	0.37 U	<0.22	<0.0099	<0.010	<0.010	<0.010	<0.0099	<0.010					
2,6-Dinitrotoluene	4.6	12	310	0.012	0.37 U	<0.23	<0.010	<0.010	<0.011	<0.011	<0.010	<0.011					
2-Chloronaphthalene	8800	82000	100000	57		<0.22	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.01 U	0.01 U	0.01 U		
2-Chlorophenol	550	5100	8600	1.2	0.37 U	<0.22	<0.0099	<0.010	<0.010	<0.010	<0.0099	<0.010	0.011 U	0.011 U	0.011 U		
2-Methylnaphthalene	320	2200	3700	2.8		<0.24	<0.011	0.055 J	0.062 J	0.017 J	0.038 J	<0.011	0.011 U	0.011 U	0.011 U		
2-Methylphenol (o-cresol)	4300	31000	52000	12	0.37 U	<0.23	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.012 U	0.012 U	0.012 U		
2-Nitroaniline	850	6000	9900	1.3	1.9 U	<0.18	<0.0084	<0.0085	<0.0087	<0.0087	<0.0084	<0.0086	0.0088 U	0.0087 U	0.0088 U		
2-Nitrophenol						<0.21	<0.0096	<0.0097	<0.0099	<0.0099	<0.0096	<0.0098					
3,3-Dichlorobenzidine	15	38	2200	0.14	0.75 U	<0.23	<0.010	<0.010	<0.011	<0.011	<0.010	<0.011	0.025 U	0.025 U	0.51 U		
3-Methylphenol													0.012 U	0.012 U	0.012 U		
3-Nitroaniline						<0.20	<0.090	<0.091	<0.093	<0.093	<0.090	<0.091					
4,6-Dinitro-2-methylphenol						<1.20	<0.053	<0.054	<0.055	<0.055	<0.053	<0.054					
4-Bromophenyl phenyl ether						<0.21	<0.0096	<0.0097	<0.0099	<0.0099	<0.0096	<0.0098					
4-Chloro-3-methylphenol						<0.22	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010					
p-Chloroaniline (4-chloroaniline)	34	86	4200	0.027	0.37 U	<0.31	<0.014	<0.014	<0.015	<0.015	<0.014	<0.014	0.018 U	0.018 U	0.018 U		
4-Chlorophenyl phenyl ether						<0.22	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010					
4-Methylphenol (p-cresol)	8500	62000	100000	22	0.37 U	<0.24	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	0.012 U	0.012 U	0.012 U		

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George	George	George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPMW2-02	GP-3	GP-4	GP-5	GP-5 DUP	GP-6	GP-7	GP-8	LT-GP01	LT-GP01-DUP	LT-GP06		
Sample Date:					2002	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	11/10/09	11/10/09	11/10/09
Sample Depth (ft):					4-6	4-5	4-5	3-4	3-4	1-3	3-4	4-5	1.5-3	Duplicate	3-4		
Sampled By:					URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS		
4-Nitroaniline	340	860	4200	0.28		<0.36	<0.016	<0.016	<0.017	<0.017	<0.016	<0.017					
4-Nitrophenol						<0.98	<0.045	<0.045	<0.046	<0.046	<0.045	<0.046					
Acenaphthene	4800	33000	55000	82	1.1	<0.22	<0.010	<0.010	<0.010	<0.010	0.016 J	<0.010	0.0058 U	0.0058 U	0.0059 U		
Acenaphthylene						<0.23	<0.010	<0.011	<0.011	<0.011	0.062	<0.011	0.0021 U	0.0021 U	0.0021 U		
Acetophenone						<0.12	<0.0055	<0.0056	<0.0057	<0.0057	<0.0055	<0.0056					
Anthracene	24000	100000	100000	860	1.9	<0.25	<0.011	<0.011	<0.012	<0.012	0.066	<0.011	0.0018 U	0.0018 U	0.0018 U		
Atrazine	29	75	4200	0.039		<0.25	<0.011	<0.011	<0.012	<0.012	<0.011	<0.011					
Benzaldehyde	1200	1200	1200	6.7		<0.31	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014					
Benzidine	0.007	0.075	4.2	0.000047													
Benz(a)anthracene	2.1	21	1300	2.1	4.8	<0.30	0.033	0.038	0.043	0.018 J	0.34	<0.014	0.0032 U	0.0032 U	0.065 U		
Benzo(a)pyrene	0.21	2.1	130	4.7	4.7	<0.37	0.065	0.033 J	0.065	0.037	0.31	<0.017	0.045	0.044	0.051 U		
Benzo(b)fluoranthene	2.1	21	1300	7	4.3	<0.39	0.056	0.045	0.074	0.020 J	0.51	<0.018	0.0055 U	0.0055 U	0.11 U		
Benzo(g,h,i)perylene						<0.57	0.056	0.032 J	0.061	<0.027	0.12	<0.026	0.057	0.053	0.048		
Benzo(k)fluoranthene	21	210	13000	68	4.1	<0.33	0.027 J	<0.015	0.027 J	<0.016	0.17	<0.015	0.068	0.067	0.095 U		
Benzoic acid	100000	100000	100000	270	1.9 U												
Benzyl alcohol	8500	62000	100000	7.3	0.37 U												
Bis(2-chloroethoxy)methane	250	1800	3100	0.21		<0.20	<0.0091	<0.0091	<0.0094	<0.0094	<0.0091	<0.0092					
Bis(2-chloroethyl)ether	2.9	10	750	0.00063	0.37 U	<0.20	<0.0092	<0.0093	<0.0095	<0.0095	<0.0092	<0.0094	0.0099 U	0.0099 U	0.01 U		
Bis(2-chloroisopropyl)ether						<0.19	<0.0086	<0.0087	<0.0089	<0.0089	<0.0086	<0.0088	0.013 U	0.013 U	0.013 U		
Bis(2-ethylhexyl)phthalate	490	1200	20000	29	0.37 U	<0.24	<0.011	0.067 J	<0.011	0.037 J	0.011 J	<0.011	0.38 UJ	0.38 UJ	0.47 U		
Butylbenzylphthalate	3600	9100	100000	41	0.37 U	<0.34	<0.015	<0.015	<0.016	<0.016	<0.015	<0.016	0.004 U	0.004 U	0.08 U		
Caprolactam	42000	100000	100000	38		<0.35	<0.016	<0.016	<0.017	<0.017	<0.016	<0.016					
Carbazole					0.93	<0.28	<0.013	<0.013	<0.013	<0.013	0.039 J	<0.013	0.011 U	0.011 U	0.011 U		
Chrysene	210	2100	100000	210	4.4	<0.27	0.034	0.047	0.05	0.018 J	0.36	<0.013	0.0022 U	0.0022 U	0.044 U		
Dibenz(a,h)anthracene	0.21	2.1	130	2.2	0.92	<0.41	<0.019	<0.019	<0.019	<0.019	0.030 J	<0.019	0.075	0.074	0.061 U		
Dibenzofuran	110	1000	1700	2.1	0.36 J	<0.22	<0.010	0.019 J	0.017 J	<0.010	0.026 J	<0.010	0.0096 U	0.0096 U	0.0096 U		
Di-n-butyl phthalate	8500	62000	100000	34	0.37 U	0.61 J	0.022 J	<0.011	0.026 J	0.022 J	<0.011	<0.011	0.0057 U	0.0057 U	0.0057 U		
Diethylphthalate	69000	100000	100000	90	0.37 U	<0.20	<0.0092	<0.0093	<0.0095	<0.0095	<0.0092	<0.0093	0.0026 U	0.0026 U	0.0026 U		
Dimethylphthalate					0.37 U	<0.20	<0.0092	<0.0093	<0.0095	<0.0095	<0.0092	<0.0094	0.01 U	0.01 U	0.01 U		
Di-n-octyl phthalate					0.37 U	<0.30	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	0.042 J	0.044 J	0.11 U		
Fluoranthene	3200	22000	37000	1400	5.1	0.89	0.073	0.049	0.093	0.048	0.66	0.034 J	0.063	0.063	0.0028 U		
Fluorene	3200	22000	37000	81	0.78	<0.21	<0.0097	<0.0097	<0.010	<0.010	0.026 J	<0.0098	0.0022 U	0.0022 U	0.0022 U		
Hexachlorobutadiene	85	220	1000	0.1	0.37 U	<0.20	<0.0093	<0.0094	<0.0096	<0.0096	<0.0093	<0.0095	0.012 U	0.012 U	0.012 U		
Hexachlorobenzene	4.2	11	630	0.25	0.37 U	<0.22	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.011 U	0.011 U	0.011 U		
Hexachlorocyclopentadiene	520	3700	6200	3.1	0.37 U	<0.85	<0.039	<0.039	<0.040	<0.040	<0.039	<0.039	0.0045 U	0.0045 U	0.0045 U		
Hexachloroethane	60	430	730	0.062	0.37 U	<0.21	<0.0097	<0.0097	<0.010	<0.010	<0.0097	<0.0098	0.012 U	0.012 U	0.012 U		
Indeno(1,2,3-cd)pyrene	2.1	21	1300	40	2.3	<0.46	0.039	0.022 J	0.042	<0.022	0.09	<0.021	0.029 J	0.026 J	0.056 U		
Isophorone	7100	18000	100000	4.4	0.37 U	<0.21	<0.0096	<0.0097	<0.0099	<0.0099	<0.0096	<0.0098	0.013 U	0.013 U	0.013 U		
Napthalene	50	180	1000	0.092	0.6	0.37 J	<0.0094	0.028 J	0.037	<0.0097	0.028 J	<0.0096	0.0021 U	0.0021 U	0.0021 U		
Nitrobenzene	67	240	2000	0.016	0.37 U	<0.21	<0.0096	<0.0096	<0.0099	<0.0099	<0.0096	<0.0097	0.011 U	0.011 U	0.011 U		

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.:	IDEM Screening Levels (2014)				George	George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern
	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPMW2-02	GP-3	GP-4	GP-5	GP-5 DUP	GP-6	GP-7	GP-8	LT-GP01	LT-GP01-DUP	LT-GP06
Sample Date:					2002	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	11/10/09	11/10/09	11/10/09
Sample Depth (ft):					4-6	4-5	4-5	3-4	3-4	1-3	3-4	4-5	1.5-3	Duplicate	3-4
Sampled By:					URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS
N-Nitrosodi-n-propylamine	0.97	2.5	140	0.0014	0.37 U	<0.21	<0.0097	<0.0097	<0.010	<0.010	<0.0097	<0.0098	0.011 U	0.011 U	0.011 U
N-nitrosodiphenylamine	1400	3500	100000	11	0.37 U	<1.4	<0.066	<0.066	<0.068	<0.068	<0.066	<0.067	0.0084 U	0.0084 U	0.0084 U
Pentachlorophenol	12	27	2000	0.2	1.9 U	<0.36	<0.016	<0.016	<0.017	<0.017	<0.016	<0.017	0.016 U	0.016 U	0.016 U
Phenanthrene					4.8	<0.73	<0.033	<0.033	0.075	0.05	0.49	<0.034	0.0017 U	0.0017 U	0.077
Phenol	25000	100000	100000	52	0.37 U	<0.21	<0.0094	<0.0094	<0.0097	<0.0097	<0.0094	<0.0095	0.01 U	0.01 U	0.01 U
Pyrene	2400	17000	28000	190	8.3	0.45 J	0.045	0.05	0.059	0.023 J	0.74	<0.014	0.0025 U	0.0025 U	0.051 U
Pesticides/Herbicides															
4,4'-DDD	28	72	4200	1.3									0.00089 U	0.00094 U	0.0018 U
4,4'-DDE	20	51	3000	9.4									0.00063 U	0.00066 U	0.0013 U
4,4'-DDT	24	70	720	13									0.00081 U	0.00086 U	0.0016 U
Aldrin	0.41	1	31	0.13									0.00089 U	0.00094 U	0.0018 U
alpha-HCH (alpha-BHC)	1.1	2.7	160	0.0072									0.00089 U	0.00094 U	0.0018 U
alpha-Chlordane															
beta-HCH (beta-BHC)	3.8	9.6	560	0.026									0.002 U	0.0021 U	0.004 U
Chlordane	22	65	680	2.7											
Dieldrin	0.42	1.1	52	0.012									0.00068 U	0.00072 U	0.0014 U
Endosulfan (Endosulfan I)															
Endosulfan (Endosulfan II)															
Endosulfan sulfate															
Endrin	25	180	310	1.6									0.00081 U	0.00086 U	0.0016 U
Endrin aldehyde															
Endrin ketone															
gamma-HCH (Lindane)	7.3	21	410	0.023									0.0022 U	0.0024 U	0.0045 U
gamma-Chlordane															
Heptachlor	1.5	3.8	220	0.66									0.00058 U	0.00061 U	0.0012 U
Heptachlor epoxide	0.74	1.9	13	0.082									0.0023 U	0.0025 U	0.0047 U
Methoxychlor	430	3100	5200	43									0.00063 U	0.00066 U	0.0013 U
Toxaphene	6.2	16	910	9.3									0.014 U	0.015 U	0.028 U
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	850	6200	10000	0.99									0.037 U	0.037 U	0.037 U
2,4,5-TP (Silvex)	690	4900	8200	0.55											
2,4-Dichlorophenoxyacetic acid (2,4-D)	970	7700	13000	0.36									0.024 U	0.024 U	0.024 U
2,4-DB	690	4900	8200	0.72											
Dalapon	2500	18000	31000	0.83											
Dicamba	2500	18000	31000	2.3											
Dichloroprop															
Dinoseb	85	620	1000	1.2											
pH					8.3										

Notes:
Red indicates value exceeds IDEM direct contact screening level for commercial/industrial use

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George	George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPMW2-02	GP-3	GP-4	GP-5	GP-5 DUP	GP-6	GP-7	GP-8	LT-GP01	LT-GP01-DUP	LT-GP06
Sample Date:					2002	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	03/01/12	11/10/09	11/10/09	11/10/09
Sample Depth (ft):					4-6	4-5	4-5	3-4	3-4	1-3	3-4	4-5	1.5-3	Duplicate	3-4
Sampled By:					URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS

Yellow indicates value exceeds IDEM soil migration to GW screening level (2014)

U: Not detected. Value shown is the reporting limit.

J: Estimated concentration as the result was below the sample reporting limit or quality control criteria were not met.

UJ: Not detected at or above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of reporting necessary to accurately measure the analyte in the sample.

R: Rejected data.

B: Analyte was found in blank and sample.

* Duplicate analysis not within control limits.

Samples not analyzed for this analyte.

QC: The result for 1 or more QC measurements associated with this sample did not meet lab and/or source method acceptance criteria.

A: Concentration of analyte detected in sample is characteristic of a lab artifact.

<: Less than the method detection limit.

Blank unshaded cell: Analysis was run and result is assumed to be non-detect.

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				Little Tavern	Little Tavern	Old Madison St	Old Madison St	Old Madison St	Old Madison St	Old Madison St
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	LT-GP07	LT-GP08	OMS-GP01	OMS-GP01-DUP	OMS-GP02	OMS-GP03	OMS-GP04
Sample Date:					11/10/09	11/10/09	08/19/09	08/19/09	08/19/09	08/19/09	08/19/09
Sample Depth (ft):					0-2	8.5-9.5	4-6	Duplicate	0-2	4-6	6-8
Sampled By:					URS	URS	URS	URS	URS	URS	URS
VOCs											
1,1,1,2-Tetrachloroethane	27	93	680	0.038							
1,1,1-Trichloroethane	640	640	640	1.4			0.000084 U	0.00008 U	0.00012 UJ	0.00009 UJ	0.00019 U
1,1,2,2-Tetrachloroethane	7.8	28	1900	0.0052			0.00012 U	0.00012 U	0.00018 UJ	0.00013 UJ	0.00028 U
1,1,2-Trichloroethane	2.2	6.8	11	0.032			0.00013 U	0.00012 U	0.00019 UJ	0.00014 UJ	0.00029 U
1,1,2-Trichlorotrifluoroethane											
1,1-Dichloroethane	46	170	1700	0.14			0.00012 U	0.00011 U	0.00017 UJ	0.00012 UJ	0.00026 U
1,1-Dichloroethylene	340	1100	1200	0.05			0.00011 U	0.00011 U	0.00016 UJ	0.00012 UJ	0.00025 U
1,2-Dibromo-3-chloropropane	0.076	0.69	44	0.0017							
1,2-Dibromoethane	0.48	1.7	180	0.00028							
1,2-Dichlorobenzene	380	380	380	12							
1,2-Dichloroethane	6	22	250	0.028			0.00014 U	0.00013 U	0.0002 UJ	0.00015 UJ	0.00031 U
1,2-Dichloropropane	13	47	120	0.033			0.0001 U	0.000098 U	0.00015 UJ	0.00011 UJ	0.00023 U
1,2-Dichloroethylene (cis-)	220	2000	2400	0.41			0.000084 U	0.00008 U	0.00012 UJ	0.00009 UJ	0.00019 U
1,2-Dichloroethylene (trans-)	210	690	1200	0.59			0.00013 U	0.00013 U	0.00019 UJ	0.00014 UJ	0.0003 U
1,2,4-Trichlorobenzene	87	270	400	4.1			0.00042 U	0.0004 U	0.00061 UJ	0.00045 UJ	0.00095 U
1,3-Dichlorobenzene											
1,3-Dichloropropene (cis-)	24	83	570	0.029							
1,3-Dichloropropene (trans-)											
1,4-Dichlorobenzene	34	120	17000	1.4							
2-Hexanone	290	1400	2300	0.16							
4-Methyl-2-pentanone (MIBK)	3400	3400	3400	4.5			0.00038 U	0.00036 U	0.00055 UJ	0.00041 UJ	0.00085 U
Acetone (2-Propanone)	85000	100000	100000	49			0.0053 U	0.00079 U	0.0012 UJ	0.00089 UJ	0.08
Acrolein	0.21	0.65	1.1	0.00017							
Benzene	15	54	750	0.051	0.00026 UJ	0.00036 UJ	0.00013 U	0.00012 U	0.00018 UJ	0.00013 UJ	0.0025 J
Bromodichloromethane	3.8	14	930	0.43			0.0001 U	0.000096 U	0.00015 UJ	0.00011 UJ	0.00023 U
Bromoform	870	2200	20000	0.42			0.00011 U	0.0001 U	0.00016 UJ	0.00011 UJ	0.00024 U
Bromomethane	10	32	54	0.035			0.00078 U	0.00074 U	0.0011 UJ	0.00083 UJ	0.0017 U
Carbon disulfide	740	740	740	4.2			0.00023 U	0.00022 U	0.00034 UJ	0.00025 UJ	0.0044 J
Carbon tetrachloride	8.5	30	460	0.039			0.00023 U	0.00022 U	0.00034 UJ	0.00025 UJ	0.00053 U
Chlorobenzene	410	760	760	1.4			0.0002 U	0.0002 U	0.0003 UJ	0.00022 UJ	0.00046 U
Chloroethane	2100	2100	2100	120			0.00068 U	0.00065 U	0.00098 UJ	0.00073 UJ	0.0015 U
Chloroform	4.1	15	1800	0.44			0.00011 UJ	0.00028 J	0.00016 UJ	0.00012 UJ	0.00024 U
Chloromethane	170	500	840	0.98							
Cyclohexane	120	120	120	270							
Dibromochloromethane	9.5	33	800	0.43							
Dichlorodifluoromethane	130	400	670	5.7							
Ethylbenzene	76	270	480	16	0.00043 UJ	0.00058 UJ	0.0002 U	0.0002 U	0.0003 UJ	0.00022 UJ	0.02
Isopropylbenzene											
Methyl Acetate	29000	29000	29000	66							

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				Little Tavern	Little Tavern	Old Madison St	Old Madison St	Old Madison St	Old Madison St	Old Madison St
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	LT-GP07	LT-GP08	OMS-GP01	OMS-GP01-DUP	OMS-GP02	OMS-GP03	OMS-GP04
Sample Date:					11/10/09	11/10/09	08/19/09	08/19/09	08/19/09	08/19/09	08/19/09
Sample Depth (ft):					0-2	8.5-9.5	4-6	Duplicate	0-2	4-6	6-8
Sampled By:					URS	URS	URS	URS	URS	URS	URS
2-Butanone (MEK)	28000	28000	28000	21			0.00021 U	0.0002 U	0.00031 UJ	0.00023 UJ	0.0051 J
Methyl-tert-butyl-ether	600	2200	8900	0.54	0.00067 UJ	0.00092 UJ	0.00032 U	0.00031 U	0.00047 UJ	0.00035 UJ	0.00073 U
Methylcyclohexane											
Methylene chloride	500	3100	3300	0.025			0.00028 U	0.00027 U	0.00041 UJ	0.00031 UJ	0.078
n-Butanol	8500	62000	100000	6.2							
Styrene	870	870	870	2.2			0.00019 U	0.00018 U	0.00027 UJ	0.0002 UJ	0.00042 U
Tetrachloroethylene	120	170	170	0.045			0.00018 U	0.00018 U	0.0013 J	0.0002 UJ	0.00042 U
Toluene	820	820	820	14	0.00032 UJ	0.00043 UJ	0.00015 U	0.00015 U	0.00022 UJ	0.00016 UJ	0.0015 J
Xylene (total)	260	260	260	200	0.0012 UJ	0.0017 UJ	0.00059 U	0.00056 U	0.00086 UJ	0.00063 UJ	0.087
Trichloroethylene	6.2	20	34	0.036			0.012	0.011	0.00064 J	0.00033 J	0.00059 U
Trichlorofluoromethane	1100	1200	1200	14							
Vinyl acetate	1400	2800	2800	1.7							
Vinyl chloride	0.84	17	660	0.014			0.00013 UJ	0.00013 UJ	0.00019 UJ	0.00014 UJ	0.0003 U
TPH-GRO (C5-C12)					2.1 U	2.3 U					
Metals											
Aluminum	100000	100000	100000	480000							
Antimony	43	410	690	5.4			0.29	0.23	0.59	0.29 J	0.37
Arsenic	8.5	24	640	5.9			3.5	2.8	26	4.6 J	7.2
Barium	21000	100000	100000	1700			16	13	36	24 J	21
Beryllium	220	2000	3300	63			0.19	0.17	0.44	0.23 J	0.15
Boron	22000	100000	100000	200			2.1	1.9	7.7	1.9 J	1.3
Cadmium	98	800	1300				0.2 J	0.092 UJ	0.35	0.11 UJ	0.1 U
Calcium											
Chromium	100000	100000	100000	1000000			4.6	3.9	4.5	6.4 J	5.8
Cobalt	32	300	520	4.3							
Copper	4300	41000	69000	920			11 J	19 J	16	11 J	15
Iron	77000	100000	100000	5600							
Cyanide, free	31	140	230	40							
Lead	400	800	1000	270	190	40	20 J	11 J	48	19 J	15
Magnesium											
Manganese	2500	23000	39000	420							
Mercury	3.1	3.1	3.1	2.1			0.075 J	0.036 J	0.031	0.018 J	0.024
Molybdenum	550	5100	8600	32			2.4	2.3	2.2	3.2 J	4.9
Nickel	2100	20000	32000	390			7.2	5.8	8.8	8.9 J	12
Potassium											
Selenium	550	5100	8600	5.3			0.3	0.2 J	0.41	0.23 J	0.28
Silver	550	5100	8600	12			0.016 J	0.0097 J	0.034 J	0.01 J	0.021 J
Sodium											
Strontium	66000	100000	10000	6600							
Thallium	1.1	10	17	2.9			0.16 J	0.13 J	0.2 J	0.2 J	0.37

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				Little Tavern	Little Tavern	Old Madison St	Old Madison St	Old Madison St	Old Madison St	Old Madison St
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	LT-GP07	LT-GP08	OMS-GP01	OMS-GP01-DUP	OMS-GP02	OMS-GP03	OMS-GP04
Sample Date:					11/10/09	11/10/09	08/19/09	08/19/09	08/19/09	08/19/09	08/19/09
Sample Depth (ft):					0-2	8.5-9.5	4-6	Duplicate	0-2	4-6	6-8
Sampled By:					URS	URS	URS	URS	URS	URS	URS
Vanadium	550	5100	8700	1300							
Zinc	32000	100000	100000	5900			35	28	79	40 J	73
PCBs											
Arochlor 1016	5.5	37	63	2.1							
Arochlor 1221	2	5.4	390	0.014							
Arochlor 1232	2	5.4	73	0.014							
Arochlor 1242	3.1	7.4	460	1.1							
Arochlor 1248	3.1	7.4	460	1							
Arochlor 1254	1.5	7.4	18	1.6							
Arochlor 1260	3.1	7.4	460	4.8							
SVOCs											
1,1-Biphenyl	71	210	350	0.17							
1,2,4-Trichlorobenzene	87	270	400	4.1							
1,2-Dichlorobenzene	380	380	380	12			0.0099 U	0.0099 U	0.11 U	0.011 U	0.011 U
1,3-Dichlorobenzene							0.0081 U	0.0081 U	0.086 U	0.0086 U	0.0089 U
1,4-Dichlorobenzene	34	120	17000	1.4			0.0098 U	0.0098 U	0.1 U	0.01 U	0.011 U
2,2-Oxybis (1-chloropropane)											
2,2-Oxybis (2-chloropropane)											
2,4,5-Trichlorophenol	8500	62000	100000	67			0.0088 U	0.0088 U	0.094 U	0.0094 U	0.0097 U
2,4,6-Trichlorophenol	85	620	1000	0.68			0.0059 U	0.0059 U	0.062 U	0.0063 U	0.0065 U
2,4-Dichlorophenol	250	1800	3100	0.83			0.0091 U	0.0092 U	0.097 U	0.0098 U	0.01 U
2,4-Dimethylphenol	1700	12000	20000	6.4			0.018 U	0.018 U	0.19 U	0.02 U	0.02 U
2,4-Dinitrophenol	170	1200	2000	0.67			0.032 U	0.032 U	0.34 U	0.034 U	0.035 U
2,4-Dinitrotoluene	22	55	2000	0.054							
2,6-Dinitrotoluene	4.6	12	310	0.012							
2-Chloronaphthalene	8800	82000	100000	57			0.0091 U	0.0091 U	0.096 U	0.0097 U	0.01 U
2-Chlorophenol	550	5100	8600	1.2			0.0098 U	0.0098 U	0.1 U	0.01 U	0.011 U
2-Methylnaphthalene	320	2200	3700	2.8			0.01 U	0.01 U	0.14 J	0.011 U	0.011 U
2-Methylphenol (o-cresol)	4300	31000	52000	12			0.011 U	0.011 U	0.12 U	0.012 U	0.012 U
2-Nitroaniline	850	6000	9900	1.3			0.0078 U	0.0078 U	0.083 U	0.0084 U	0.0086 U
2-Nitrophenol											
3,3-Dichlorobenzidine	15	38	2200	0.14			0.022 UJ	0.022 UJ	0.24 UJ	0.024 UJ	0.025 UJ
3-Methylphenol							0.011 U	0.011 U	0.11 U	0.011 U	0.012 U
3-Nitroaniline											
4,6-Dinitro-2-methylphenol											
4-Bromophenyl phenyl ether											
4-Chloro-3-methylphenol											
p-Chloroaniline (4-chloroaniline)	34	86	4200	0.027			0.016 U	0.016 U	0.17 U	0.017 U	0.017 U
4-Chlorophenyl phenyl ether											
4-Methylphenol (p-cresol)	8500	62000	100000	22			0.011 U	0.011 U	0.11 U	0.011 U	0.012 U

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Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				Little Tavern	Little Tavern	Old Madison St	Old Madison St	Old Madison St	Old Madison St	Old Madison St
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	LT-GP07	LT-GP08	OMS-GP01	OMS-GP01-DUP	OMS-GP02	OMS-GP03	OMS-GP04
Sample Date:					11/10/09	11/10/09	08/19/09	08/19/09	08/19/09	08/19/09	
Sample Depth (ft):					0-2	8.5-9.5	4-6	Duplicate	0-2	4-6	6-8
Sampled By:					URS	URS	URS	URS	URS	URS	URS
4-Nitroaniline	340	860	4200	0.28							
4-Nitrophenol											
Acenaphthene	4800	33000	55000	82			0.0052 U	0.0052 U	0.055 U	0.0056 U	0.0057 U
Acenaphthylene							0.0019 U	0.0019 U	0.02 U	0.002 U	0.0021 U
Acetophenone											
Anthracene	24000	100000	100000	860			0.0016 U	0.0016 U	0.017 U	0.0096 J	0.0018 U
Atrazine	29	75	4200	0.039							
Benzaldehyde	1200	1200	1200	6.7							
Benidine	0.007	0.075	4.2	0.000047							
Benz(a)anthracene	2.1	21	1300	2.1			0.12	0.1	0.32 J	0.035	0.0032 U
Benzo(a)pyrene	0.21	2.1	130	4.7			0.14	0.11	0.39	0.022 J	0.025 U
Benzo(b)fluoranthene	2.1	21	1300	7			0.23	0.17	0.31 J	0.029 J	0.055 U
Benzo(g,h,i)perylene							0.065	0.049	0.32 J	0.013 J	0.023 U
Benzo(k)fluoranthene	21	210	13000	68			0.064	0.074	0.41	0.035	0.046 U
Benzoic acid	100000	100000	100000	270							
Benzyl alcohol	8500	62000	100000	7.3							
Bis(2-chloroethoxy)methane	250	1800	3100	0.21							
Bis(2-chloroethyl)ether	2.9	10	750	0.00063			0.0088 U	0.0088 U	0.094 U	0.0094 U	0.0097 U
Bis(2-chloroisopropyl)ether							0.011 U	0.011 U	0.12 U	0.012 U	0.013 U
Bis(2-ethylhexyl)phthalate	490	1200	20000	29			0.99	0.75	0.22 U	0.34 J	0.05 J
Butylbenzylphthalate	3600	9100	100000	41			0.0036 U	0.0036 U	0.038 U	0.0038 U	0.0039 U
Caprolactam	42000	100000	100000	38							
Carbazole							0.0096 U	0.0096 U	0.1 U	0.01 U	0.011 U
Chrysene	210	2100	100000	210			0.13	0.11	0.32 J	0.023 J	0.0022 U
Dibenz(a,h)anthracene	0.21	2.1	130	2.2			0.063	0.062	0.029 U	0.0029 U	0.03 U
Dibenzofuran	110	1000	1700	2.1			0.0085 U	0.0086 U	0.091 U	0.0091 U	0.0094 U
Di-n-butyl phthalate	8500	62000	100000	34			0.0051 U	0.0051 U	0.054 U	0.0054 U	0.0056 U
Diethylphthalate	69000	100000	100000	90			0.0023 U	0.0023 U	0.025 U	0.0025 U	0.0026 U
Dimethylphthalate							0.009 U	0.009 U	0.096 U	0.0097 U	0.01 U
Di-n-octyl phthalate							0.0047 U	0.0047 U	0.05 U	0.005 U	0.052 U
Fluoranthene	3200	22000	37000	1400			0.17	0.13	0.37	0.05	0.0028 U
Fluorene	3200	22000	37000	81			0.002 U	0.002 U	0.021 U	0.0021 U	0.0022 U
Hexachlorobutadiene	85	220	1000	0.1			0.011 U	0.011 U	0.11 U	0.011 U	0.012 U
Hexachlorobenzene	4.2	11	630	0.25			0.0095 U	0.0096 U	0.1 U	0.01 U	0.011 U
Hexachlorocyclopentadiene	520	3700	6200	3.1			0.004 U	0.004 U	0.043 U	0.0043 UJ	0.0044 U
Hexachloroethane	60	430	730	0.062			0.011 U	0.011 U	0.11 U	0.011 U	0.012 U
Indeno(1,2,3-cd)pyrene	2.1	21	1300	40			0.063	0.048	0.15 J	0.011 J	0.027 U
Isophorone	7100	18000	100000	4.4			0.012 U	0.012 U	0.13 U	0.013 U	0.013 U
Napthalene	50	180	1000	0.092			0.0019 U	0.0019 U	0.02 U	0.002 U	0.21
Nitrobenzene	67	240	2000	0.016			0.0097 U	0.0097 U	0.1 U	0.01 U	0.011 U

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.:	IDEM Screening Levels (2014)				Little Tavern	Little Tavern	Old Madison St	Old Madison St	Old Madison St	Old Madison St	Old Madison St
	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	LT-GP07	LT-GP08	OMS-GP01	OMS-GP01-DUP	OMS-GP02	OMS-GP03	OMS-GP04
Sample Date:					11/10/09	11/10/09	08/19/09	08/19/09	08/19/09	08/19/09	08/19/09
Sample Depth (ft):					0-2	8.5-9.5	4-6	Duplicate	0-2	4-6	6-8
Sampled By:					URS	URS	URS	URS	URS	URS	URS
N-Nitrosodi-n-propylamine	0.97	2.5	140	0.0014			0.01 U	0.01 U	0.11 U	0.011 U	0.011 U
N-nitrosodiphenylamine	1400	3500	100000	11			0.0075 U	0.0075 U	0.08 U	0.008 U	0.0083 U
Pentachlorophenol	12	27	2000	0.2			0.014 U	0.014 U	0.15 U	0.015 U	0.016 U
Phenanthrene							0.075	0.055	0.46	0.043	0.0017 U
Phenol	25000	100000	100000	52			0.009 U	0.009 U	0.096 U	0.0096 U	0.023 J
Pyrene	2400	17000	28000	190			0.15	0.13	0.44	0.04	0.0025 U
Pesticides/Herbicides											
4,4'-DDD	28	72	4200	1.3							
4,4'-DDE	20	51	3000	9.4							
4,4'-DDT	24	70	720	13							
Aldrin	0.41	1	31	0.13							
alpha-HCH (alpha-BHC)	1.1	2.7	160	0.0072							
alpha-Chlordane											
beta-HCH (beta-BHC)	3.8	9.6	560	0.026							
Chlordane	22	65	680	2.7							
Dieldrin	0.42	1.1	52	0.012							
Endosulfan (Endosulfan I)											
Endosulfan (Endosulfan II)											
Endosulfan sulfate											
Endrin	25	180	310	1.6							
Endrin aldehyde											
Endrin ketone											
gamma-HCH (Lindane)	7.3	21	410	0.023							
gamma-Chlordane											
Heptachlor	1.5	3.8	220	0.66							
Heptachlor epoxide	0.74	1.9	13	0.082							
Methoxychlor	430	3100	5200	43							
Toxaphene	6.2	16	910	9.3							
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	850	6200	10000	0.99							
2,4,5-TP (Silvex)	690	4900	8200	0.55							
2,4-Dichlorophenoxyacetic acid (2,4-D)	970	7700	13000	0.36							
2,4-DB	690	4900	8200	0.72							
Dalapon	2500	18000	31000	0.83							
Dicamba	2500	18000	31000	2.3							
Dichloroprop											
Dinoseb	85	620	1000	1.2							
pH											6.4

Notes:

Red indicates value exceeds IDEM direct contact screening level for commercial/industrial use

Table 1: Summary of Soil Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				Little Tavern	Little Tavern	Old Madison St	Old Madison St	Old Madison St	Old Madison St	Old Madison St
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	LT-GP07	LT-GP08	OMS-GP01	OMS-GP01-DUP	OMS-GP02	OMS-GP03	OMS-GP04
Sample Date:					11/10/09	11/10/09	08/19/09	08/19/09	08/19/09	08/19/09	
Sample Depth (ft):					0-2	8.5-9.5	4-6	Duplicate	0-2	4-6	6-8
Sampled By:					URS	URS	URS	URS	URS	URS	URS

Yellow indicates value exceeds IDEM soil migration to GW screening level (2014)

U: Not detected. Value shown is the reporting limit.

J: Estimated concentration as the result was below the sample reporting limit or quality control criteria were not met.

UJ: Not detected at or above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of reporting necessary to accurately measure the analyte in the sample.

R: Rejected data.

B: Analyte was found in blank and sample.

* Duplicate analysis not within control limits.

Samples not analyzed for this analyte.

QC: The result for 1 or more QC measurements associated with this sample did not meet lab and/or source method acceptance criteria.

A: Concentration of analyte detected in sample is characteristic of a lab artifact.

<: Less than the method detection limit.

Blank unshaded cell: Analysis was run and result is assumed to be non-detect.

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)		George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	Little Tavern	
Sample ID No.:	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	GPMW1	GPMW1D	GPMW2	GP-3GW	GP-3GW DUP	GP-5GW	GP-8GW	LT-MW01	LT-MW01-DUP	LT-MW02	LT-MW03	
Sample Date:			2002	2002	2002	03/01/12	03/01/12	03/01/12	03/06/12	11/10/09	11/10/09	11/10/09	11/10/09	
Sample Depth (ft):			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Sampled By:			URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS
VOCs (mg/l)														
1,1,1,2-Tetrachloroethane	0.005		0.001 U	0.001 U	0.001 U									
1,1,1-Trichloroethane	0.2	54	0.001 U	0.001 U	0.001 U	<0.00013	<0.00013	<0.00013	<0.00013	0.00021 U	0.00021 U			
1,1,2,2-Tetrachloroethane	0.00066	0.31	0.001 U	0.001 U	0.001 U	<0.00013	<0.00013	<0.00013	<0.00013	0.0002 U	0.0002 U			
1,1,2-Trichloroethane	0.005	0.046	0.001 U	0.001 U	0.001 U	<0.000084	<0.000084	<0.000084	<0.000084	0.00015 U	0.00015 U			
1,1,2-Trichlorotrifluoroethane						<0.00018	<0.00018	<0.00018	<0.00018					
1,1-Dichloroethane	0.024	0.55	0.001 U	0.001 U	0.001 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00018 U	0.00018 U			
1,1-Dichloroethylene	0.007	1.3	0.001 U	0.001 U	0.001 U	<0.00012	<0.00012	<0.00012	<0.00012	0.0029	0.0029			
1,1-Dichloropropene			0.001 U	0.001 U	0.001 U									
1,2-Dibromoethane	0.00005		0.001 U	0.001 U	0.001 U	<0.00016	<0.00016	<0.00016	<0.00016					
1,2-Dichlorobenzene	0.6		0.001 U	0.001 U	0.001 U	<0.00013	<0.00013	<0.00013	<0.00013					
1,2-Dibromo-3-chloropropane	0.0002		0.001 U	0.001 U	0.001 U	<0.00031	<0.00031	<0.00031	<0.00031					
1,2-Dichloroethane	0.005	0.21	0.001 U	0.001 U	0.001 U	<0.00015	<0.00015	<0.00015	<0.00015	0.00015 U	0.00015 U			
1,2-Dichloroethylene (cis-)	0.07		0.001 U	0.001 U	0.001 U	<0.00011	<0.00011	<0.00011	<0.00011	0.66	0.57			
1,2-Dichloroethylene (trans-)	0.1		0.001 U	0.001 U	0.001 U	<0.00012	<0.00012	<0.00012	<0.00012	0.2	0.17			
1,2-Dichloropropane	0.005					<0.00013	<0.00013	<0.00013	<0.00013	0.00015 U	0.00015 U			
1,2,4-Trichlorobenzene	0.07					<0.00016	<0.00016	<0.00016	<0.00016	0.00026 U	0.00026 U			
1,2,3-Trichloropropane	0.0000065													
1,2,3-Trichlorobenzene	0.0052													
1,2,4-Trimethylbenzene	0.015													
1,3-Dichloropropane	0.29													
1,3-Dichloropropene (cis-)	0.0041		0.001 U	0.001 U	0.001 U	<0.000081	<0.000081	<0.000081	<0.000081					
1,3-Dichloropropene (trans-)			0.001 U	0.001 U	0.001 U	<0.00015	<0.00015	<0.00015	<0.00015					
1,3-Dichlorobenzene						<0.00016	<0.00016	<0.00016	<0.00016					
1,4-Dichlorobenzene	0.075					<0.00015	<0.00015	<0.00015	<0.00015					
1,3,5-Trimethylbenzene	0.087													
2-Chlorotoluene	0.18													
4-Chlorotoluene	0.19													
2,2-Dichloropropane														
4-Methyl-2-pentanone (MIBK)	1		0.005 U	0.005 U	0.005 U	<0.000096	<0.000096	<0.000096	<0.000096	0.00034 U	0.00034 U			
Acetone (2-Propanone)	12		0.008	0.005 U	0.005 U	<0.00033	<0.00033	<0.00033	<0.00033	0.00036 U	0.00036 U			
Acrolein	0.000041		0.2 U	0.2 U	0.2 U									
Acrylonitrile	0.00045													
Benzene	0.005	0.12	0.001 U	0.001 U	0.001 U	<0.00018	<0.00018	<0.00018	<0.00018	0.00018 U	0.00018 U	0.0065	0.00018 U	
Bromobenzene	0.054		0.001 U	0.001 U	0.001 U									
Bromochloromethane	0.083		0.001 U	0.001 U	0.001 U									
Bromodichloromethane	0.08		0.001 U	0.001 U	0.001 U	<0.00012	<0.00012	<0.00012	<0.00012	0.00014 U	0.00014 U			
Bromoform (tribromomethane)	0.08		0.001 U	0.001 U	0.001 U	<0.00015	<0.00015	<0.00015	<0.00015	0.00012 U	0.00012 U			
Bromomethane	0.007		0.001 U	0.001 U	0.001 U	<0.00021	<0.00021	<0.00021	<0.00021	0.0003 U	0.0003 U			
Carbon disulfide	0.72		0.005 U	0.005 U	0.005 U	<0.00017	<0.00017	<0.00017	<0.00017	0.0001 U	0.0001 U			

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	Little Tavern
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	GPMW1	GPMW1D	GPMW2	GP-3GW	GP-3GW DUP	GP-5GW	GP-8GW	LT-MW01	LT-MW01-DUP	LT-MW02	LT-MW03
			2002	2002	2002	03/01/12	03/01/12	03/01/12	03/06/12	11/10/09	11/10/09	11/10/09	11/10/09
			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	
Carbon tetrachloride	0.005	0.028	0.001 U	0.001 U	0.001 U	<0.00012	<0.00012	<0.00012	<0.00012	0.00016 U	0.00016 U		
2-Chloroethylvinylether			0.001 U	0.001 U	0.001 U								
Chlorobenzene	0.1		0.001 U	0.001 U	0.001 U	<0.00013	<0.00013	<0.00013	<0.00013	0.00014 U	0.00014 U		
Chloroethane	21		0.001 U	0.001 U	0.001 U	<0.00046	<0.00046	<0.00046	<0.00046	0.0003 U	0.0003 U		
Chloroform	0.08		0.001 U	0.001 U	0.001 U	<0.00015	<0.00015	<0.00015	<0.00015	0.00019 U	0.00019 U		
Chloromethane	0.19		0.001 U	0.001 U	0.001 U	<0.00016	<0.00016	<0.00016	<0.00016				
Cyclohexane	13000					<0.00022	<0.00022	<0.00022	<0.00022				
Dibromochloromethane	0.08		0.001 U	0.001 U	0.001 U	<0.00013	<0.00013	<0.00013	<0.00013				
Dibromomethane	0.0079		0.001 U	0.001 U	0.001 U								
Dichlorodifluoromethane	0.19		0.001 U	0.001 U	0.001 U	<0.00020	<0.00020	<0.00020	<0.00020				
Ethyl methacrylate	0.42		0.001 U	0.001 U	0.001 U								
Ethylbenzene	0.7		0.001 U	0.001 U	0.001 U	<0.00013	<0.00013	<0.00013	<0.00013	0.00016 U	0.00016 U	0.27	0.027
Hexachlorobutadiene	0.0026												
Iodomethane													
Isopropylbenzene (Cumene)	0.39					0.00032 J	0.00033 J	<0.00013	<0.00013				
Methyl butyl ketone (2-Hexanone)	0.034					<0.00012	<0.00012	<0.00012	<0.00012				
2-Butanone (MEK)	4.9		0.005 U	0.005 U	0.005 U	<0.00022	<0.00022	<0.00022	<0.00022	0.00035 U	0.00035 U		
Methyl acetate	16000					<0.00019	<0.00019	<0.00019	<0.00019				
Methylcyclohexane						<0.00099	<0.00099	<0.00099	<0.00099				
Methyl-tert-butyl-ether	0.12		0.001 U	0.001 U	0.001 U	<0.00007	<0.00007	<0.00007	<0.00007	0.00015 U	0.00015 U	0.00015 U	0.00015 U
Methylene chloride	0.005		0.001 U	0.001 U	0.001 U	<0.00019	<0.00019	<0.00019	<0.00019	0.00031 U	0.00031 U		
Napthalene	0.0014	0.46											
n-Butanol	1.5		0.1 U	0.1 U	0.1 U								
n-Propylbenzene	0.53												
n-Butylbenzene	0.78												
p-Isopropyltoluene													
sec-Butylbenzene	1.6												
tert-Butylbenzene	0.51												
Styrene	0.1		0.001 U	0.001 U	0.001 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00014 U	0.00014 U		
Tetrachloroethylene	0.005	0.47	0.001 U	0.001 U	0.001 U	<0.00015	<0.00015	<0.00015	<0.00015	0.00014 U	0.00014 U		
Toluene	1		0.001 U	0.001 U	0.001 U	<0.00012	<0.00012	<0.00012	<0.00012	0.00014 U	0.00014 U	0.0047	0.00014 U
trans-1,2-Dichloro-2-butene													
Xylene mixed (total)	10		0.0027	0.0024	0.001 U	<0.00029	<0.00029	<0.00029	<0.00029	0.00048 U	0.00048 U	0.56	0.055
Trichloroethylene	0.005	0.038	0.001 U	0.001 U	0.001 U	<0.00014	<0.00014	<0.00014	<0.00014	1.4	1.2		
Trichlorofluoromethane	1.1					<0.00018	<0.00018	<0.00018	<0.00018				
Vinyl acetate	0.41		0.005 U	0.005 U	0.005 U								
Vinyl chloride	0.002	0.035	0.001 U	0.001 U	0.001 U	<0.00017	<0.00017	<0.00017	<0.00017	0.0042	0.0041		
TPH-GRO (C5-C12)												10	1.6
Total Metals (mg/l)													
Aluminum	16		56	59	29								

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	Little Tavern	
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	GPMW1	GPMW1D	GPMW2	GP-3GW	GP-3GW DUP	GP-5GW	GP-8GW	LT-MW01	LT-MW01-DUP	LT-MW02	LT-MW03	
			2002	2002	2002	03/01/12	03/01/12	03/01/12	03/06/12	11/10/09	11/10/09	11/10/09	11/10/09	
			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
			URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS
Antimony	0.006		0.02 U	0.02 U	0.02 U									
Arsenic	0.01		0.03	0.025	0.012	0.012	0.0093	0.0082	0.0067	0.012	0.012			
Barium	2		0.3	0.33	0.39	0.26	0.23	0.25	0.19	0.088	0.087			
Beryllium	0.004		0.0031 J	0.0033 J	0.0007 J									
Boron	3100													
Cadmium	0.005		0.0095	0.01	0.001 J	0.0022	0.0015 J	0.0013 J	0.00027 J	0.000063 U	0.000063 U			
Calcium														
Chromium	0.1		0.35	0.45	0.047	0.022	0.017	0.058	0.022	0.005 U	0.005 U			
Cobalt	0.0047		0.053	0.053	0.019									
Copper	1.3		0.31	0.3	0.036									
Iron	11000													
Lead	0.015		0.27	0.28	0.052	0.14	0.12	0.084	0.027	0.00086 J	0.00091 J	0.071	0.036	
Magnesium														
Manganese	320													
Mercury	0.002		0.0002	0.0003	0.0002 U	0.00014 J	0.00013 J	0.00008 J	0.000064 J	0.0002 U	0.0002 U			
Molybdenum	0.078		0.024	0.021	0.011									
Nickel	0.3		0.16	0.16	0.055									
Potassium														
Selenium	0.05		0.0088 J	0.0089 J	0.006 J	<0.00041	<0.00041	0.00085 J	0.00043 J	0.00046 UJ	0.00059 J			
Silver	0.071		0.005 U	0.005 U	0.005 U	0.000097 J	0.000073 J	0.00015 J	0.000064 J	0.000015 UJ	0.000018 J			
Sodium														
Strontium	9.3		0.2	0.2	0.29									
Thallium	0.002		0.01 U	0.01 U	0.01 U									
Vanadium	0.063		0.12	0.13	0.043									
Zinc	4.7		3.3	3.7	0.86									
Dissolved Metals (mg/l)														
Antimony	0.006													
Arsenic	0.01					0.0012 J	0.0014 J	<0.00072	0.00094 J					
Barium	2000					0.1	0.11	0.13	0.13					
Beryllium	0.004													
Boron	3100													
Cadmium	0.005					<0.000034	<0.000034	0.00013 J	0.00045 J					
Chromium	0.1					0.00011 J	0.000094 J	0.00081 J	0.0012 J					
Copper	1.3													
Lead	0.015					0.000043 J	0.000071 J	0.00027 J	0.00012 J					
Mercury	0.002					<0.000008	<0.000008	<0.000008	0.000023 J					
Molybdenum	0.078													
Nickel	0.3													
Selenium	0.05					<0.00041	<0.00041	<0.00041	<0.00041					
Silver	0.071					<0.000025	<0.000025	0.000054 J	0.000066 J					

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	Little Tavern
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	GPMW1	GPMW1D	GPMW2	GP-3GW	GP-3GW DUP	GP-5GW	GP-8GW	LT-MW01	LT-MW01-DUP	LT-MW02	LT-MW03
			2002	2002	2002	03/01/12	03/01/12	03/01/12	03/06/12	11/10/09	11/10/09	11/10/09	11/10/09
			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	
Thallium	0.002												
Zinc	4.7												
PCBs (mg/l)													
Aroclor 1016	0.0011		0.0005 U	0.0005 U	0.0005 U					0.000057 U	0.000057 U		
Aroclor 1221	0.00004		0.0005 U	0.0005 U	0.0005 U					0.000057 U	0.000057 U		
Aroclor 1232	0.00004		0.0005 U	0.0005 U	0.0005 U					0.000057 U	0.000057 U		
Aroclor 1242	0.00034		0.0005 U	0.0005 U	0.0005 U					0.000057 U	0.000057 U		
Aroclor 1248	0.00034		0.0005 U	0.0005 U	0.0005 U					0.000057 U	0.000057 U		
Aroclor 1254	0.00031		0.0005 U	0.0005 U	0.0005 U					0.000036 U	0.000036 U		
Aroclor 1260	0.00034		0.0005 U	0.0005 U	0.0005 U					0.000036 U	0.000036 U		
SVOCs (mg/l)													
1,1-Biphenyl	0.83					<0.000095	<0.000095	<0.000095	<0.000095				
1,2,4-Trichlorobenzene	0.07		0.011	0.011	0.011								
1,2-Dichlorobenzene	0.6		0.011 U	0.011 U	0.011 U					0.00018 U	0.00018 U		
1,3-Dichlorobenzene			0.011 U	0.011 U	0.011 U					0.0002 U	0.0002 U		
1,4-Dichlorobenzene	0.075		0.011 U	0.011 U	0.011 U					0.00022 U	0.00022 U		
2,2-Oxybis (1-chloropropane)			0.011 U	0.011 U	0.011 U								
2,4,5-Trichlorophenol	0.89		0.053 U	0.053 U	0.053 U	<0.00012	<0.00012	<0.00012	<0.00012	0.0005 U	0.0005 U		
2,4,6-Trichlorophenol	0.009		0.011 U	0.011 U	0.011 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00033 U	0.00033 U		
2,4-Dichlorophenol	0.035		0.011 U	0.011 U	0.011 U	<0.00022	<0.00022	<0.00022	<0.00022	0.00038 UJ	0.00038 UJ		
2,4-Dimethylphenol	0.27		0.011 U	0.011 U	0.011 U	<0.00024	<0.00024	<0.00024	<0.00024	0.00094 U	0.00094 U		
2,4-Dinitrophenol	0.03		0.053 U	0.053 U	0.053 U	<0.00076	<0.00076	<0.00076	<0.00076	0.0016 U	0.0016 U		
2,4-Dinitrotoluene	0.002		0.011 U	0.011 U	0.011 U	<0.00078	<0.00078	<0.00078	<0.00078				
2,6-Dinitrotoluene	0.00042		0.011 U	0.011 U	0.011 U	<0.00082	<0.00082	<0.00082	<0.00082				
2-Chloronaphthalene	0.55		0.011 U	0.011 U	0.011 U	<0.00013	<0.00013	<0.00013	<0.00013	0.00073 U	0.00073 U		
2-Chlorophenol	0.071		0.011 U	0.011 U	0.011 U	<0.00073	<0.00073	<0.00073	<0.00073	0.00019 U	0.00019 U		
2-Methylnaphthlene	0.027		0.011 U	0.011 U	0.011 U	<0.00013	<0.00013	<0.00013	<0.00013	0.00003 J	0.000012 UJ		
2-Methylphenol (o-cresol)	0.72		0.011 U	0.011 U	0.011 U	<0.00060	<0.00060	<0.00060	<0.00060	0.001 UJ	0.001 UJ		
2-Nitroaniline	0.15		0.053 U	0.053 U	0.053 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00096 U	0.00096 U		
2-Nitrophenol						<0.00019	<0.00019	<0.00019	<0.00019				
3,3-Dichlorobenzidine	0.0011		0.021 U	0.021 U	0.021 U	<0.00054	<0.00054	<0.00054	<0.00054	0.0036 U	0.0036 U		
p-Chloroaniline (4-chloroaniline)	0.0032		0.011 U	0.011 U	0.011 U	<0.0011	<0.0011	<0.0011	<0.0011	0.0012 U	0.0012 U		
3-Methylphenol (m-cresol)	0.72		0.011 U	0.011 U	0.011 U					0.00021 U	0.00021 U		
3-Nitroaniline			0.011 U	0.011 U	0.011 U	<0.0025	<0.0025	<0.0025	<0.0025				
4,6-Dinitro-2-methylphenol			0.011 U	0.011 U	0.011 U	<0.00034	<0.00034	<0.00034	<0.00034				
4-Bromophenyl-phenylether			0.011 U	0.011 U	0.011 U	<0.00011	<0.00011	<0.00011	<0.00011				
4-Chloro-3-methylphenol			0.011 U	0.011 U	0.011 U	<0.00065	<0.00065	<0.00065	<0.00065				
4-Chlorophenyl-phenylether			0.011 U	0.011 U	0.011 U	<0.00011	<0.00011	<0.00011	<0.00011				
4-Methylphenol (p-cresol)	1.4		0.011 U	0.011 U	0.011 U	<0.00055	<0.00055	<0.00055	<0.00055	0.00021 U	0.00021 U		
4-Nitroaniline	0.033		0.011 U	0.011 U	0.011 U	<0.0015	<0.0015	<0.0015	<0.0015				

**Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel**

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	Little Tavern	
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	GPMW1	GPMW1D	GPMW2	GP-3GW	GP-3GW DUP	GP-5GW	GP-8GW	LT-MW01	LT-MW01-DUP	LT-MW02	LT-MW03	
			2002	2002	2002	03/01/12	03/01/12	03/01/12	03/06/12	11/10/09	11/10/09	11/10/09	11/10/09	
			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
			URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS
4-Nitrophenol			0.011 U	0.011 U	0.011 U	<0.0016	<0.0016	<0.0016	<0.0016					
Acenaphthene	0.4		0.011 U	0.011 U	0.011 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00001 U	0.00001 U			
Acenaphthylene			0.011 U	0.011 U	0.011 U	<0.00012	<0.00012	<0.00012	<0.00012	0.000013 UJ	0.000013 UJ			
Acetophenone						<0.00009	<0.00009	<0.00009	<0.00009					
Anthracene	1.3		0.011 U	0.011 U	0.011 U	<0.00072	<0.00072	<0.00072	<0.00072	0.00001 U	0.00001 U			
Atrazine	3					<0.0032	<0.0032	<0.0032	<0.0032					
Benzaldehyde	1500					<0.00046	<0.00046	<0.00046	<0.00046					
Benz(a)anthracene	0.00029		0.011 U	0.011 U	0.011 U	<0.00057	<0.00057	<0.00057	<0.00057	0.0000065 UJ	0.00003 J			
Benzo(a)pyrene	0.0002		0.011 U	0.011 U	0.011 U	<0.00010	<0.00010	<0.00010	<0.00010	0.000013 U	0.000013 U			
Benzo(b)fluoranthene	0.00029		0.011 U	0.011 U	0.011 U	<0.00074	<0.00074	<0.00074	<0.00074	0.000016 U	0.000016 U			
Benzo(g,h,i)perylene			0.011 U	0.011 U	0.011 U	<0.00070	<0.00070	<0.00070	<0.00070	0.000013 U	0.000013 U			
Benzo(k)fluoranthene	0.0029		0.011 U	0.011 U	0.011 U	<0.00017	<0.00017	<0.00017	<0.00017	0.000008 U	0.000008 U			
Benzoic acid	58		0.053 U	0.053 U	0.053 U									
Benzyl alcohol	1.5		0.011 U	0.011 U	0.011 U									
Bis(2-chloroethoxy)methane	0.046		0.011 U	0.011 U	0.011 U	<0.00013	<0.00013	<0.00013	<0.00013					
Bis(2-chloroethyl)ether	0.00012		0.011 U	0.011 U	0.011 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00071 U	0.00071 U			
Bis(2-chloroisopropyl)ether			0.011 U	0.011 U	0.011 U	<0.00012	<0.00012	<0.00012	<0.00012	0.00079 U	0.00079 U			
Bis(2-ethylhexyl)phthalate	0.006		0.011 U	0.011 U	0.011 U	<0.00012	<0.00012	<0.00012	<0.00012	0.0034 J	0.000076 UJ			
Butylbenzylphthalate	0.14		0.011 U	0.011 U	0.011 U	<0.00011	<0.00011	<0.00011	<0.00011	0.000085 U	0.000085 U			
Caprolactam	7700					<0.0047	<0.0047	<0.0047	<0.0047					
Carbazole			0.011 U	0.011 U	0.011 U	<0.00084	<0.00084	<0.00084	<0.00084	0.00073 U	0.00073 U			
Chrysene	0.029		0.011 U	0.011 U	0.011 U	<0.00071	<0.00071	<0.00071	<0.00071	0.000008 U	0.000008 U			
Dibenz(a,h)anthracene	0.000029	0.46	0.011 U	0.011 U	0.011 U	<0.00067	<0.00067	<0.00067	<0.00067	0.000013 U	0.000013 U			
Dibenzofuran	0.0058		0.011 U	0.011 U	0.011 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00083 U	0.00083 U			
Di-n-butyl phthalate	0.67		0.011 U	0.011 U	0.011 U	<0.00071	<0.00071	<0.00071	<0.00071	0.000074 U	0.000074 U			
Diethylphthalate	11		0.011 U	0.011 U	0.011 U	<0.00069	<0.00069	<0.00069	<0.00069	0.0012 U	0.0012 U			
Dimethylphthalate			0.011 U	0.011 U	0.011 U	<0.00014	<0.00014	<0.00014	<0.00014	0.0011 U	0.0011 U			
Di-n-octyl phthalate			0.011 U	0.011 U	0.011 U	<0.00012	<0.00012	<0.00012	<0.00012	0.000071 U	0.000071 U			
Fluoranthene	0.63		0.011 U	0.011 U	0.011 U	<0.00077	<0.00077	<0.00077	<0.00077	0.000012 U	0.000012 U			
Fluorene	0.22		0.011 U	0.011 U	0.011 U	<0.00010	<0.00010	<0.00010	<0.00010	0.000008 U	0.000008 U			
Hexachlorobutadiene	0.0026		0.011 U	0.011 U	0.011 U	<0.00012	<0.00012	<0.00012	<0.00012	0.0007 U	0.0007 U			
Hexachlorobenzene	0.001		0.011 U	0.011 U	0.011 U	<0.00010	<0.00010	<0.00010	<0.00010	0.00011 U	0.00011 U			
Hexachlorocyclopentadiene	0.05		0 R	0 R	0 R	<0.00018	<0.00018	<0.00018	<0.00018	0.0006 U	0.0006 U			
Hexachloroethane	0.0051		0.011 U	0.011 U	0.011 U	<0.00013	<0.00013	<0.00013	<0.00013	0.00079 U	0.00079 U			
Indeno(1,2,3-cd)pyrene	0.00029		0.011 U	0.011 U	0.011 U	<0.00069	<0.00069	<0.00069	<0.00069	0.000012 U	0.000012 U			
Isophorone	0.67		0.011 U	0.011 U	0.011 U	<0.00012	<0.00012	<0.00012	<0.00012	0.00093 U	0.00093 U			
Napthalene	0.0014		0.011 U	0.011 U	0.011 U	<0.00012	<0.00012	<0.00012	<0.00012	0.00002 J	0.000012 UJ			
Nitrobenzene	0.0012		0.011 U	0.011 U	0.011 U	<0.00010	<0.00010	<0.00010	<0.00010	0.00087 U	0.00087 U			
Nitrophenol			0.011 U	0.011 U	0.011 U									
N-Nitrosodi-n-propylamine	0.000093		0.011 U	0.011 U	0.011 U	<0.00013	<0.00013	<0.00013	<0.00013	0.001 U	0.001 U			

**Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel**

Property Name:	IDEM Screening Levels (2014)		George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	Little Tavern
	Sample ID No.:	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	GPMW1	GPMW1D	GPMW2	GP-3GW	GP-3GW DUP	GP-5GW	GP-8GW	LT-MW01	LT-MW01-DUP	LT-MW02
Sample Date:				2002	2002	2002	03/01/12	03/01/12	03/01/12	03/06/12	11/10/09	11/10/09	11/10/09
Sample Depth (ft):			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Sampled By:			URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS
N-nitrosodiphenylamine	0.1		0.011 U	0.011 U	0.011 U	<0.00081	<0.00081	<0.00081	<0.00081	0.00089 U	0.00089 U		
Pentachlorophenol	0.001		0.053 U	0.053 U	0.053 U	<0.00011	<0.00011	<0.00011	<0.00011	0.00057 U	0.00057 U		
Phenanthrene			0.011 U	0.011 U	0.011 U	<0.00086	<0.00086	<0.00086	<0.00086	0.000013 U	0.000013 U		
Phenol	4.5		0.011 U	0.011 U	0.011 U	<0.000094	<0.000094	<0.000094	<0.000094	0.00016 U	0.00016 U		
Pyrene	0.087		0.011 U	0.011 U	0.011 U	<0.00065	<0.00065	<0.00065	<0.00065	0.000008 U	0.000008 U		
Pesticides/Herbicides													
4,4'-DDD	0.27									0.0000036 U	0.0000036 U		
4,4'-DDE	2									0.0000044 U	0.0000044 U		
4,4'-DDT	2									0.0000036 U	0.0000036 U		
Aldrin	0.04									0.0000036 U	0.0000036 U		
alpha-HCH (alpha-BHC)	0.062									0.0000031 U	0.0000031 U		
alpha-Chlordane													
beta-HCH (beta-BHC)	0.22									0.0000034 U	0.0000034 U		
Chlordane	2												
Dieldrin	0.015									0.0000043 U	0.0000043 U		
Endosulfan (Endosulfan I)	78												
Endosulfan (Endosulfan II)													
Endosulfan sulfate													
Endrin	2									0.0000038 U	0.0000038 U		
Endrin aldehyde													
Endrin ketone													
gamma-HCH (Lindane)	0.2									0.0000038 U	0.0000038 U		
gamma-Chlordane													
Heptachlor	0.4									0.0000036 U	0.0000036 U		
Heptachlor epoxide	0.2									0.0000039 U	0.0000039 U		
Methoxychlor	40									0.0000041 U	0.0000041 U		
Toxaphene	3									0.0004 U	0.0004 U		
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	120									0.00076 U	0.00076 U		
2,4,5-TP (Silvex)	50												
2,4-Dichlorophenoxyacetic acid (2,4-D)	70									0.0017 U	0.0017 U		
2,4-DB	91												
Dalapon	200												
Dicamba	440												
Dichloroprop													
Dinoseb	7												

Notes:
 Red indicates value exceeds residential GW IDEM screening level
 Yellow indicates value exceeds com/ind vapor exposure screening level
 U: Not detected. Value shown is the reporting limit.

**Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel**

Property Name:	IDEM Screening Levels (2014)		George	George	George	George	George	George	George	Little Tavern	Little Tavern	Little Tavern	Little Tavern	
	Sample ID No.:	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	GPMW1	GPMW1D	GPMW2	GP-3GW	GP-3GW DUP	GP-5GW	GP-8GW	LT-MW01	LT-MW01-DUP	LT-MW02	LT-MW03
Sample Date:	2002			2002	2002	03/01/12	03/01/12	03/01/12	03/06/12	11/10/09	11/10/09	11/10/09	11/10/09	
Sample Depth (ft):	Unknown			Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
Sampled By:	URS			URS	URS	URS	URS	URS	URS	URS	URS	URS	URS	URS

J: Estimated concentration as the result was below the sample reporting limit or quality control criteria were not met.

UJ: Not detected at or above the sample reporting limit.

R: Rejected data.

QC: The result for 1 or more QC measurements associated with this sample did not meet lab and/or source method acceptance criteria.

<: Less than the method detection limit.

B: Analyte was found in blank and sample.

A: Concentration of analyte detected in sample is characteristic of a lab artifact.

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)		Old Madison St	Old Madison St	Old Madison St
Sample ID No.:	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	OMS-MW01	OM-MW01 DUP	OMS-MW02
Sample Date:			08/25/09	08/25/09	08/25/09
Sample Depth (ft):			Unknown	Unknown	Unknown
Sampled By:			URS	URS	URS
VOCs (mg/l)					
1,1,1,2-Tetrachloroethane	0.005				
1,1,1-Trichloroethane	0.2	54	0.00021 U	0.00021 U	0.00021 U
1,1,2,2-Tetrachloroethane	0.00066	0.31	0.0002 U	0.0002 U	0.0002 U
1,1,2-Trichloroethane	0.005	0.046	0.00015 U	0.00015 U	0.00015 U
1,1,2-Trichlorotrifluoroethane					
1,1-Dichloroethane	0.024	0.55	0.00018 U	0.00018 U	0.00018 U
1,1-Dichloroethylene	0.007	1.3	0.0002 U	0.0002 U	0.0002 U
1,1-Dichloropropene					
1,2-Dibromoethane	0.00005				
1,2-Dichlorobenzene	0.6				
1,2-Dibromo-3-chloropropane	0.0002				
1,2-Dichloroethane	0.005	0.21	0.00015 U	0.00015 U	0.00015 U
1,2-Dichloroethylene (cis-)	0.07		0.0028	0.0027	0.00091 J
1,2-Dichloroethylene (trans-)	0.1		0.00018 U	0.00018 U	0.00018 U
1,2-Dichloropropane	0.005		0.00015 U	0.00015 U	0.00015 U
1,2,4-Trichlorobenzene	0.07		0.00026 U	0.00026 U	0.00026 U
1,2,3-Trichloropropane	0.0000065				
1,2,3-Trichlorobenzene	0.0052				
1,2,4-Trimethylbenzene	0.015				
1,3-Dichloropropane	0.29				
1,3-Dichloropropene (cis-)	0.0041				
1,3-Dichloropropene (trans-)					
1,3-Dichlorobenzene					
1,4-Dichlorobenzene	0.075				
1,3,5-Trimethylbenzene	0.087				
2-Chlorotoluene	0.18				
4-Chlorotoluene	0.19				
2,2-Dichloropropane					
4-Methyl-2-pentanone (MIBK)	1		0.00034 U	0.00034 U	0.00034 U
Acetone (2-Propanone)	12		0.02 U	0.00036 U	0.00036 U
Acrolein	0.000041				
Acrylonitrile	0.00045				
Benzene	0.005	0.12	0.00018 U	0.00018 U	0.00018 U
Bromobenzene	0.054				
Bromochloromethane	0.083				
Bromodichloromethane	0.08		0.00014 U	0.00014 U	0.00014 U
Bromoform (tribromomethane)	0.08		0.00012 U	0.00012 U	0.00012 U
Bromomethane	0.007		0.0003 U	0.0003 U	0.0003 U
Carbon disulfide	0.72		0.0001 U	0.0001 U	0.0001 U

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		Old Madison St	Old Madison St	Old Madison St
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	OMS-MW01	OM-MW01 DUP	OMS-MW02
			08/25/09	08/25/09	08/25/09
			Unknown	Unknown	Unknown
			URS	URS	URS
Carbon tetrachloride	0.005	0.028	0.00016 U	0.00016 U	0.00016 U
2-Chloroethylvinylether					
Chlorobenzene	0.1		0.00014 U	0.00014 U	0.00014 U
Chloroethane	21		0.0003 U	0.0003 U	0.0003 U
Chloroform	0.08		0.00019 U	0.00019 U	0.00019 U
Chloromethane	0.19				
Cyclohexane	13000				
Dibromochloromethane	0.08				
Dibromomethane	0.0079				
Dichlorodifluoromethane	0.19				
Ethyl methacrylate	0.42				
Ethylbenzene	0.7		0.00016 U	0.00016 U	0.00016 U
Hexachlorobutadiene	0.0026				
Iodomethane					
Isopropylbenzene (Cumene)	0.39				
Methyl butyl ketone (2-Hexanone)	0.034				
2-Butanone (MEK)	4.9		0.00035 U	0.00035 U	0.00035 U
Methyl acetate	16000				
Methylcyclohexane					
Methyl-tert-butyl-ether	0.12		0.00015 U	0.00015 U	0.00015 U
Methylene chloride	0.005		0.00031 U	0.00031 U	0.00031 U
Napthalene	0.0014	0.46			
n-Butanol	1.5				
n-Propylbenzene	0.53				
n-Butylbenzene	0.78				
p-Isopropyltoluene					
sec-Butylbenzene	1.6				
tert-Butylbenzene	0.51				
Styrene	0.1		0.00014 U	0.00014 U	0.00014 U
Tetrachloroethylene	0.005	0.47	0.00014 U	0.00014 U	0.00014 U
Toluene	1		0.00014 U	0.00014 U	0.00014 U
trans-1,2-Dichloro-2-butene					
Xylene mixed (total)	10		0.00048 U	0.00048 U	0.00048 U
Trichloroethylene	0.005	0.038	0.013	0.012	0.00019 U
Trichlorofluoromethane	1.1				
Vinyl acetate	0.41				
Vinyl chloride	0.002	0.035	0.0016	0.0015	0.0055
TPH-GRO (C5-C12)					
Total Metals (mg/l)					
Aluminum	16				

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		Old Madison St	Old Madison St	Old Madison St
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	OMS-MW01	OM-MW01 DUP	OMS-MW02
			08/25/09	08/25/09	08/25/09
			Unknown	Unknown	Unknown
			URS	URS	URS
Antimony	0.006		0.00081 J	0.00074 J	0.00033 J
Arsenic	0.01		0.00058 J	0.00094 J	0.013
Barium	2		0.11	0.1	0.1
Beryllium	0.004		0.00013 J	0.000056 J	0.0001 J
Boron	3100		0.28	0.29	0.31 J
Cadmium	0.005		0.00018 J	0.00015 J	0.00012 J
Calcium					
Chromium	0.1		0.0027 J	0.0031 J	0.0039 J
Cobalt	0.0047				
Copper	1.3		0.014	0.014	0.0093
Iron	11000				
Lead	0.015		0.0028 J	0.0029 J	0.009
Magnesium					
Manganese	320				
Mercury	0.002		0.000004 U	0.000004 U	0.000004 U
Molybdenum	0.078		0.0057	0.0055	0.022
Nickel	0.3		0.0091	0.0092	0.0082
Potassium					
Selenium	0.05		0.00046 U	0.00046 U	0.00046 U
Silver	0.071		0.000032 J	0.000019 J	R
Sodium					
Strontium	9.3				
Thallium	0.002		0.0001 J	0.000081 UJ	0.00027 J
Vanadium	0.063				
Zinc	4.7		0.078	0.079	0.044
Dissolved Metals (mg/l)					
Antimony	0.006		0.00071 J	0.00081 J	0.00071 J
Arsenic	0.01		0.0007 J	0.0011 J	0.013
Barium	2000		0.098	0.1	0.093
Beryllium	0.004		0.000043 J	0.000035 UJ	0.000085 J
Boron	3100		0.27	0.28	0.32 J
Cadmium	0.005		0.00012 J	0.00012 J	0.000063 U
Chromium	0.1		0.0027 J	0.0028 J	0.00037 J
Copper	1.3		0.012	0.011	0.00056 J
Lead	0.015		0.00075 J	0.0008 J	0.000084 U
Mercury	0.002		0.000004 U	0.000004 U	0.000004 U
Molybdenum	0.078		0.0051	0.0052	0.021
Nickel	0.3		0.0079	0.0076	0.0035 J
Selenium	0.05		0.00046 U	0.00046 U	0.00046 U
Silver	0.071		0.000015 U	0.000015 U	R

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		Old Madison St	Old Madison St	Old Madison St
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	OMS-MW01	OM-MW01 DUP	OMS-MW02
			08/25/09	08/25/09	08/25/09
			Unknown	Unknown	Unknown
			URS	URS	URS
Thallium	0.002		0.000081 U	0.000081 U	0.00024 J
Zinc	4.7		0.065	0.065	0.0017 J
PCBs (mg/l)					
Aroclor 1016	0.0011				
Aroclor 1221	0.00004				
Aroclor 1232	0.00004				
Aroclor 1242	0.00034				
Aroclor 1248	0.00034				
Aroclor 1254	0.00031				
Aroclor 1260	0.00034				
SVOCs (mg/l)					
1,1-Biphenyl	0.83				
1,2,4-Trichlorobenzene	0.07				
1,2-Dichlorobenzene	0.6		0.00018 U	0.00018 U	0.00018 U
1,3-Dichlorobenzene			0.0002 U	0.0002 U	0.0002 U
1,4-Dichlorobenzene	0.075		0.00022 U	0.00022 U	0.00022 U
2,2-Oxybis (1-chloropropane)					
2,4,5-Trichlorophenol	0.89		0.0005 U	0.0005 U	0.0005 U
2,4,6-Trichlorophenol	0.009		0.00033 U	0.00033 U	0.00033 UJ
2,4-Dichlorophenol	0.035		0.00038 UJ	0.00038 UJ	0.00038 UJ
2,4-Dimethylphenol	0.27		0.00094 U	0.00094 U	0.00094 U
2,4-Dinitrophenol	0.03		0.0016 U	0.0016 U	0.0016 U
2,4-Dinitrotoluene	0.002				
2,6-Dinitrotoluene	0.00042				
2-Chloronaphthalene	0.55		0.00073 U	0.00073 U	0.00073 UJ
2-Chlorophenol	0.071		0.00019 U	0.00019 U	0.00019 U
2-Methylnaphthlene	0.027		0.000012 U	0.000012 U	0.000012 U
2-Methylphenol (o-cresol)	0.72		0.001 U	0.001 U	0.001 U
2-Nitroaniline	0.15		0.00096 U	0.00096 U	0.00096 U
2-Nitrophenol					
3,3-Dichlorobenzidine	0.0011		0.0036 UJ	0.0036 UJ	0.0036 UJ
p-Chloroaniline (4-chloroaniline)	0.0032		0.00021 U	0.00021 U	0.00021 U
3-Methylphenol (m-cresol)	0.72		0.00021 U	0.00021 U	0.00021 U
3-Nitroaniline					
4,6-Dinitro-2-methylphenol					
4-Bromophenyl-phenylether					
4-Chloro-3-methylphenol					
4-Chlorophenyl-phenylether					
4-Methylphenol (p-cresol)	1.4		0.00001 U	0.00001 U	0.00001 U
4-Nitroaniline	0.033				

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)		Old Madison St	Old Madison St	Old Madison St
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	OMS-MW01	OM-MW01 DUP	OMS-MW02
			08/25/09	08/25/09	08/25/09
			Unknown	Unknown	Unknown
			URS	URS	URS
4-Nitrophenol					
Acenaphthene	0.4		0.000013 U	0.000013 U	0.000013 UJ
Acenaphthylene			0.00001 U	0.00001 U	0.00001 U
Acetophenone					
Anthracene	1.3		0.0000065 U	0.0000065 U	0.00015
Atrazine	3				
Benzaldehyde	1500				
Benz(a)anthracene	0.00029		0.000013 U	0.000013 U	0.000013 U
Benzo(a)pyrene	0.0002		0.000016 U	0.000016 U	0.00013
Benzo(b)fluoranthene	0.00029		0.000013 U	0.000013 U	0.00002 J
Benzo(g,h,i)perylene			0.000008 U	0.000008 U	0.00005
Benzo(k)fluoranthene	0.0029		0.00079 U	0.00079 U	0.00079 U
Benzoic acid	58				
Benzyl alcohol	1.5				
Bis(2-chloroethoxy)methane	0.046				
Bis(2-chloroethyl)ether	0.00012		0.00071 U	0.00071 U	0.00071 U
Bis(2-chloroisopropyl)ether			0.000076 U	0.000076 U	0.0014 J
Bis(2-ethylhexyl)phthalate	0.006		0.000085 U	0.000085 U	0.000085 U
Butylbenzylphthalate	0.14		0.00073 U	0.00073 U	0.00073 U
Caprolactam	7700				
Carbazole			0.000008 U	0.000008 U	0.00011
Chrysene	0.029		0.000013 U	0.000013 U	0.000013 U
Dibenz(a,h)anthracene	0.000029	0.46	0.00083 U	0.00083 U	0.00083 UJ
Dibenzofuran	0.0058		0.0012 U	0.0012 U	0.0012 U
Di-n-butyl phthalate	0.67		0.000071 U	0.000071 U	0.000071 U
Diethylphthalate	11		0.0011 U	0.0011 U	0.0011 U
Dimethylphthalate			0.000074 U	0.000074 U	0.000074 U
Di-n-octyl phthalate			0.000012 U	0.000012 U	0.00009
Fluoranthene	0.63		0.000008 U	0.000008 U	0.000008 U
Fluorene	0.22		0.0007 U	0.0007 U	0.0007 U
Hexachlorobutadiene	0.0026		0.0006 U	0.0006 U	0.0006 U
Hexachlorobenzene	0.001		0.00011 U	0.00011 U	0.00011 U
Hexachlorocyclopentadiene	0.05		0.00079 U	0.00079 U	0.00079 U
Hexachloroethane	0.0051		0.000012 U	0.000012 U	0.00006
Indeno(1,2,3-cd)pyrene	0.00029		0.00093 U	0.00093 U	0.00093 UJ
Isophorone	0.67		0.000012 U	0.000012 U	0.000012 U
Napthalene	0.0014		0.00087 U	0.00087 U	0.00087 U
Nitrobenzene	0.0012		0.001 U	0.001 U	0.001 U
Nitrophenol					
N-Nitrosodi-n-propylamine	0.000093		0.00089 U	0.00089 U	0.00089 U

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name: Sample ID No.:	IDEM Screening Levels (2014)		Old Madison St	Old Madison St	Old Madison St
	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	OMS-MW01	OM-MW01 DUP	OMS-MW02
Sample Date:			08/25/09	08/25/09	08/25/09
Sample Depth (ft):			Unknown	Unknown	Unknown
Sampled By:			URS	URS	URS
N-nitrosodiphenylamine	0.1		0.0012 U	0.0012 U	0.0012 U
Pentachlorophenol	0.001		0.00057 U	0.00057 U	0.00057 U
Phenanthrene			0.000013 U	0.000013 U	0.00003 J
Phenol	4.5		0.00016 U	0.00016 U	0.00016 U
Pyrene	0.087		0.00003	0.00003	0.00012
Pesticides/Herbicides					
4,4'-DDD	0.27				
4,4'-DDE	2				
4,4'-DDT	2				
Aldrin	0.04				
alpha-HCH (alpha-BHC)	0.062				
alpha-Chlordane					
beta-HCH (beta-BHC)	0.22				
Chlordane	2				
Dieldrin	0.015				
Endosulfan (Endosulfan I)	78				
Endosulfan (Endosulfan II)					
Endosulfan sulfate					
Endrin	2				
Endrin aldehyde					
Endrin ketone					
gamma-HCH (Lindane)	0.2				
gamma-Chlordane					
Heptachlor	0.4				
Heptachlor epoxide	0.2				
Methoxychlor	40				
Toxaphene	3				
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	120				
2,4,5-TP (Silvex)	50				
2,4-Dichlorophenoxyacetic acid (2,4-D)	70				
2,4-DB	91				
Dalapon	200				
Dicamba	440				
Dichloroprop					
Dinoseb	7				

Notes:

Red indicates value exceeds residential GW IDEM screening level

Yellow indicates value exceeds com/ind vapor exposure screening level

U: Not detected. Value shown is the reporting limit.

Table 2: Summary of Groundwater Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)		Old Madison St	Old Madison St	Old Madison St
	Sample ID No.:	Residential Groundwater (mg/l)	Commercial/Industrial Vapor Exposure (mg/l)	OMS-MW01	OM-MW01 DUP
Sample Date:	08/25/09			08/25/09	08/25/09
Sample Depth (ft):	Unknown			Unknown	Unknown
Sampled By:	URS			URS	URS

J: Estimated concentration as the result was below the sample reporting limit or quality control criteria were not met.

UJ: Not detected at or above the sample reporting limit.

R: Rejected data.

QC: The result for 1 or more QC measurements associated with this sample did not meet lab and/or source method acceptance criteria.

<: Less than the method detection limit.

B: Analyte was found in blank and sample.

A: Concentration of analyte detected in sample is characteristic of a lab artifact.

Table 3: Summary of Sediment Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPSD01
Sample Date:					2002
Sample Depth (ft):					Unknown
Sampled By:					URS
VOCs					
1,1,1,2-Tetrachloroethane	27	93	680	0.038	0.008 UJ
1,1,1-Trichloroethane	640	640	640	1.4	0.008 U
1,1,2,2-Tetrachloroethane	7.8	28	1900	0.0052	0.008 UJ
1,1,2-Trichloroethane	2.2	6.8	11	0.032	0.008 U
1,1-Dichloroethane	46	170	1700	0.14	0.008 U
1,1-Dichloroethylene	340	1100	1200	0.05	0.008 U
1,2-Dichloroethane	6	22	250	0.028	0.008 U
1,2-Dichloropropane	13	47	120	0.033	0.008 U
1,2-Dichloroethylene (cis-)	220	2000	2400	0.41	0.008 U
1,2-Dichloroethylene (trans-)	210	690	1200	0.59	0.008 U
1,3-Dichloropropane (cis-)					0.008 U
1,3-Dichloropropane (trans-)	24	83	570	0.029	0.008 U
4-Methyl-2-pentanone (MIBK)	3400	3400	3400	4.5	0.008 U
Acetone (2-Propanone)	85000	100000	100000	49	0.008 U
Acrolein	0.21	0.65	1.1	0.00017	0.32 U
Benzene	15	54	750	0.051	0.008 U
Bromodichloromethane	3.8	14	930	0.43	0.008 U
Bromoform (tribromomethane)	870	2200	20000	0.42	0.008 UJ
Bromomethane	10	32	54	0.035	0.008 U
Carbon disulfide	740	740	740	4.2	0.008 U
Carbon tetrachloride	8.5	30	460	0.039	0.008 U
Chlorobenzene	410	760	760	1.4	0.008 UJ
Chloroethane	2100	2100	2100	120	0.008 U
Chloroform	4.1	15	1800	0.44	0.008 U
Ethylbenzene	76	270	480	16	0.008 UJ
2-Butanone (MEK)	28000	28000	28000	21	0.008 U
Methyl-tert-butyl-ether	600	2200	8900	0.54	0.008 U
Methylene chloride	500	3100	3300	0.025	0.008 U
n-Butanol	8500	62000	100000	6.2	0.64 U
Styrene	870	870	870	2.2	0.008 UJ
Tetrachloroethylene	120	170	170	0.045	0.008 U
Toluene	820	820	820	14	0.008 U
Xylene (total)	260	260	260	200	0.008 UJ
Trichloroethylene	6.2	20	34	0.036	0.008 U
Vinyl acetate	1400	2800	2800	1.7	0.008 U
Vinyl chloride (chloroethane)	0.84	17	660	0.014	0.008 U
Metals					
Aluminum	100000	100000	100000	480000	13000

Table 3: Summary of Sediment Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPSD01
Sample Date:					2002
Sample Depth (ft):					Unknown
Sampled By:					URS
Antimony	43	410	690	5.4	2.4 U
Arsenic	8.5	24	640	5.9	24
Barium	21000	100000	100000	1700	160
Beryllium	220	2000	3300	63	0.75
Cadmium	98	800	1300		3
Chromium	100000	100000	100000	1000000	43
Cobalt	32	300	520	4.3	13
Copper	4300	41000	69000	920	100
Cyanide, free	31	140	230	40	0.63 U
Lead	400	800	1000	270	130
Mercury	3.1	3.1	3.1	2.1	0.14
Molybdenum	550	5100	8600	32	7.5
Nickel	2100	20000	32000	390	42
Selenium	550	5100	8600	5.3	1.8
Silver	550	5100	8600	12	0.61 U
Strontium	66000	100000	10000	6600	100
Thallium	1.1	10	17	2.9	1.2 U
Vanadium	550	5100	8700	1300	29
Zinc	32000	100000	100000	5900	510
PCBs					
Arochlor 1016	5.5	37	63	2.1	0.12 UJ
Arochlor 1221	2	5.4	390	0.014	0.024 UJ
Arochlor 1232	2	5.4	73	0.014	0.12 UJ
Arochlor 1242	3.1	7.4	460	1.1	0.024 UJ
Arochlor 1248	3.1	7.4	460	1	0.12 UJ
Arochlor 1254	1.5	7.4	18	1.6	0.2 J
Arochlor 1260	3.1	7.4	460	4.8	0.21 J
SVOCs					
1,2,4-Trichlorobenzene	87	270	400	4.1	0.47 U
1,2-Dichlorobenzene	380	380	380	12	0.47 U
1,3-Dichlorobenzene					0.47 U
1,4-Dichlorobenzene	34	120	17000	1.4	0.47 U
2,2-Oxybis (1-chloropropane)					0.47 U
2,4,5-Trichlorophenol	8500	62000	100000	67	2.4 U
2,4,6-Trichlorophenol	85	620	1000	0.68	0.47 U
2,4-Dichlorophenol	250	1800	3100	0.83	0.47 U
2,4-Dimethylphenol	1700	12000	20000	6.4	0.47 U
2,4-Dinitrophenol	170	1200	2000	0.67	2.4 U
2,4-Dinitrotoluene	22	55	2000	0.054	0.47 U

**Table 3: Summary of Sediment Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel**

Property Name: Sample ID No.: Sample Date: Sample Depth (ft): Sampled By:	IDEM Screening Levels (2014)				George
	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPSD01
					2002
					Unknown
					URS
2,6-Dinitrotoluene	4.6	12	310	0.012	0.47 U
2-Chlorophenol	550	5100	8600	1.2	0.47 U
2-Methylphenol (o-cresol)	4300	31000	52000	12	0.47 U
2-Nitroaniline	850	6000	9900	1.3	2.4 U
3,3-Dichlorobenzidine	15	38	2200	0.14	0.95 U
p-Chloroaniline (4-chloroaniline)	34	86	4200	0.027	0.47 U
4-Methylphenol (p-cresol)	8500	62000	100000	22	0.47 U
Acenaphthene	4800	33000	55000	82	0.47 U
Anthracene	24000	100000	100000	860	0.47 U
Benz(a)anthracene	2.1	21	1300	2.1	0.16 J
Benzo(a)pyrene	0.21	2.1	130	4.7	0.27 J
Benzo(b)fluoranthene	2.1	21	1300	7	0.32 J
Benzo(k)fluoranthene	21	210	13000	68	0.39 J
Benzoic acid	100000	100000	100000	270	2.4 U
Benzyl alcohol	8500	62000	100000	7.3	0.47 U
Bis(2-chloroethyl)ether	2.9	10	750	0.00063	0.47 U
Bis(2-ethylhexyl)phthalate	490	1200	20000	29	0.47 U
Butylbenzylphthalate	3600	9100	100000	41	0.47 U
Carbazole					0.49
Chrysene	210	2100	100000	210	0.27 J
Dibenz(a,h)anthracene	0.21	2.1	130	2.2	0.47 U
Dibenzofuran	110	1000	1700	2.1	0.47 U
Di-n-butyl phthalate	8500	62000	100000	34	0.47 U
Diethylphthalate	69000	100000	100000	90	0.47 U
Dimethylphthalate					0.47 U
Di-n-octyl phthalate					0.47 U
Fluoranthene	3200	22000	37000	1400	0.3 J
Fluorene	3200	22000	37000	81	0.47 U
Hexachlorobutadiene	85	220	1000	0.1	0.47 U
Hexachlorobenzene	4.2	11	630	0.25	0.47 U
Hexachlorocyclopentadiene	520	3700	6200	3.1	0.47 U
Hexachloroethane	60	430	730	0.062	0.47 U
Indeno(1,2,3-cd)pyrene	2.1	21	1300	40	0.2 J
Isophorone	7100	18000	100000	4.4	0.47 U
Napthalene	50	180	1000	0.092	0.47 U
Nitrobenzene	67	240	2000	0.016	0.47 U
N-Nitrosodi-n-propylamine	0.97	2.5	140	0.0014	0.47 U
N-nitrosodiphenylamine	1400	3500	100000	11	0.47 U
Pentachlorophenol	12	27	2000	0.2	2.4 U

Table 3: Summary of Sediment Analytical Results
Newporte Landing Development Site: Pine Lake Avenue Parcel

Property Name:	IDEM Screening Levels (2014)				George
Sample ID No.:	Residential (mg/kg)	Com/Ind (mg/kg)	Excavation Worker (mg/kg)	Soil Migration to GW (mg/kg)	GPSD01
2002					
Unknown					
URS					
Sample Date:					
Sample Depth (ft):					
Sampled By:					
Phenanthrene					0.16 J
Phenol	25000	100000	100000	52	0.47 U
Pyrene	2400	17000	28000	190	0.32 J
Pesticides/Herbicides					
4,4-DDD	28	72	4200	1.3	0.024 U
4,4-DDE	20	51	3000	9.4	0.024 U
4,4-DDT	24	70	720	13	0.024 U
Aldrin	0.41	1	31	0.13	0.024 U
alpha-HCH (alpha-BHC)	1.1	2.7	160	0.0072	0.024 U
alpha-Chlordane					0.024 U
beta-HCH (beta-BHC)	3.8	9.6	560	0.026	0.024 U
Chlordane	22	65	680	2.7	0.047 U
Dieldrin	0.42	1.1	52	0.012	0.024 U
Endosulfan (Endosulfan I)					0.024 U
Endosulfan (Endosulfan II)					0.024 U
Endrin	25	180	310	1.6	0.024 U
gamma-HCH (Lindane)	7.3	21	410	0.023	0.024 U
gamma-Chlordane					0.024 U
Heptachlor	1.5	3.8	220	0.66	0.024 U
Heptachlor epoxide	0.74	1.9	13	0.082	0.024 U
Methoxychlor	430	3100	5200	43	0.12 U
Toxaphene	6.2	16	910	9.3	0.24 U
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	850	6200	10000	0.99	0.048 U
2,4,5-TP (Silvex)	690	4900	8200	0.55	0.048 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	970	7700	13000	0.36	0.48 U
2,4-DB	690	4900	8200	0.72	0.48 U
Dalapon	2500	18000	31000	0.83	0.48 U
Dicamba	2500	18000	31000	2.3	0.048 U
Dichloroprop					0.48 U
Dinoseb	85	620	1000	1.2	0.048 U

Notes:

Red indicates value exceeds USEPA Region 5 ESL

Yellow indicates value exceeds IDEM soil migration to GW screening level (2014)

U: Not detected. Value shown is the reporting limit.

J: Estimated concentration as the result was below the sample reporting limit or quality control criteria were not met.

UJ: Not detected at or above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of reporting necessary to accurately measure the analyte in the sample.

Samples not analyzed for this analyte.

APPENDIX B

SSI Photographic Logs

**PHOTOGRAPHIC LOGS
FOR
WASTE PILE SAMPLES**

GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

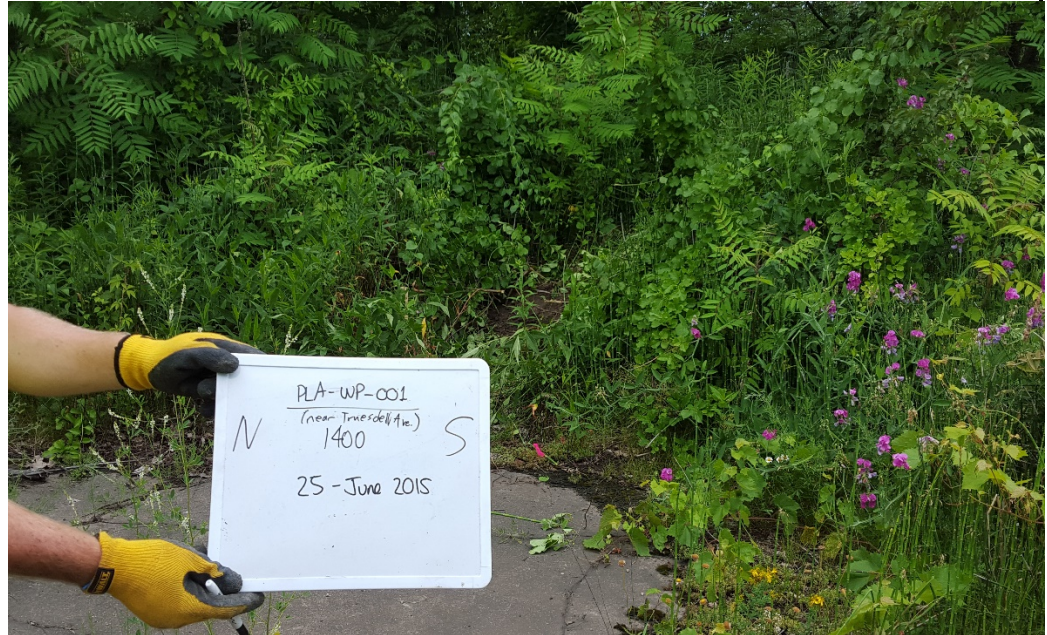
Site Location: La Porte, IN

PLA-WP-001

Date:
6/25/2015 1:50 PM

Direction: E

Comments: Aliquot location #1 for the composite sample. An aliquot was also collected from this location for VOC analysis.



PLA-WP-001

Date:
6/25/2015 1:51 PM

Direction: S

Comments: Aliquot location #2 for the composite sample.



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-WP-001

Date:
6/25/2015 1:52 PM

Direction: SW

Comments:
Aliquot location #3
for the composite
sample.

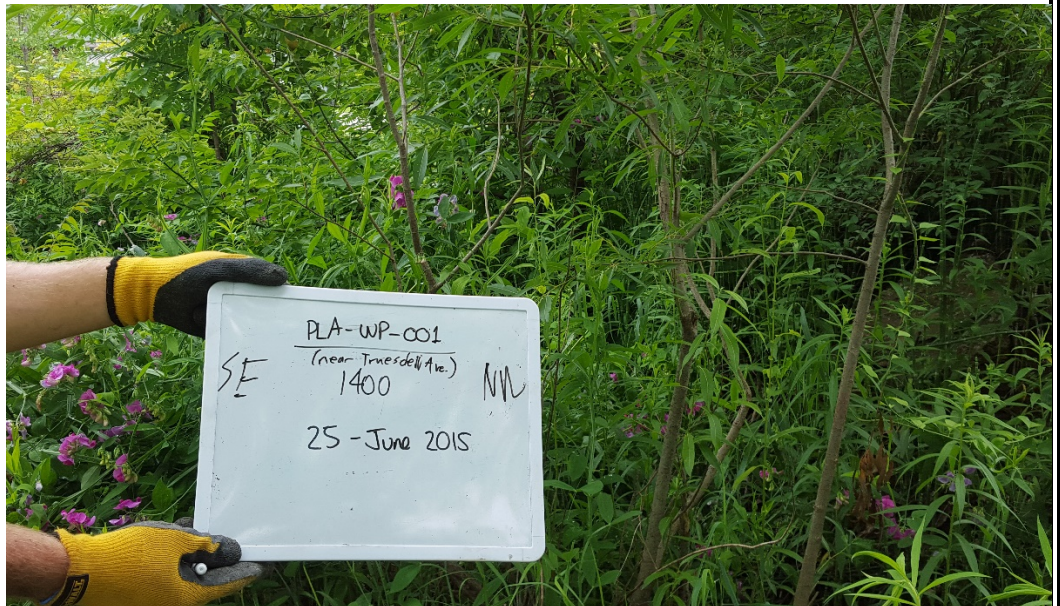


PLA-WP-001

Date:
6/25/2015 1:53 PM

Direction: SW

Comments:
Aliquot location #4
for the composite
sample.



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

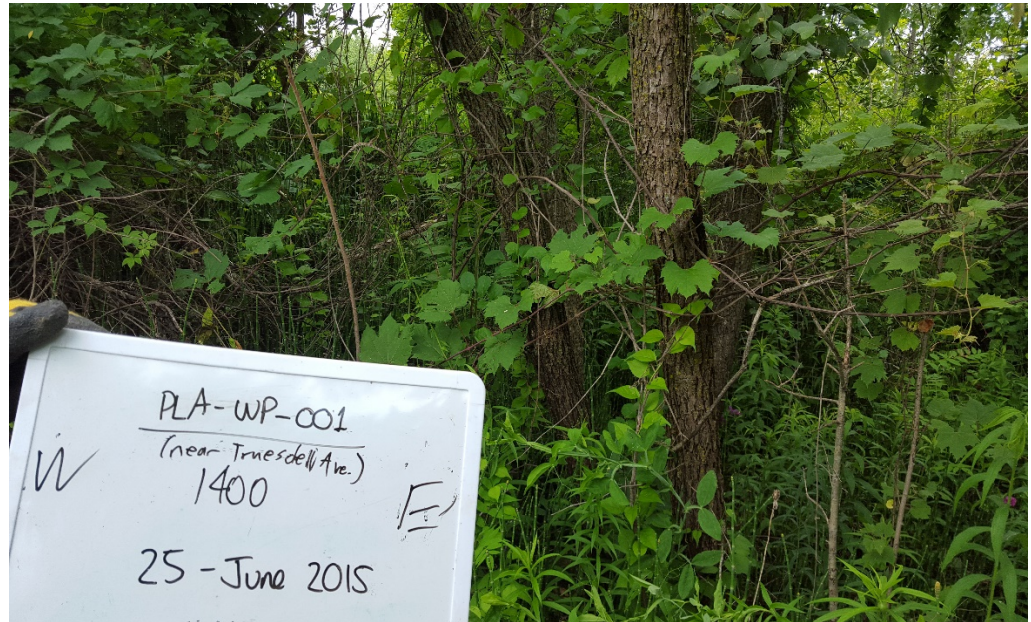
Site Location: La Porte, IN

PLA-WP-001

Date:
6/25/2015 1:53 PM

Direction: N

**Comments: Aliquot
location #5 for the
composite sample.**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-WP-002

Date:
6/25/2015 11:53 AM

Direction: E

Comments: Aliquot location #1 for the composite sample.



PLA-WP-002

Date:
6/25/2015 11:54 AM

Direction: E

Comments: Aliquot location #2 for the composite sample.



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-WP-002

Date:
6/25/2015 11:55 AM

Direction: S

Comments: Aliquot location #3 for the composite sample. An aliquot was also collected from this location for VOC analysis.

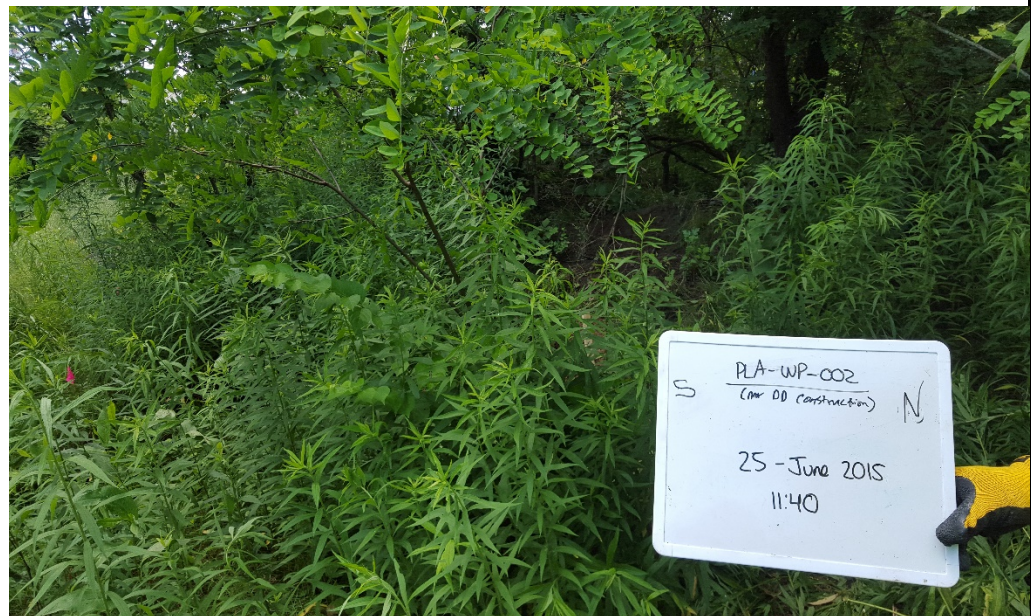


PLA-WP-002

Date:
6/25/2015 11:58 AM

Direction: W

Comments: Aliquot location #4 for the composite sample.



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-WP-002

Date:
6/25/2015 11:59 AM

Direction: N

Comments: Aliquot location #5 for the composite sample.



PLA-WP-002

Date: 6/25/2015 1:50 PM

Direction: E

Comments: Aliquot location #6 for the composite sample.



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-WP-003

Date:
6/25/2015 2:53 PM

Direction: E

Comments:
Aliquot location #1
for the composite
sample. An
aliquot was also
collected from this
location for VOC
analysis.



PLA-WP-003

Date:
6/25/2015 2:54 PM

Direction: S

Comments:
Aliquot location #2
for the composite
sample.



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

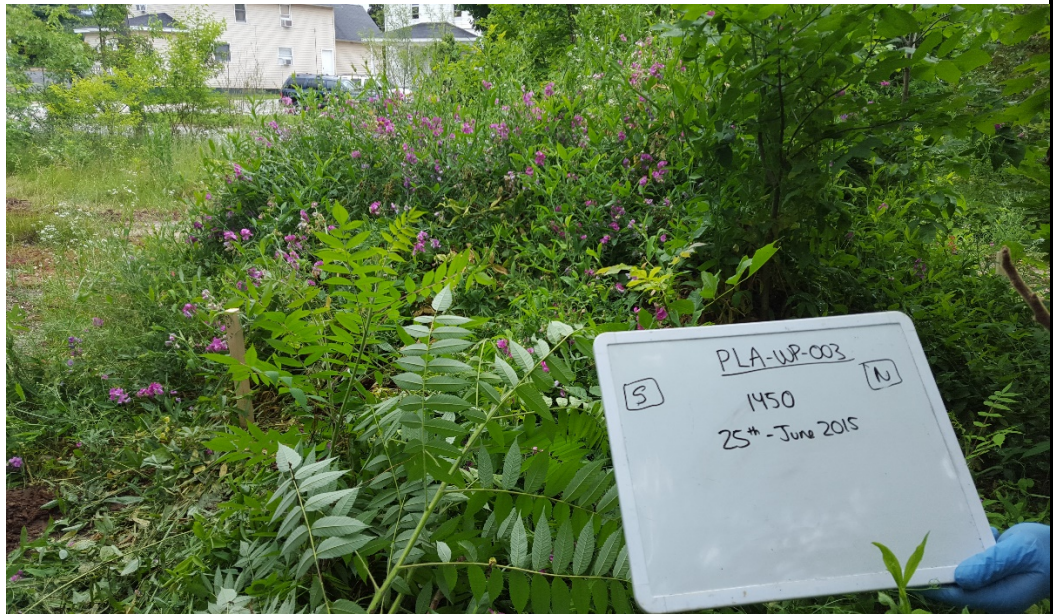
Site Location: La Porte, IN

PLA-WP-003

Date:
6/25/2015 2:54 PM

Direction: W

Comments:
Aliquot location #3
for the composite
sample.



PLA-WP-003

Date:
6/25/2015 2:55 PM

Direction: N

Comments:
Aliquot location #4
for the composite
sample.



**PHOTOGRAPHIC LOGS
FOR
SOIL SAMPLES**

GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

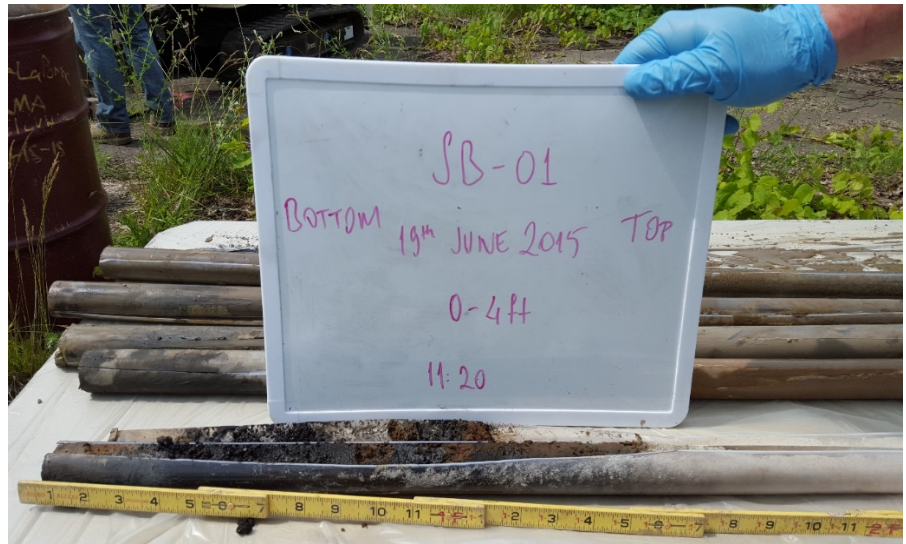
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB01-0-4

Date: 6/19/2015 10:24 AM

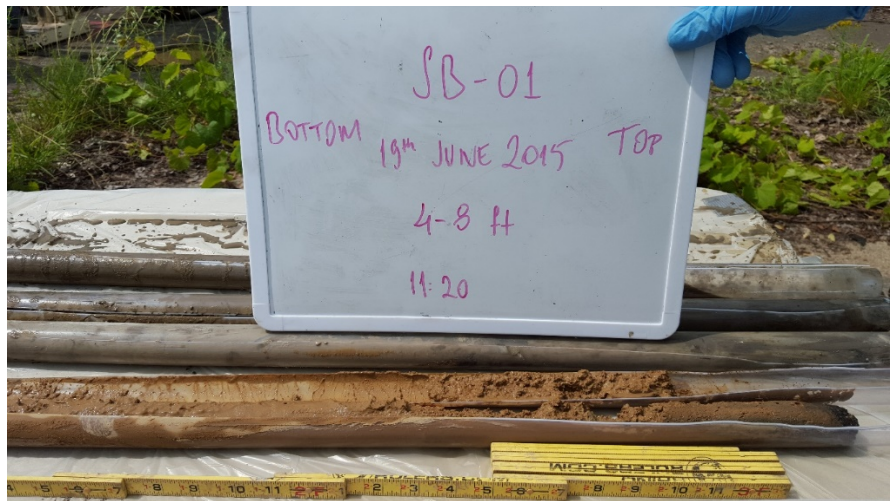
Comments: 0-4ft



PLA-S-GP-SB01-4-8

Date: 6/19/2015 10:25 AM

Comments: 4-8ft (top half)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

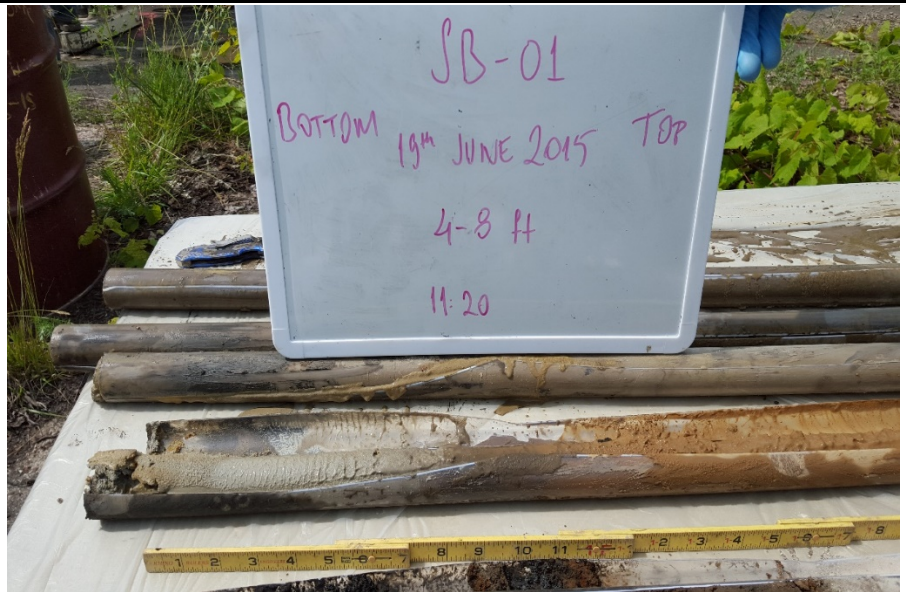
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB01-4-8

Date: 6/19/2015 10:25 AM

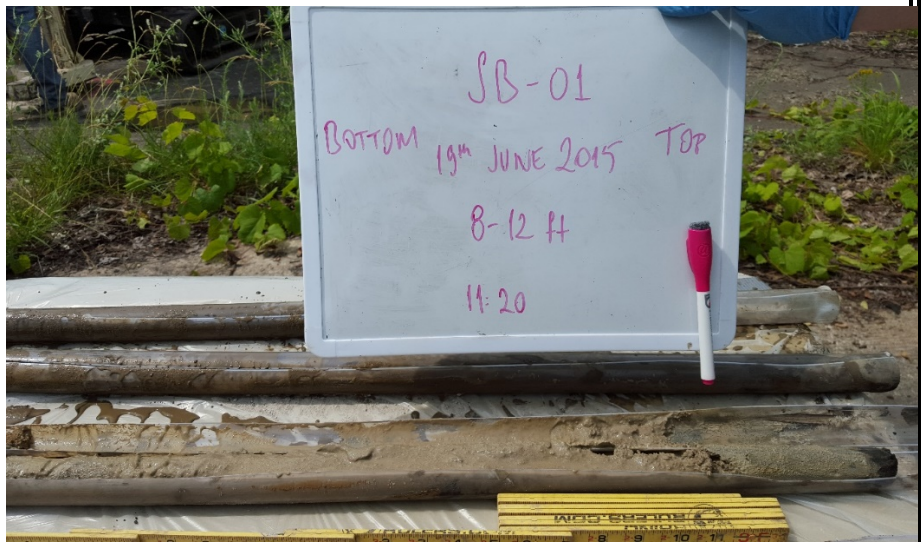
Comments: 4-8ft (bottom half)



PLA-S-GP-SB01-8-12

Date: 6/19/2015 10:26 AM

Comments: 8-12ft (top half)



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

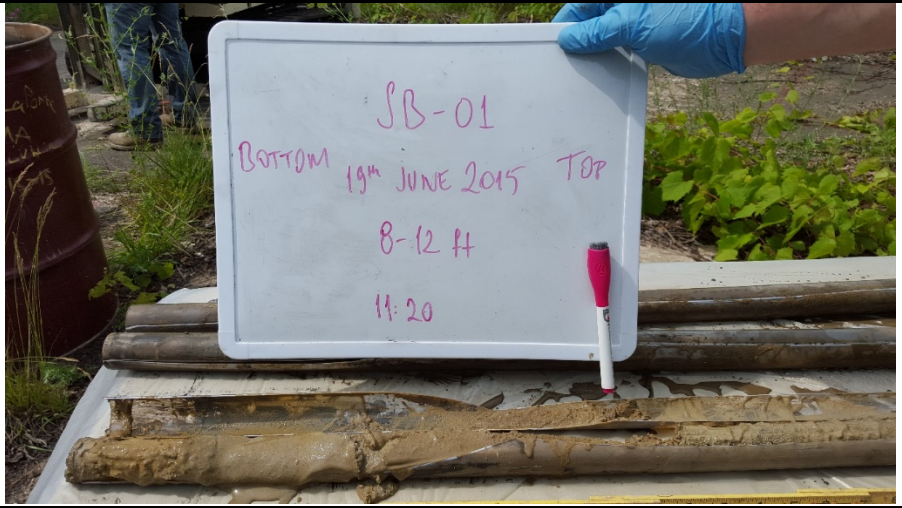
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB01-8-12

Date: 6/19/2015 10:26 AM

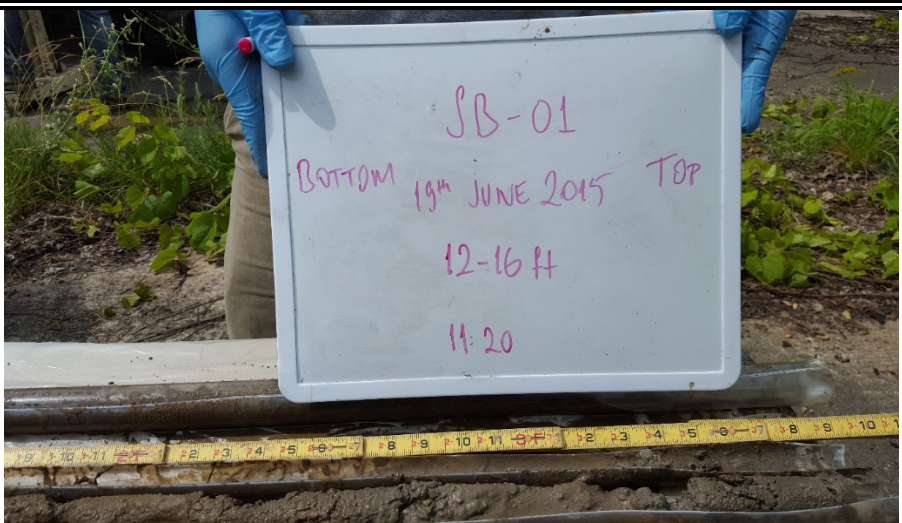
**Comments: 8-12ft
(bottom half)**



PLA-S-GP-SB01-12-16

Date: 6/19/2015 10:27 AM

**Comments: 12-16ft (top
half)**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

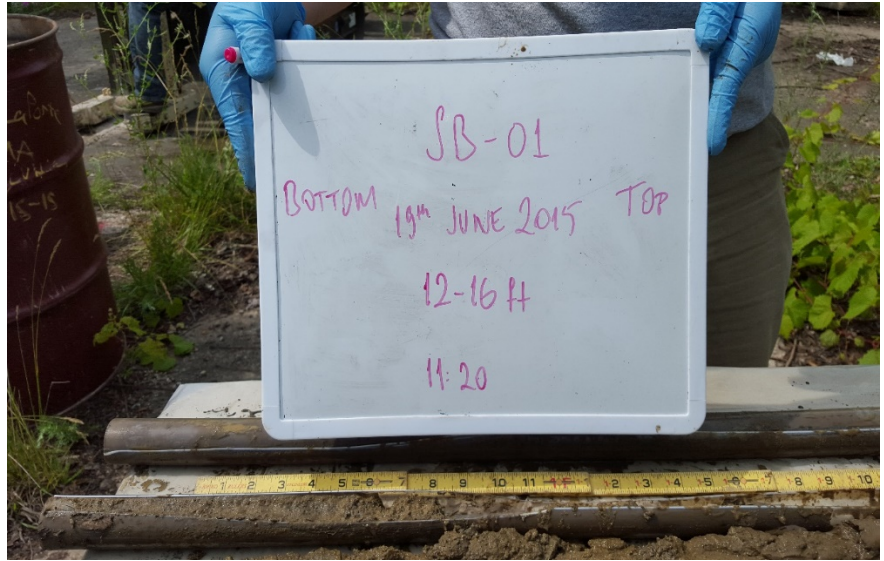
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB01-12-16

Date: 6/19/2015 10:27 AM

**Comments: 12-16ft
(bottom half)**



PLA-S-GP-SB01-16-20

Date: 6/19/2015 10:28 AM

**Comments: 16-20ft (top
half)**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-GP-SB01-
16-20**

**Date:
6/19/2015 10:28 AM**

**Comments: 16-20ft
(bottom half)**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

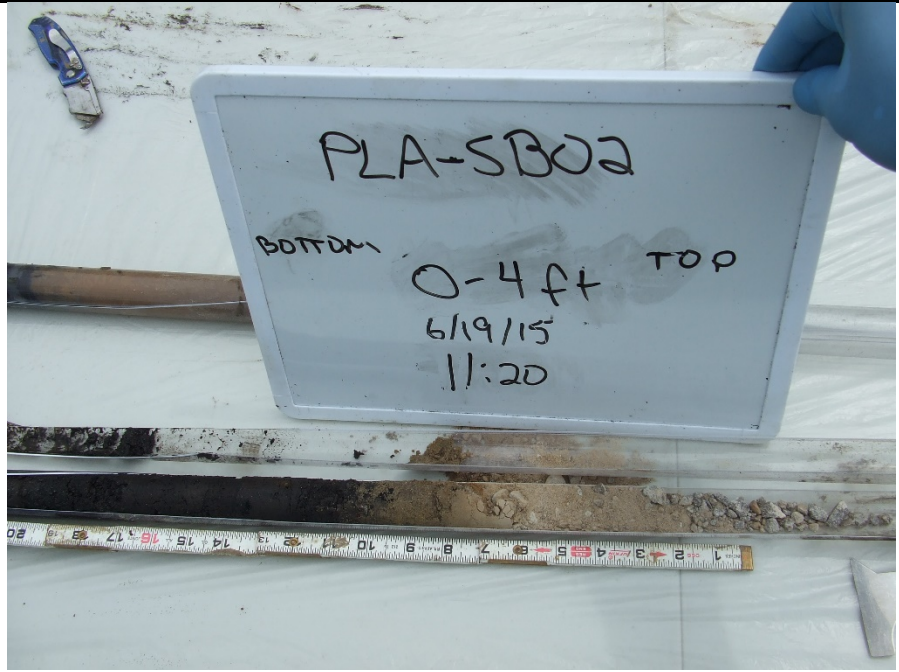
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB02-0-4

Date: 6/9/2015 11:25 AM

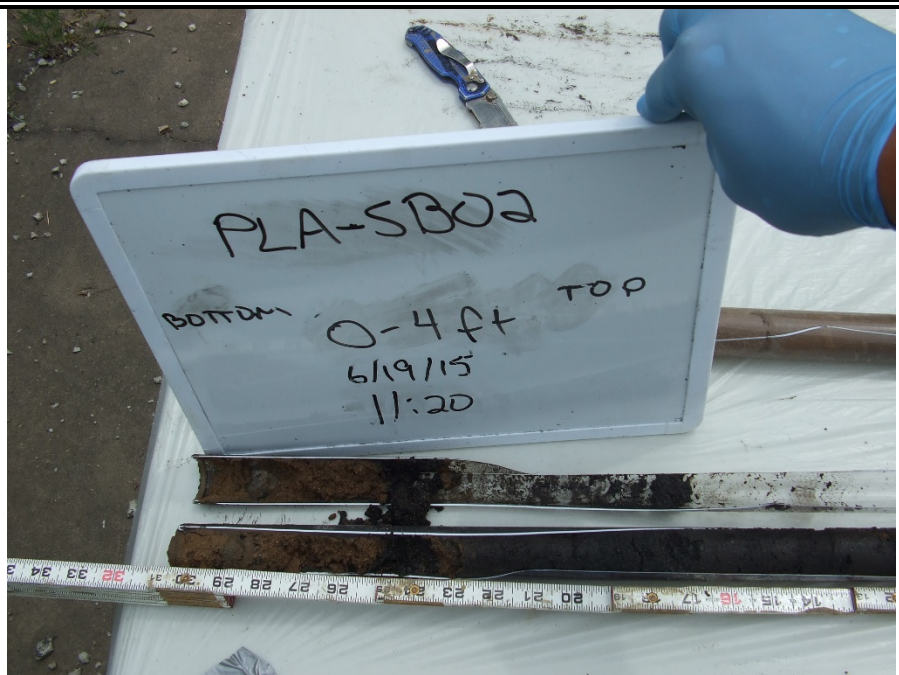
Comments: 0-4ft (top half)



PLA-S-GP-SB02-0-4

Date: 6/9/2015 11:25 AM

Comments: 0-4ft (bottom half)



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

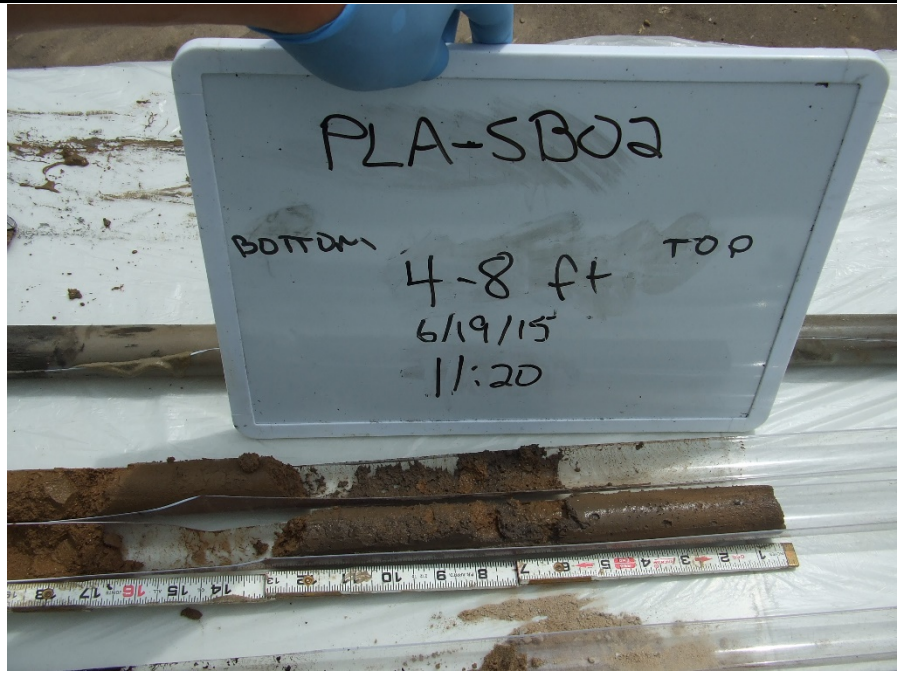
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB02-4-8

Date: 6/9/2015 11:26 AM

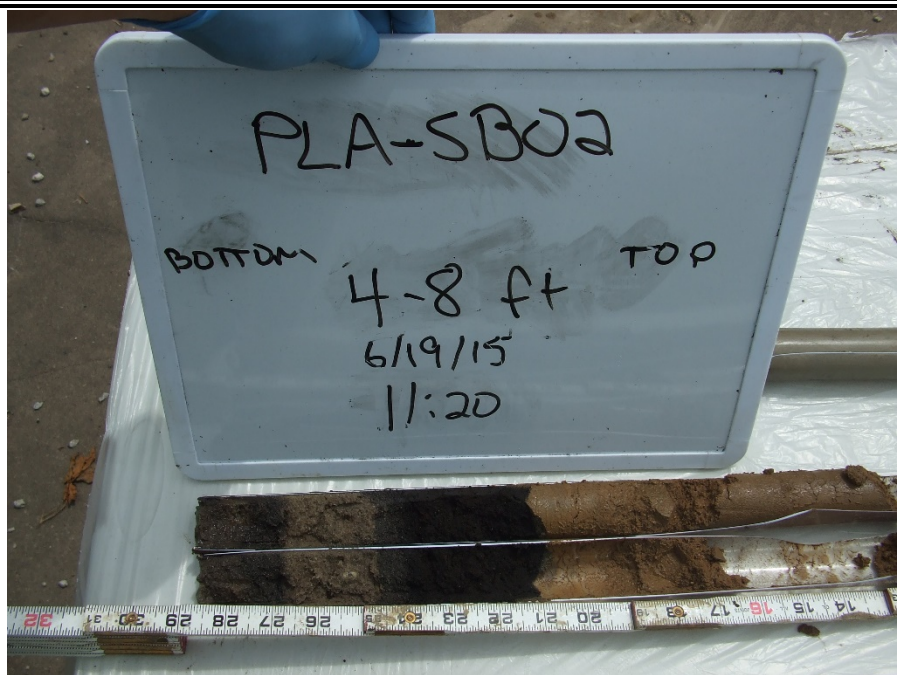
Comments: 4-8ft (top half)



PLA-S-GP-SB02-4-8

Date: 6/9/2015 11:26 AM

Comments: 4-8ft (bottom half)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

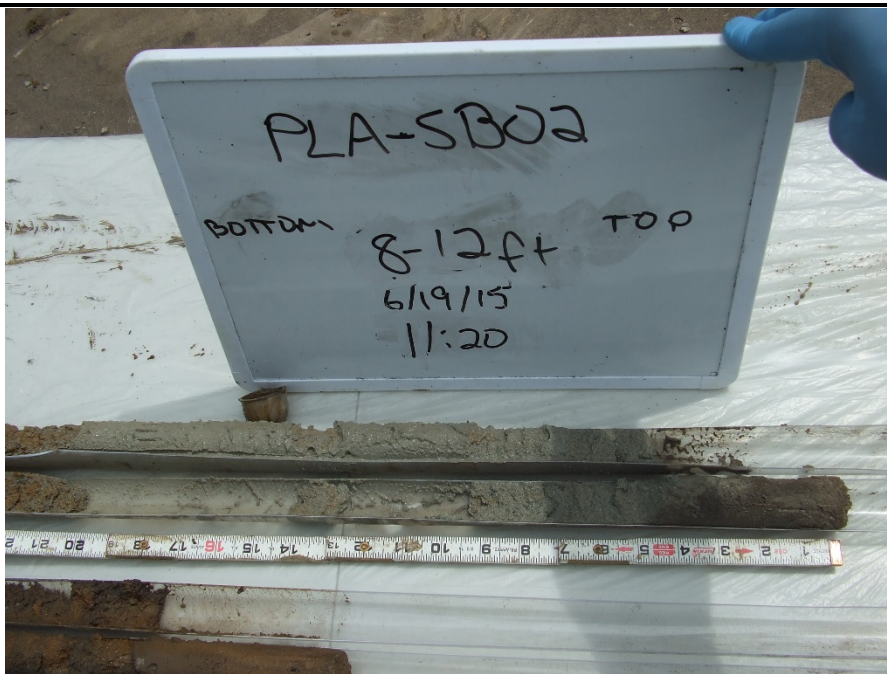
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB02-8-12

Date: 6/9/2015 11:27 AM

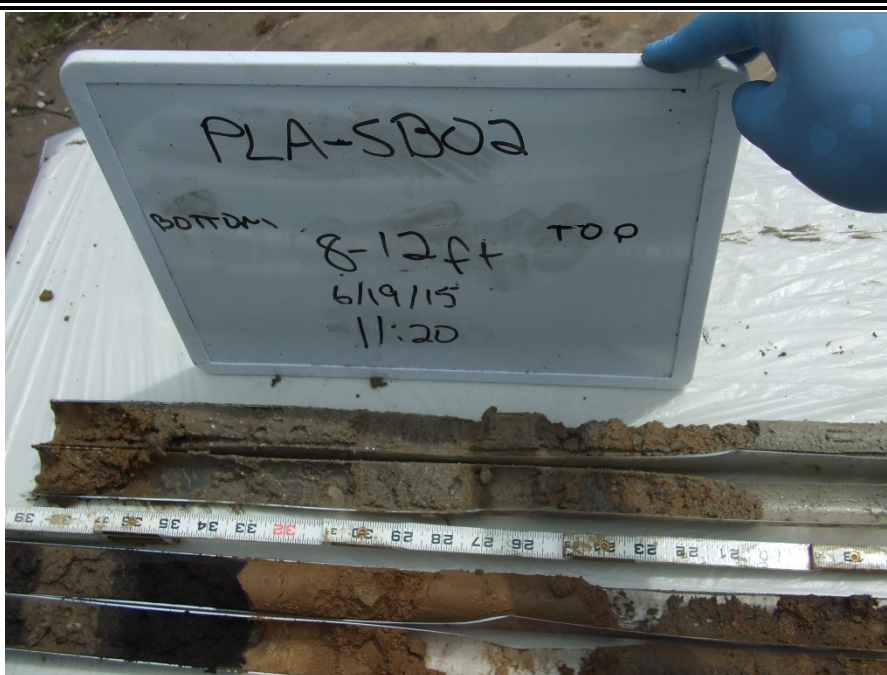
Comments: 8-12ft (top half)



PLA-S-GP-SB02-8-12

Date: 6/9/2015 11:27 AM

Comments: 8-12ft (bottom half)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

**Project Number:
CHR8417**

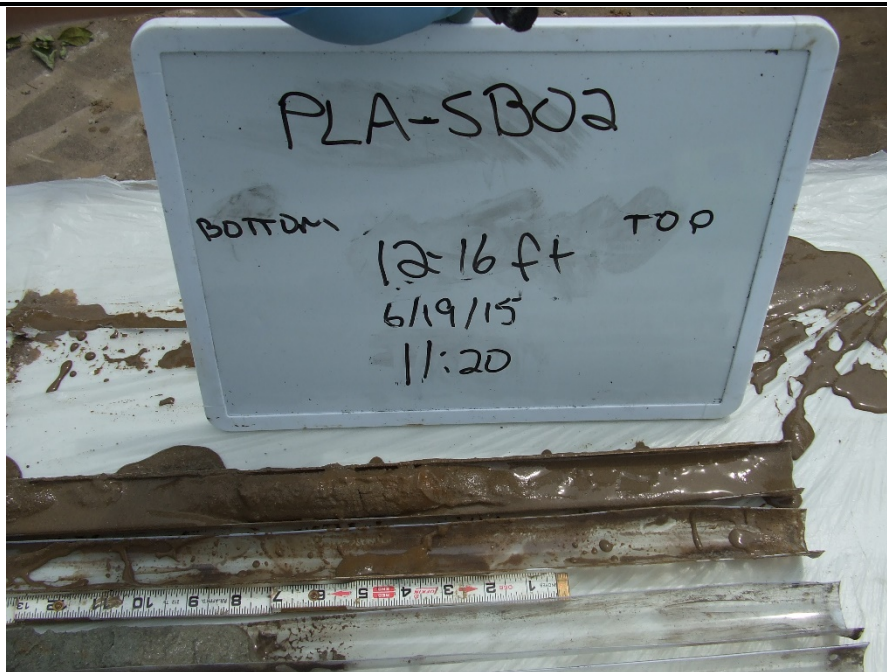
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB02-12-16

Date: 6/9/2015 11:29 AM

**Comments: 12-16ft (top
half)**



PLA-S-GP-SB02-12-16

Date: 6/9/2015 11:29 AM

**Comments: 12-16ft
(bottom half)**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

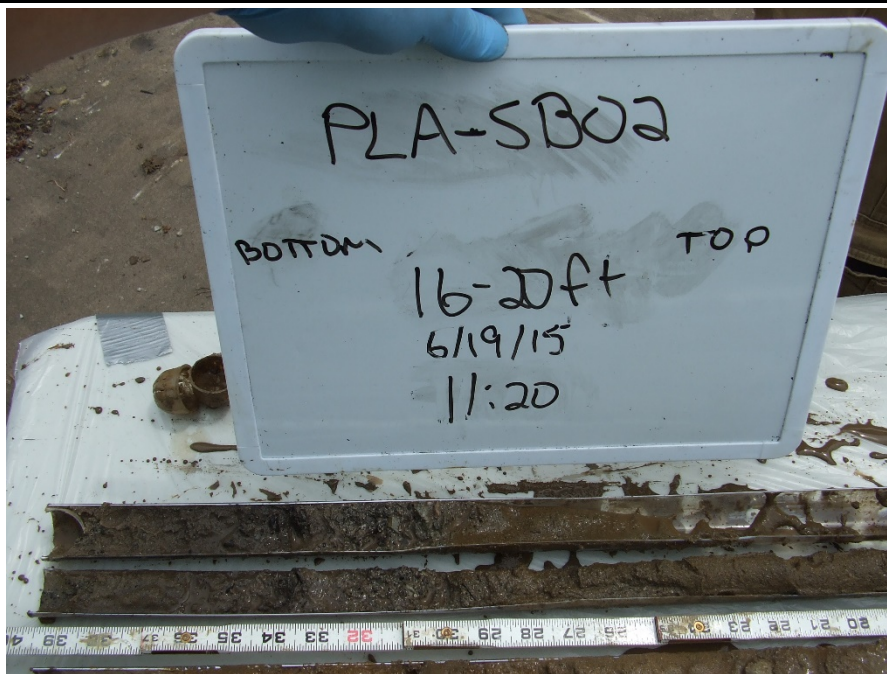
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB02-16-20

Date: 6/9/2015 11:31 AM

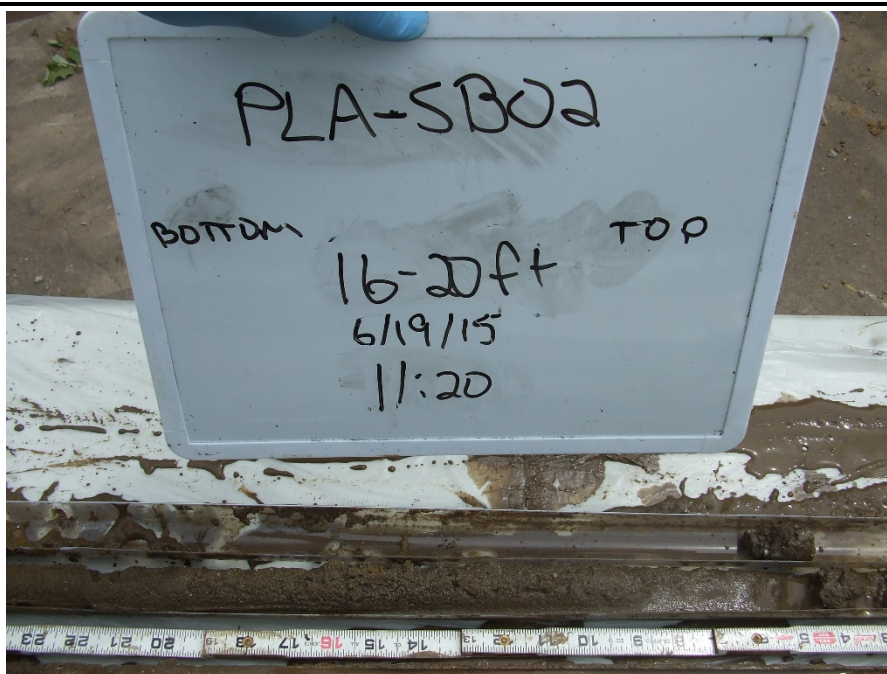
Comments: 16-20ft (top half)



PLA-S-GP-SB02-6-20

Date: 6/9/2015 11:31 AM

Comments: 16-20ft (bottom half)



GEOSYNTec CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

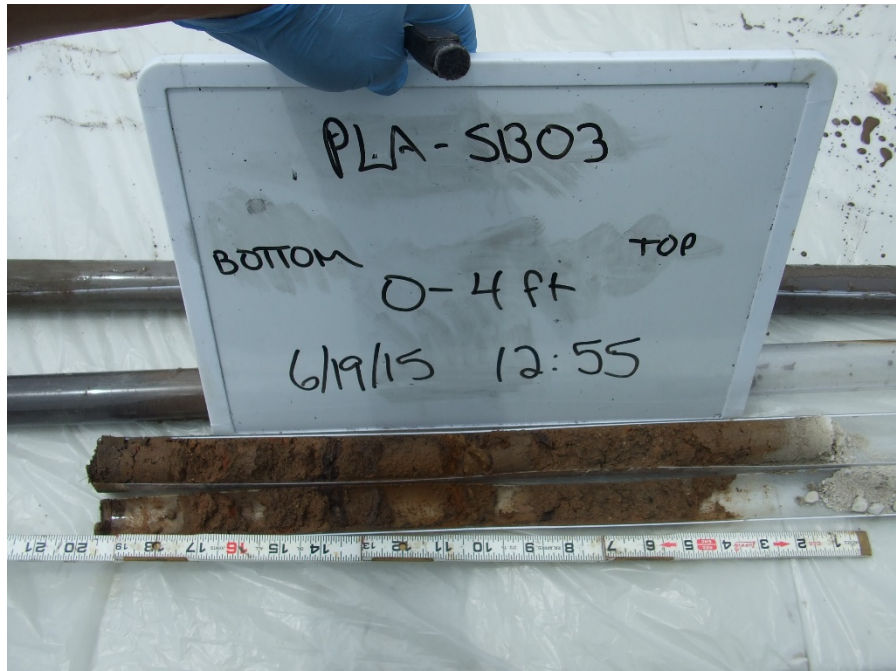
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB03-0-4

Date: 6/9/2015 1:00 PM

Comments: 0-4ft



PLA-S-GP-SB03-4-8

Date: 6/9/2015 1:01 PM

Comments: 4-8ft



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

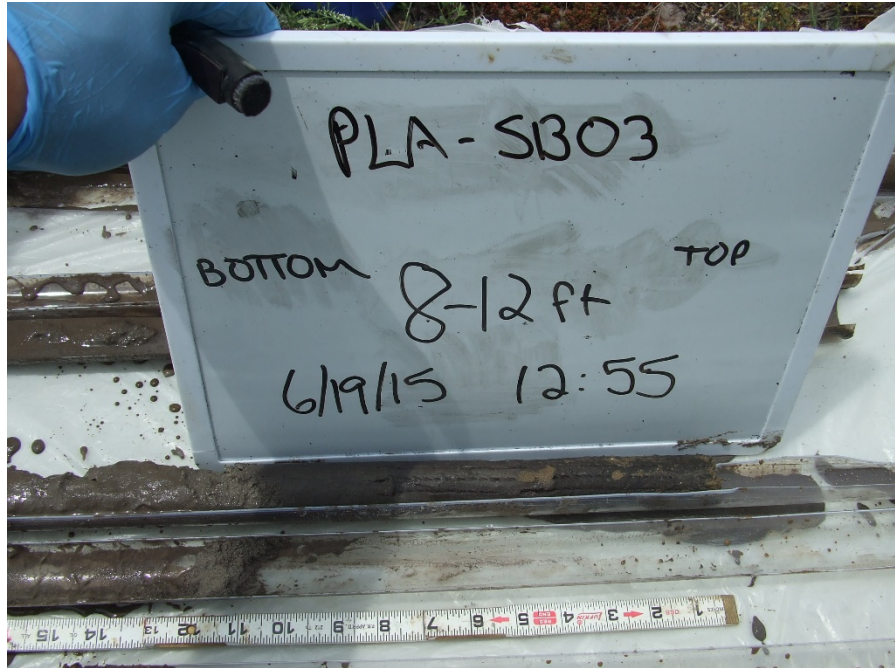
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB03-8-12

Date: 6/9/2015 1:03 PM

Comments: 8-12ft (top section)



PLA-S-GP-SB03-8-12

Date: 6/9/2015 1:03 PM

Comments: 8-12ft (middle section)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB03-8-12

Date: 6/9/2015 1:03 PM

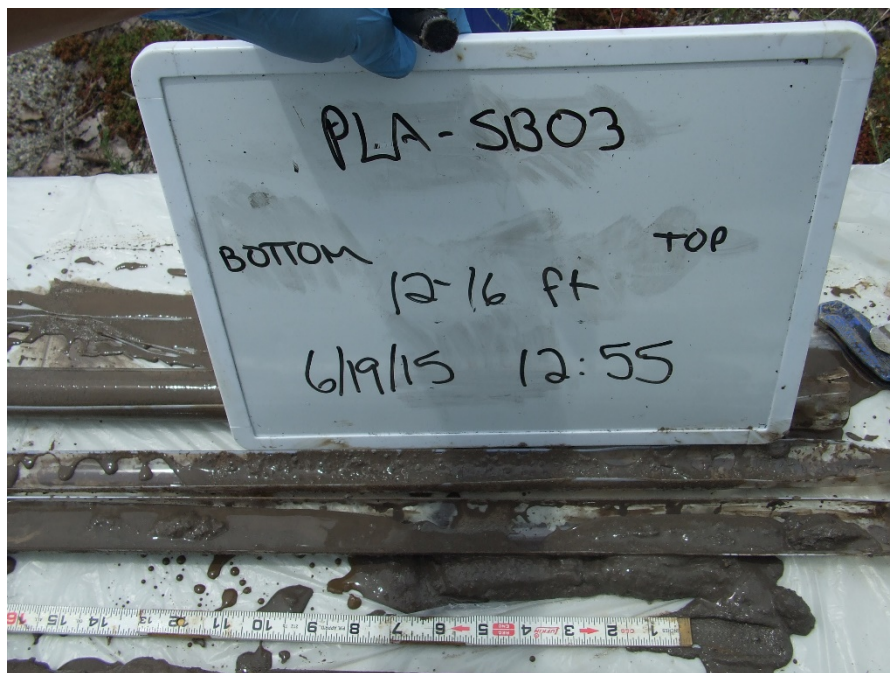
**Comments: 8-12ft
(bottom section)**



PLA-S-GP-SB03-12-16

Date: 6/9/2015 1:04 PM

**Comments: 12-16ft
(top section)**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

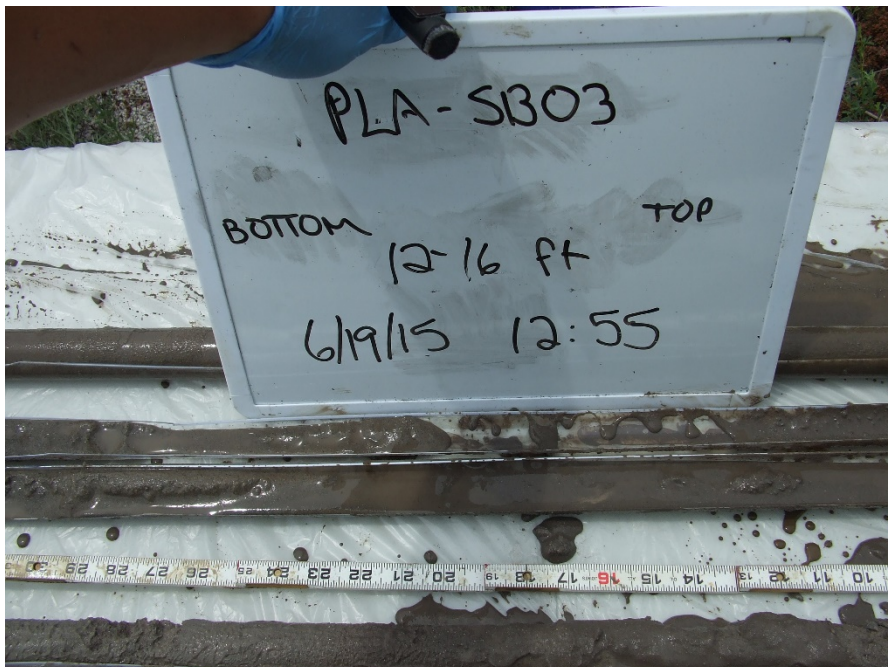
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB03-12-16

Date: 6/9/2015 1:04 PM

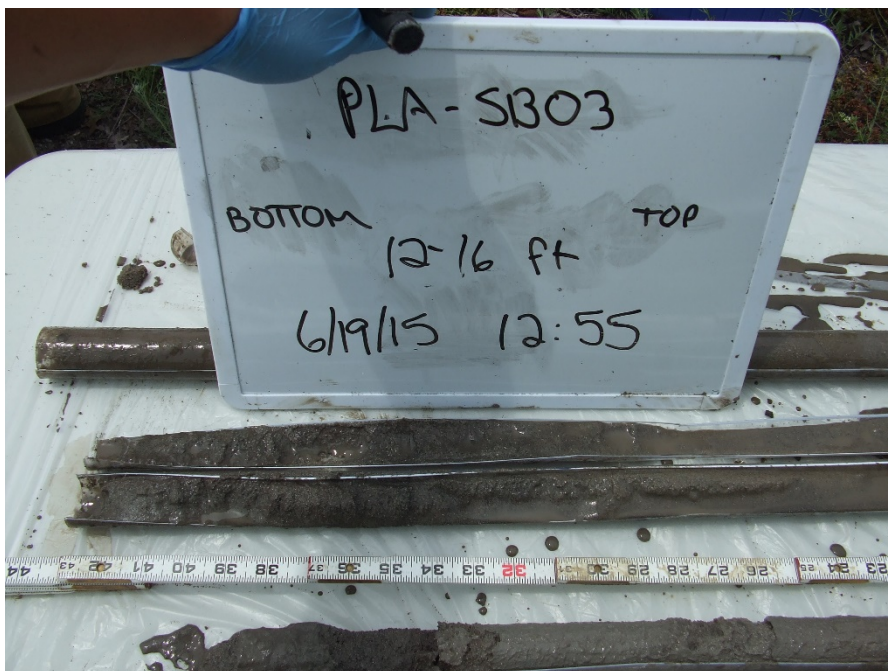
**Comments: 12-16ft
(middle section)**



PLA-S-GP-SB03-12-16

Date: 6/9/2015 1:04 PM

**Comments: 12-16ft
(bottom section)**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

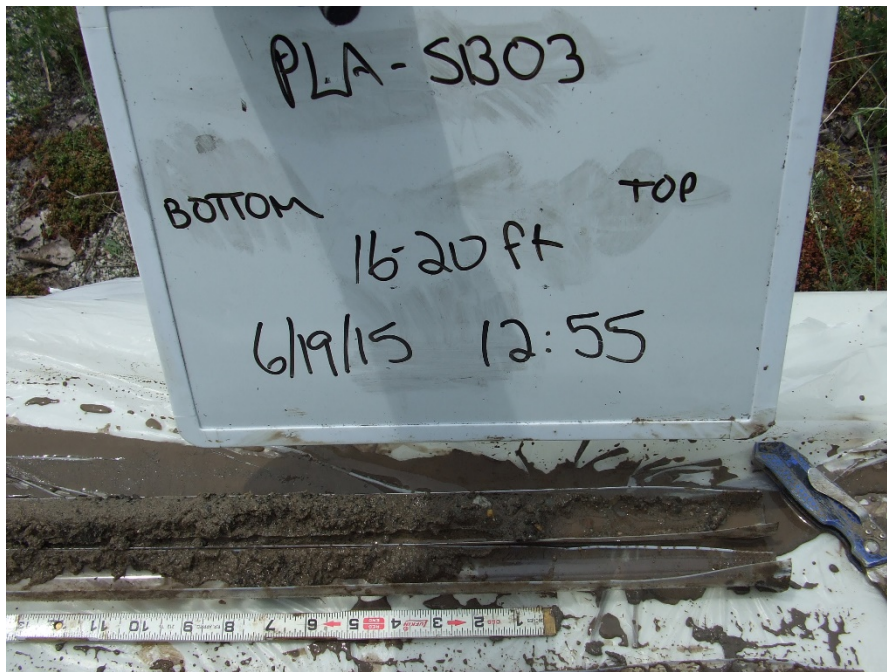
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB03-16-20

Date: 6/9/2015 1:05 PM

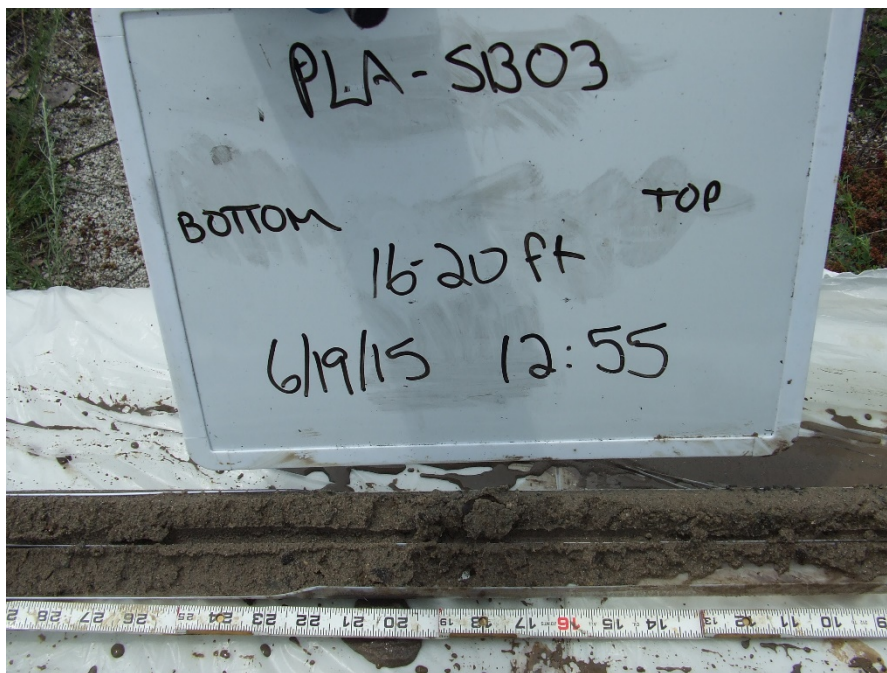
Comments: 16-20ft (top section)



PLA-S-GP-SB03-16-20

Date: 6/9/2015 1:05 PM

Comments: 16-20ft (middle section)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

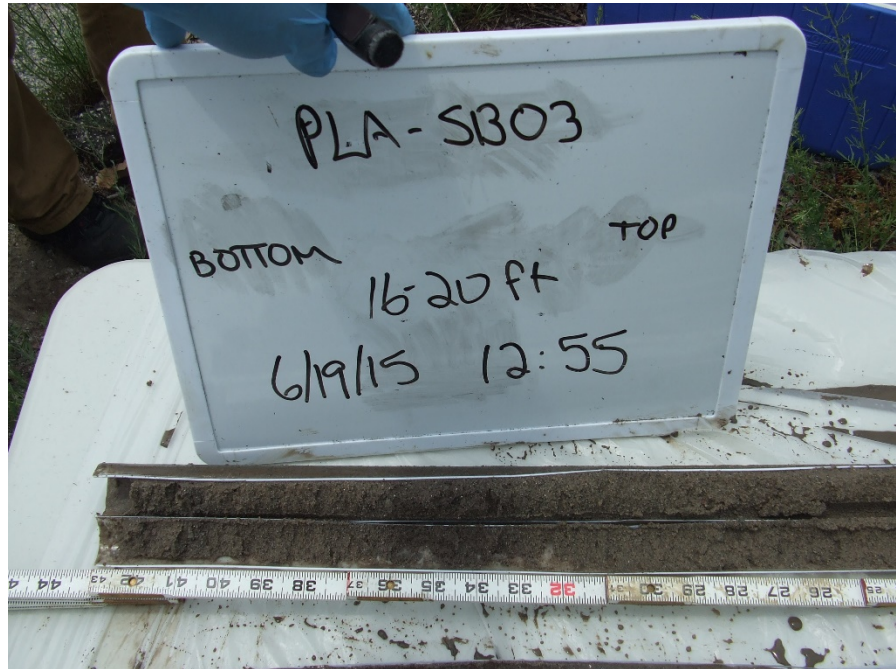
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB03-16-20

Date: 6/9/2015 1:05 PM

**Comments: 16-20ft
(bottom section)**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB04-0-4

Date: 6/22/2015 3:02 PM

Comments: 0-4ft



PLA-S-GP-SB04-4-8

Date: 6/22/2015 3:02 PM

Comments: 4-8ft



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB04-8-12

Date: 6/22/2015 3:03 PM

Comments: 8-12ft



PLA-S-GP-SB04-12-16

Date: 6/22/2015 3:04 PM

Comments: 12-16ft (top half)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB04-12-16

Date: 6/22/2015 3:04 PM

**Comments: 12-16ft
(bottom half)**



PLA-S-GP-SB04-16-20

Date: 6/22/2015 3:04 PM

**Comments: 16-20ft (top
half)**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB04-16-20

Date: 6/22/2015 3:04 PM

**Comments: 16-20ft
(bottom half)**



GEOSYNTec CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-GP-SB05-0-4

Date:
6/22/2015 12:02 PM

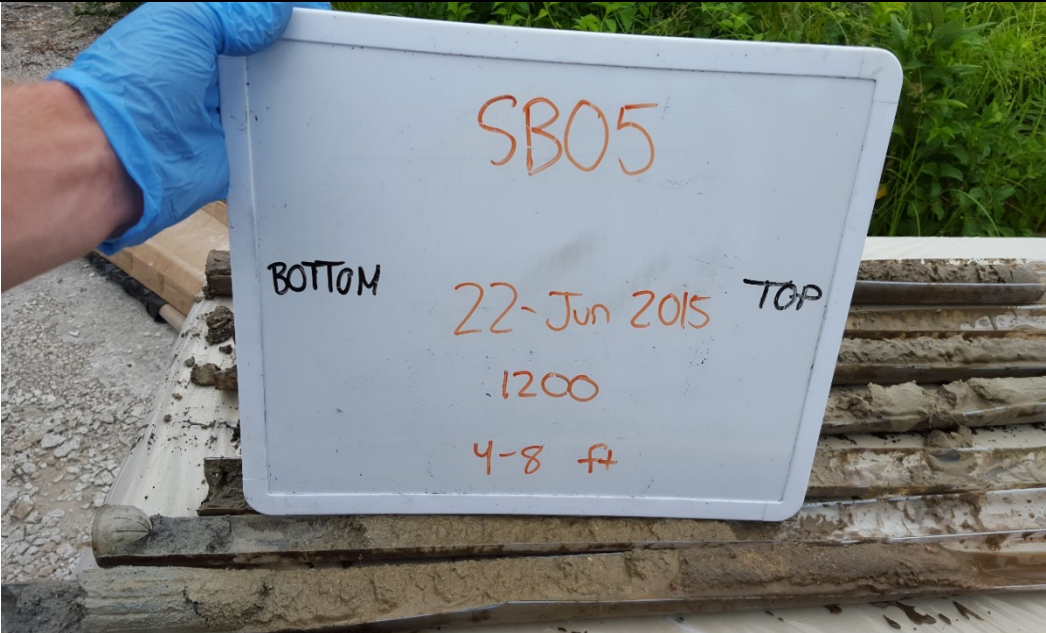
Comments: 0-4ft



PLA-S-GP-SB05-4-8

Date:
6/22/2015 12:03 PM

Comments: 4-8ft



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-GP-
SB05-8-12**

**Date:
6/22/2015 12:03
PM**

**Comments: 8-
12ft**



**PLA-S-GP-
SB05-12-16**

**Date:
6/22/2015 12:05
PM**

**Comments: 12-
16ft**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-GP-
SB05-16-20**

**Date:
6/22/2015 12:05
PM**

**Comments: 16-
20ft**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB06-0-4**

**Date:
6/23/2015 12:33
PM**

**Comments: 0-
4ft**



**PLA-S-FS-
SB06-4-8**

**Date:
6/23/2015 12:34
PM**

**Comments: 4-
8ft**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB06-8-12**

**Date:
6/23/2015 12:34
PM**

**Comments: 8-
12ft**



**PLA-S-FS-
SB06-12-16**

**Date:
6/23/2015 12:35
PM**

**Comments: 12-
16ft**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-FS-SB06-16-20

Date: 6/23/2015 12:37 PM

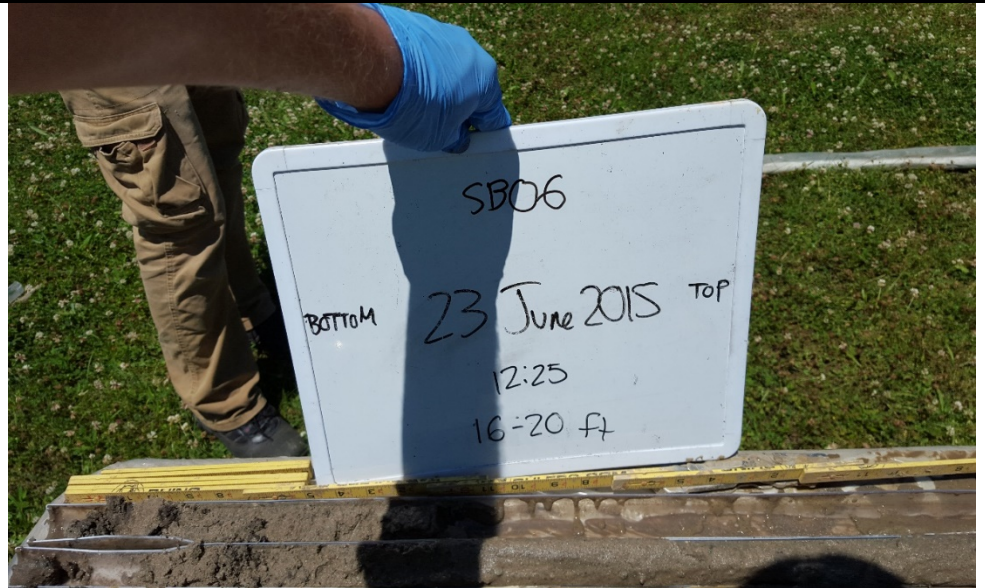
Comments: 16-20ft (top half)



PLA-S-FS-SB06-16-20

Date: 6/23/2015 12:37 PM

Comments: 16-20ft (bottom half)



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

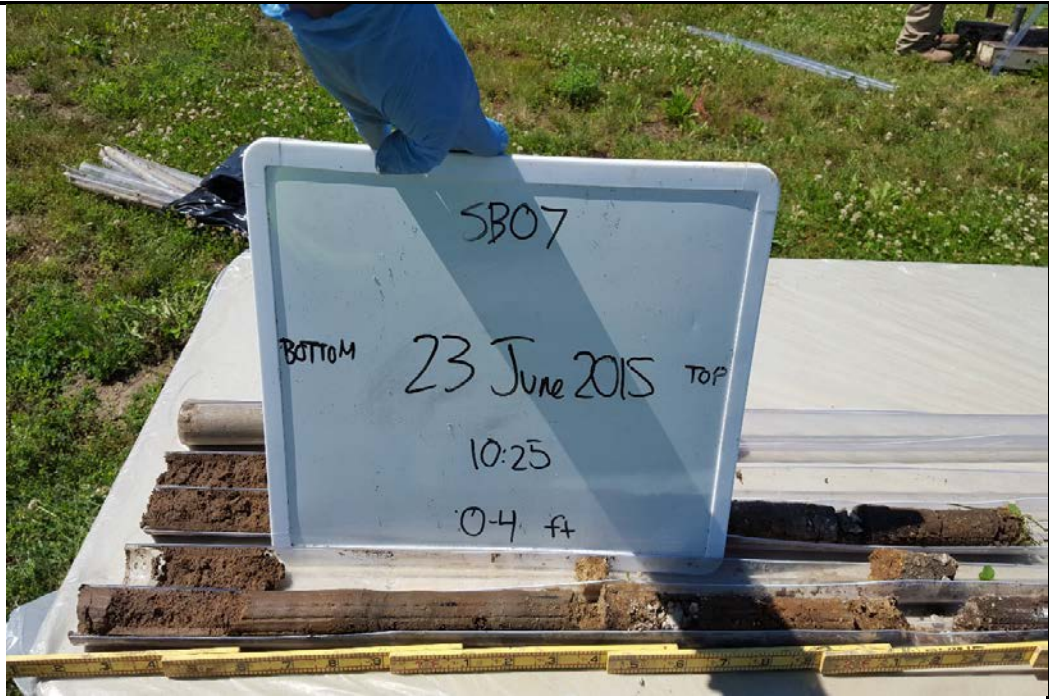
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB07-0-4**

**Date:
6/23/2015 10:25
AM**

**Comments: 0-
4ft**



**PLA-S-FS-
SB07-4-8**

**Date:
6/23/2015 10:26
AM**

**Comments: 4-
8ft**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB07-8-12**

**Date:
6/23/2015 10:27
AM**

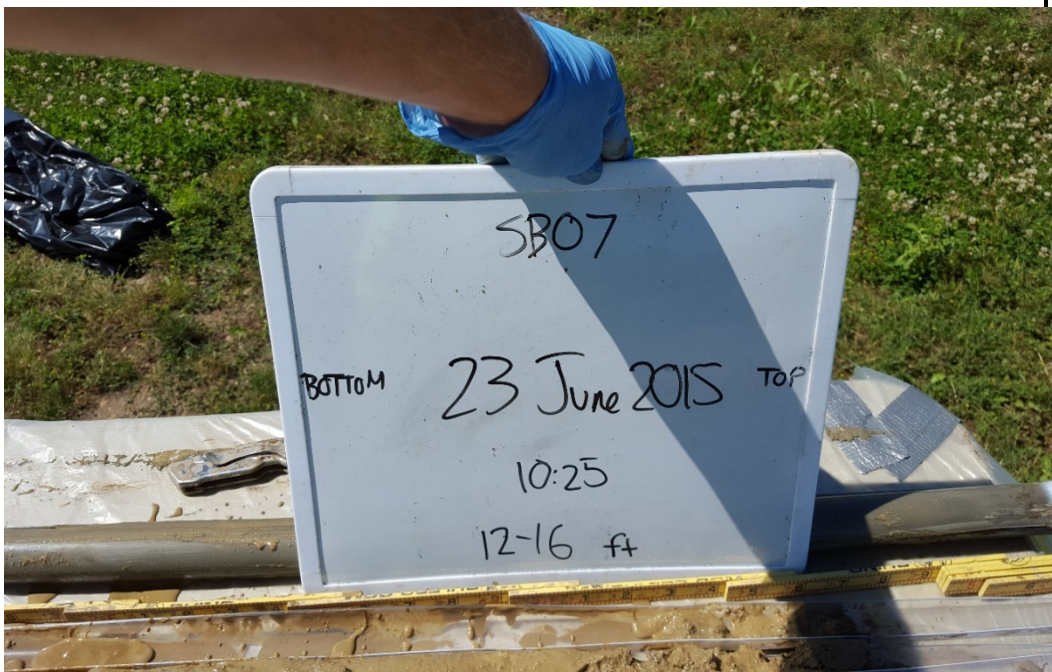
**Comments: 8-
12ft**



**PLA-S-FS-
SB07-12-16**

**Date:
6/23/2015 10:29
AM**

**Comments: 12-
16ft (top half)**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB07-12-16**

**Date:
6/23/2015 10:29
AM**

**Comments: 12-
16ft (bottom
half)**



**PLA-S-FS-
SB07-16-20**

**Date:
6/23/2015 10:30
AM**

**Comments: 16-
20ft (top half)**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB07-16-20**

**Date:
6/23/2015 10:30
AM**

**Comments: 16-
20ft (bottom
half)**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-FS-SB08-0-4

Date:
6/23/2015 8:20
AM

Comments: 0-4ft



PLA-S-FS-SB08-4-8

Date:
6/23/2015 8:55
AM

Comments: 4-8ft
(top half)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB08-4-8**

**Date:
6/23/2015 8:55
AM**

**Comments: 4-
8ft (bottom
half)**



**PLA-S-FS-
SB08-8-12**

**Date:
6/23/2015 9:00
AM**

**Comments: 8-
12ft (top half)**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-FS-SB08-8-12

Date:
6/23/2015 9:00 AM

Comments: 8-12ft (bottom half)



PLA-S-FS-SB08-12-16

Date:
6/23/2015 9:00 AM

Comments: 12-16ft (top half)



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-FS-
SB08-12-16**

**Date:
6/23/2015 9:00
AM**

**Comments:
12-16ft
(bottom half)**



**PLA-S-FS-
SB08-16-20**

**Date:
6/23/2015 9:01
AM**

**Comments:
16-20ft**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-FS-SB09-0-4

Date: 6/12/2015 2:23 PM

Comments: 0-4ft



PLA-S-FS-SB09-4-8

Date: 6/12/2015 2:23 PM

Comments: 4-8ft



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-FS-SB09-8-12

Date: 6/12/2015 2:24 PM

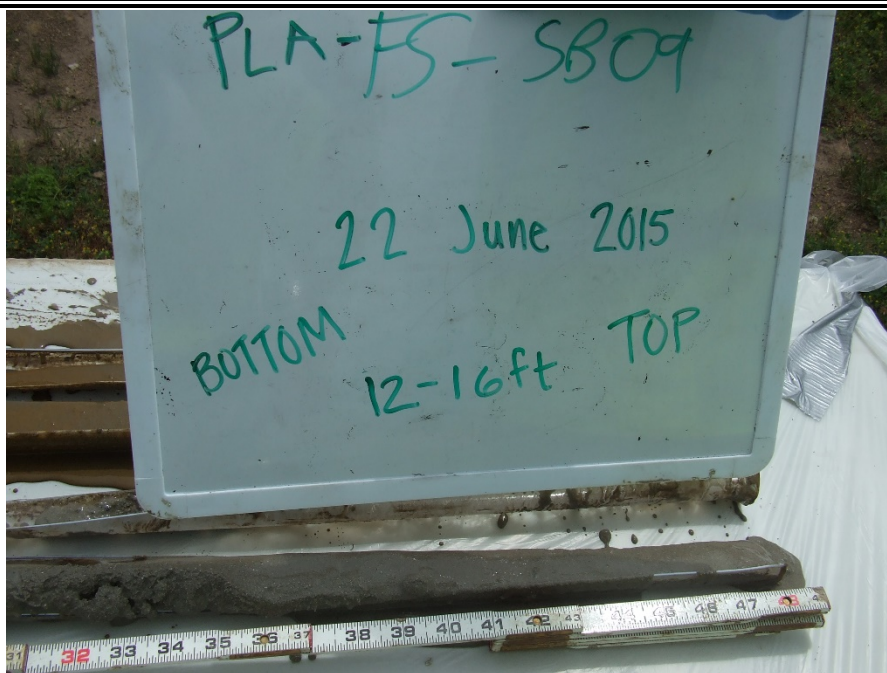
Comments: 8-12ft



PLA-S-FS-SB09-12-16

Date: 6/12/2015 2:27 PM

Comments: 12-16ft (top section)



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-FS-SB09-12-16

Date: 6/12/2015 2:27 PM

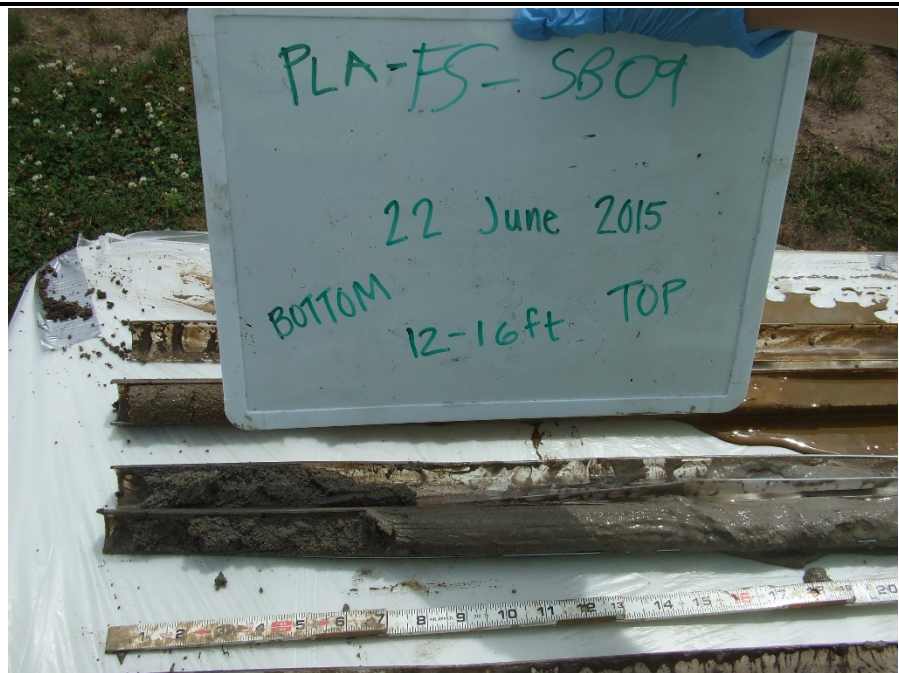
**Comments: 12-16ft
(middle section)**



PLA-S-FS-SB09-12-16

Date: 6/12/2015 2:27 PM

**Comments: 12-16ft
(bottom section)**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-FS-SB09-16-20

Date: 6/12/2015 2:28 PM

Comments: 16-20ft



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-ROAD-
SB10-0-4**

**Date:
6/19/2015 12:24
PM**

**Comments: 0-
4ft**



**PLA-S-ROAD-
SB10-4-8**

**Date:
6/19/2015 12:25
PM**

**Comments: 4-
8ft**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-ROAD-
SB10-8-12**

**Date:
6/19/2015 12:25
PM**

**Comments: 8-
12ft**



**PLA-S-ROAD-
SB10-12-16**

**Date:
6/19/2015 12:27
PM**

**Comments: 12-
16ft**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-ROAD-
SB10-16-20**

**Date:
6/19/2015 12:28
PM**

**Comments: 16-
20ft**



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-ROAD-SB11-0-4

**Date:
6/22/2015 10:12
AM**

Comments: 0-4ft



PLA-S-ROAD-SB11-4-8

**Date:
6/22/2015 10:13
AM**

Comments: 4-8ft



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-ROAD-
SB11-8-12**

**Date:
6/22/2015 10:13
AM**

Comments: 8-12ft



**PLA-S-ROAD-
SB11-12-16**

**Date:
6/22/2015 10:18
AM**

**Comments: 12-
16ft**



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

**PLA-S-ROAD-
SB11-16-20**

**Date:
6/22/2015 10:18
AM**

Comments: 16-20ft



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

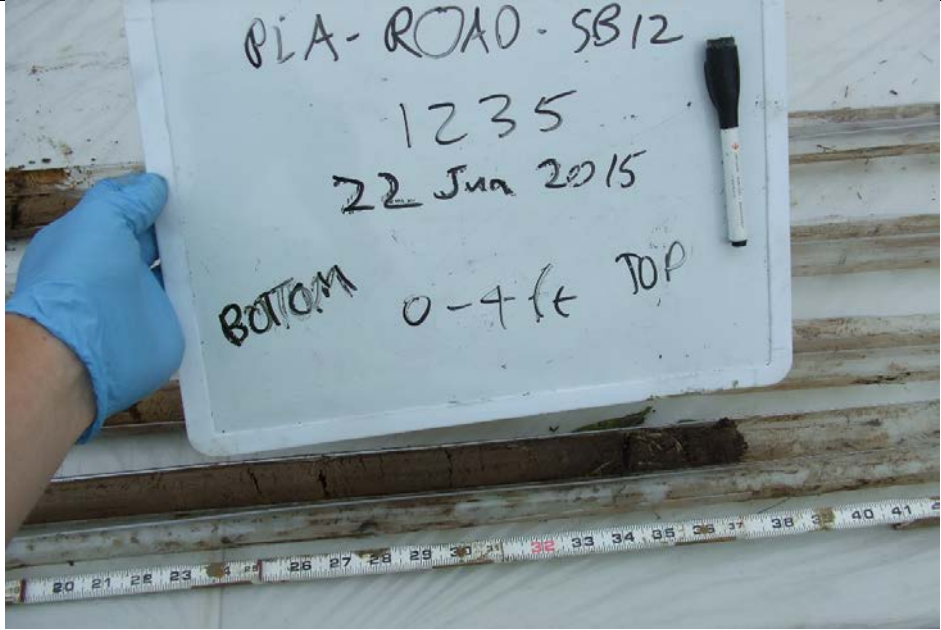
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-ROAD-SB12-0-4

Date: 6/12/2015 12:37 PM

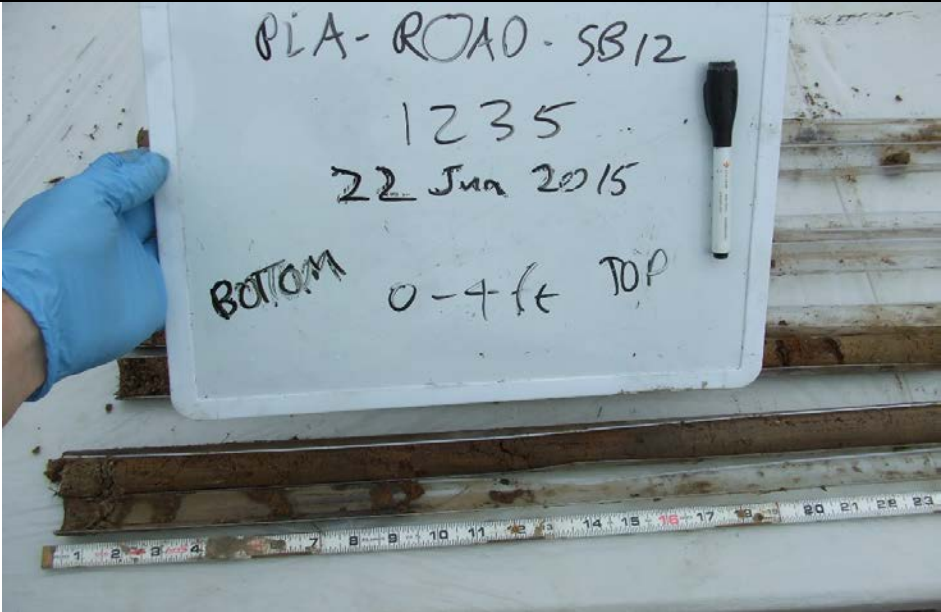
Comments: 0-4ft (top half)



PLA-S-ROAD-SB12-0-4

Date: 6/12/2015 12:38 PM

Comments: 0-4ft (bottom half)



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

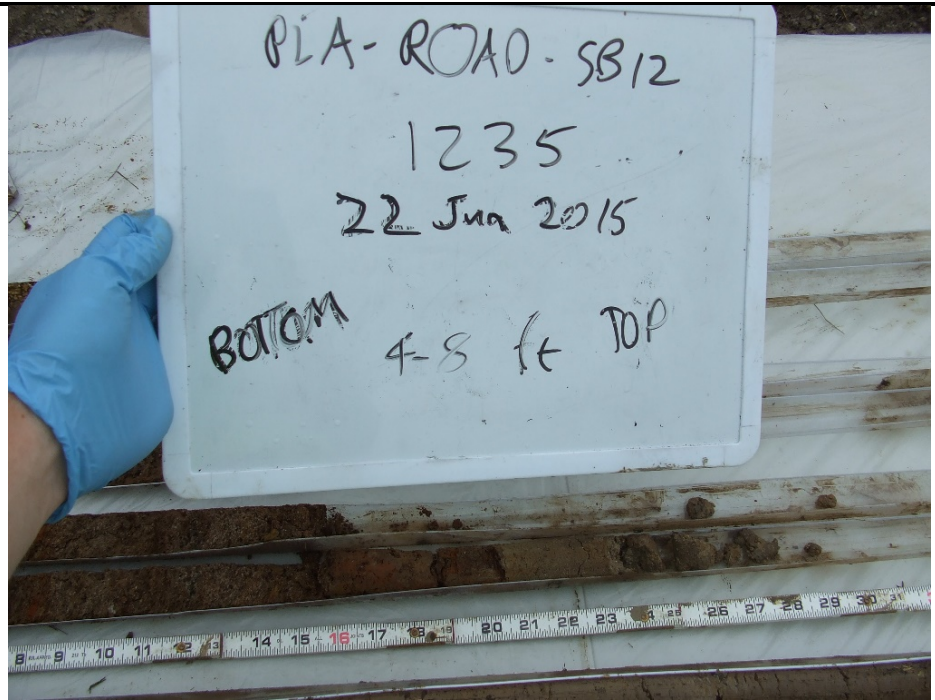
Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-ROAD-SB12-4-8

Date: 6/12/2015 12:38 PM

Comments: 4-8ft (top half)



PLA-S-ROAD-SB12-4-8

Date: 6/12/2015 12:38 PM

Comments: 4-8ft (bottom half)



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-ROAD-SB12-8-12

Date: 6/12/2015 12:39 PM

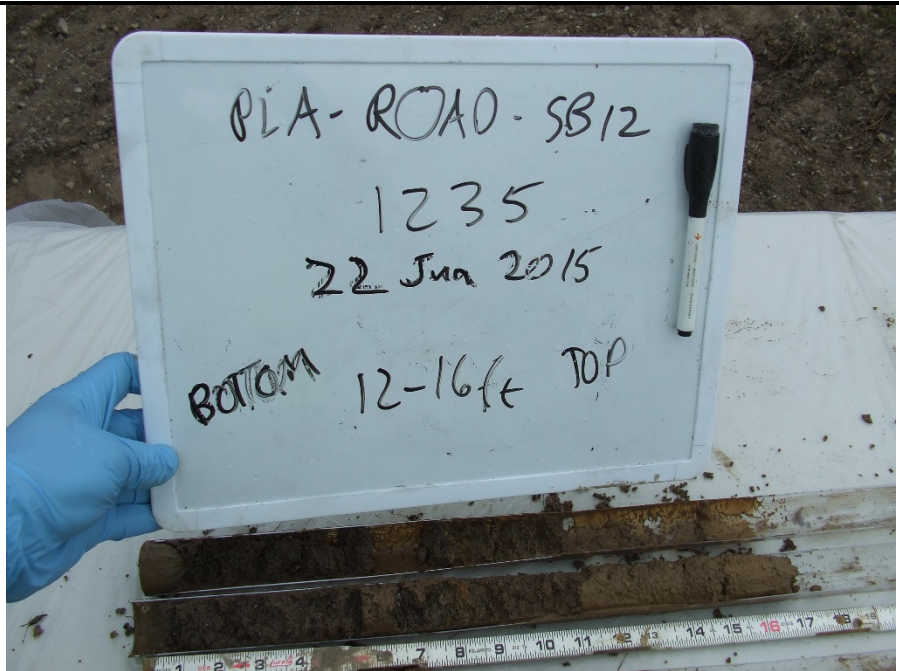
Comments: 8-12ft



PLA-S-ROAD-SB12-12-16

Date: 6/12/2015 12:39 PM

Comments: 12-16ft



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-ROAD-SB12-16-20

Date: 6/12/2015 12:54 PM

Comments: 16-20ft



**PHOTOGRAPHIC LOGS
FOR
TEST PIT SAMPLES**

GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: New Porte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP1

Date:
6/30/2015 8:14 AM

Direction: E



PLA-S-LT-TP1

Date:
6/30/2015 8:15 AM

Direction: N



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: New Porte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP1

Date:
6/30/2015 8:19
AM

Direction: N



PLA-S-LT-TP1

Date:
6/30/2015 8:20
AM

Direction: NE



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: New Porte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP1

Date:
6/30/2015 8:22 AM

Direction: E



PLA-S-LT-TP1

Date:
6/30/2015 8:26 AM

Direction: NE



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: New Porte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP1

Date:
6/30/2015 8:27
AM

Direction: SE



PLA-S-LT-TP1

Date:
6/30/2015 12:1
4 PM

Direction: S



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

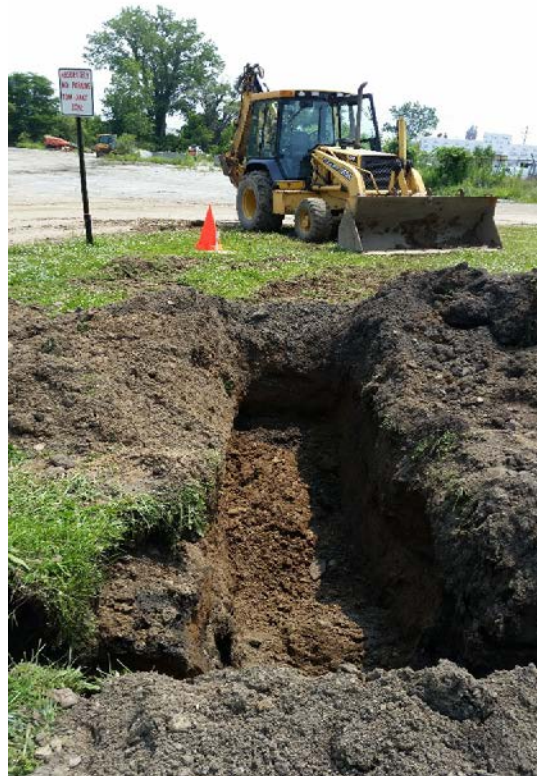
Site Name: New Porte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP1

Date: 6/30/2015 12:15 PM

Direction: E



PLA-S-LT-TP1

Date: 6/30/2015 12:15 PM

Direction: W



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP2

Date:
6/30/2015 8:30 AM

Direction: N



PLA-S-LT-TP2

Date:
6/30/2015 8:33 AM

Direction: N



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP2

Date: 6/30/2015 12:15 PM

Direction: N



PLA-S-LT-TP2

Date: 6/30/2015 12:15 PM

Direction: N



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP3

Date:
6/30/2015 8:37
AM

Direction: SW



PLA-S-LT-TP3

Date:
6/30/2015 8:37
AM

Direction: S



GEOSYNTEC CONSULTANTS
Photographic Record

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP3

Date:
6/30/2015 8:42
AM

Direction: E

Comments:
Note the pipe
sticking out
from the test
pit.



PLA-S-LT-TP3

Date:
6/30/2015 8:43
AM

Direction: E

Comments:
Note the pipe
sticking out of
the test pit.



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP3

Date:
6/30/2015 8:43
AM

Direction: SE



PLA-S-LT-TP3

Date:
6/30/2015 8:51
AM

Direction: E



GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec
consultants

Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP3

Date:
6/30/2015 8:53
AM

Direction: SE

Comments: Not
the pipe
sticking out of
the test pit.



PLA-S-LT-TP3

Date:
6/30/2015 12:52
PM

Direction: E



GEOSYNTEC CONSULTANTS
Photographic Record



Client: City of La Porte

Project Number: CHR8417

Site Name: NewPorte Landing Development Site

Site Location: La Porte, IN

PLA-S-LT-TP3

Date: 6/30/2015 1:16 PM

Direction: W

Comments: Note the shallow portion of the test pit by the pipe.



APPENDIX C
SSI Boring Logs

SOIL BORING LOG



Boring ID: PLA-S-GP-SB01
Date: 06/19/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Dogus Meric and Doug Mateas
Logged by: Dogus Meric
Total Depth: 20 feet bgs
Start Time: 1120
End Time: 1220
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-6" CONCRETE		0-1ft 1.0	0-1ft #2		SB01-0-1' at 1130		0
-	6-192" Silty SAND; dark brown; medium dense; well graded; moist; with some gravel	21/48						-
1								1-
-								-
2	30-48" grading to brown to black; gravel grades out		NO READING	NO READING				2
-								-
3			3-4ft 0	3-4ft #3				3
-								-
4	48-84" grading to brown; trace clay	40/48	4-5ft 1.0	4-5ft #4		SB01-4-5' at 1135		4
-								-
5				5-6ft 0.3	5-6ft #5			5.5ft
-								-
6			6-8ft 1.0	6-8ft #6				6
-								-
7	84-108" grading to brown to gray; dense							7
-								-
8		44/48	8-10ft 1.9	8-10ft #7				8
-								-
9	108-192" grading to brown; medium dense							
-								-
10			10-12ft 1.8	10-12ft #8				10
-								-

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11 -	144-192" clay lenses	47/48						11 -
12 -			<u>12-14ft</u>	<u>12-14ft</u>				12 -
13 -			1.8	#9				13 -
14 -			<u>14-16ft</u>	<u>14-16ft</u>				14 -
15 -			0.9	#10				15 -
16 -			192-240" SAND; gray to brown; dense; poorly graded; coarse grained; wet	41/48	<u>16-18ft</u>	<u>16-18ft</u>		
17 -	1.1	#11						17 -
18 -	<u>18-20ft</u>	<u>18-20ft</u>						18 -
19 -			1.8	#12				19 -
20 -								20 -

Additional Notes: Well screened from 4-14ft.

SOIL BORING LOG



Boring ID: PLA-S-GP-SB02
Date: 06/19/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Jed Sirk and Zack Sasnow
Logged by: Jed Sirk
Total Depth: 20 feet bgs
Start Time: 1115
End Time: 1245
XRF Model No.: 512345

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-6" CONCRETE	30/48	0-1ft	0-1ft		SB02-0-1' at 1120		0
-	6-41" Silty SAND; dark brown; dense; well graded; trace gravel		0.5	#13				-
1			NO READING	NO READING				-
-			2-4ft	2-4ft				2
2		1.0	#15				3	
3	41-48" SAND; brown; loose; well graded; moist; trace silt							-
4	48-56" LEAN CLAY; dark gray to brown; soft; medium plasticity; cohesive; wet; trace sand	29/48	4-6ft	4-6ft		SB02-4.5-5.5' at 1125	4.5ft	4
-	56-74" Silty SAND; brown; medium dense; well graded		1.3	#16			-	
5	72-74" dark brown mottling						-	
-	74-80" SAND; brown; dense; poorly graded; fine grained		6-8ft	6-8ft			6	
6	76-77" trace gravel							-
7	80-92" SILT; dark brown		2.0	#17				7
8	92-192" SAND; light brown to light gray; loose; poorly graded; fine grained	39/48	8-10ft	8-10ft				8
-	96-138" grading to dense		1.8	#18				-
9	110-138" orange oxidation; increases with depth							-
10			10-12ft	10-12ft				10
-			0.5	#19				-

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11 -	138-192" grading to brown to dark gray; loose; well graded; coarse grained; trace gravel							11 -
12 -	144-192" gravel grades out 148-149" clay lense	43/48	<u>12-14ft</u> 1.9	<u>12-14ft</u> #20				12 -
13 -							13 -	
14 -	170-172" dark orange oxidation	43/48	<u>14-16ft</u> 2.1	<u>14-16ft</u> #21				14 -
15 -	182-186" sand lense							15 -
16 -	192-202" GRAVEL; brown; loose; well graded; with some sand	40/48	<u>16-18ft</u> 1.7	<u>16-18ft</u> #22				16 -
17 -	202-240" SAND; brown; medium dense; well graded							17 -
18 -			<u>18-20ft</u> 1.8	<u>18-20ft</u> #23				18 -
19 -	234-240" grading to dark gray to dark brown							19 -
20 -								20 -

Additional Notes:

SOIL BORING LOG



Boring ID: PLA-S-GP-SB03
Date: 06/19/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Jed Sirk and Zack Sasnow
Logged by: Jed Sirk
Total Depth: 20 feet bgs
Start Time: 1300
End Time: 1420
XRF Model No.: 512345

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-2" CONCRETE		<u>0-1ft</u> 0.0	<u>0-1ft</u> #24		SB03-0-1' at 1310		0
1	2-76" SAND; brown; poorly graded; fine grained; trace silt							-
2	23-28" grading to reddish-orange	20/48	NO READING	NO READING				2
3			<u>3-4ft</u> 0.1	<u>3-4ft</u> #25		SB03-3-4' at 1315 DUP-061915-001		3
4	52-54" trace gravel		<u>4-6ft</u> 1.2	<u>4-6ft</u> #26				4
5							5ft	5
6	76-80" Sandy LEAN CLAY; dark gray; soft; low plasticity; cohesive	24/48	<u>6-8ft</u> 2.0	<u>6-8ft</u> #27				6
7	80-96" SILT; dark brown; medium; non plastic							-
8	96-106" LEAN CLAY; dark brown to gray; stiff; low plasticity; cohesive; trace sand		<u>8-10ft</u> 1.1	<u>8-10ft</u> #29				8
9	106-240" SAND; light gray; dense; poorly graded; fine grained							9
10	128-174" grading to loose	43/48	<u>10-12ft</u> 0.7	<u>10-12ft</u> #30				10

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11 -	174-240" grading to gray; medium dense; well graded; fine to medium grained 200-215" with some gravel	43/48	<u>12-14ft</u>	<u>12-14ft</u>				11 -
12 -			1.2	#31			12 -	
13 -								13 -
14 -			<u>14-16ft</u>	<u>14-16ft</u>				14 -
15 -		0.7	#32				15 -	
16 -		44/48	<u>16-18ft</u>	<u>16-18ft</u>				16 -
17 -			0.8	#33				17 -
18 -			<u>18-20ft</u>	<u>18-20ft</u>				18 -
19 -	0.5		#34				19 -	
20 -							20 -	

Additional Notes:

SOIL BORING LOG



Boring ID: PLA-S-GP-SB04
Date: 06/22/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Doug Mateas
Logged by: Doug Mateas
Total Depth: 20 feet bgs
Start Time: 1435
End Time: 1645
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-8" ASPHALT/AGGREGATE	30/48	0-1ft	0-1ft		SB04-0-1' at 1515		0
-	8-38" Silty SAND; dark brown to black; medium dense; well graded; with some gravel		0.0	#26		DUP-062215-002		-
1			NO READING	NO READING				1-
-								-
2								2
-								-
3	38-42" CONCRETE							3
-	42-48" SAND; orangish-red; loose; well graded							-
4	48-72" Clayey SAND; dark gray to black; medium dense; well graded; moist	24/48	4-6ft	4-6ft				4
-			0.1	#27				-
5			NO READING	NO READING				5
-								-
6	72-162" SAND; light gray; medium dense; poorly graded; medium to coarse grained; moist		NO READING	NO READING				6
-	96-144" with clayey sand lenses		7-8ft	7-8ft		SB04-7-8' at 1530	8ft	7
7			0.1	#29				7
-	96-162" grading to tan; well graded; wet; trace gravel		8-10ft	8-10ft				8
8			0.0	#30				-
-								
9								9
-								-
10		37/48	10-12ft	10-12ft				10
-			0.0	#31				-

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11								11
-								-
12	144-162" grading to loose		<u>12-14ft</u>	<u>12-14ft</u>				12
-			0.0	#33				-
13								13
-								-
14	162-174" Sandy GRAVEL; gray; loose; well graded	44/48	<u>14-16ft</u>	<u>14-16ft</u>				14
-			0.0	#34				-
15	174-240" SAND; tan; medium dense; poorly graded; medium to coarse grained							15
-								-
16			<u>16-18ft</u>	<u>16-18ft</u>				16
-			0.0	#35				-
17								17
-								-
18		43/48	<u>18-20ft</u>	<u>18-20ft</u>				18
-			0.0	#36				-
19	220-240" grading to light gray; dense; well graded; trace gravel							19
-								-
20								20
-								-

Additional Notes:

SOIL BORING LOG



Boring ID: PLA-S-GP-SB05
Date: 06/22/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Dave Kulczycki and Doug Mateas
Logged by: Doug Mateas
Total Depth: 20 feet bgs
Start Time: 1200
End Time: 1310
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-48" Silty SAND; dark brown; very loose; well graded; moist	14/48	0-1ft	0-1ft		SB05-0-1' at 1215	4ft	0
-			0.2	#17				-
1			NO READING	NO READING				-
-								-
2	48-108" SAND; tan; medium dense; well graded; wet	23/48	4-6ft	4-6ft		SB05-6-7' at 1220		2
-			0.0	#18				-
5			6-7ft	6-7ft				-
-			0.0	#19				-
6	90-96" grading to gray		NO READING	NO READING				6
-								-
7								-
8	108-156" Clayey SAND; light gray; medium dense; well graded; wet	45/48	8-10ft	8-10ft				8
-			0.0	#20				-
9	126-132" grading to tan		10-12ft	10-12ft				9
-			0.0	#21				-
10								10

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11	132-156" grading to loose; trace gravel							11
-								-
12	144-156" grading to gray; medium dense		<u>12-14ft</u>	<u>12-14ft</u>				12
-			-	0.0				#22
13	156-240" Silty SAND; medium gray; dense; well graded; with some gravel	28/48	<u>14-16ft</u>	<u>14-16ft</u>				13
-								-
14			0.0	#23				14
-			-	-				
15			-	-				15
-			-	-				
16	29/48	<u>16-18ft</u>	<u>16-18ft</u>	16				
-		-	0.0	#24	-			
17		-	-	17				
-		-	-					
18	<u>18-20ft</u>	<u>18-20ft</u>	18					
-	-	0.0	#25	-				
19	-	-	-	19				
-	-	-	-	-				
20								20
-								

Additional Notes:

SOIL BORING LOG



Boring ID: PLA-S-FS-SB06
Date: 06/23/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Doug Mateas
Logged by: Jed Sirk
Total Depth: 20 feet bgs
Start Time: 1240
End Time: 1400
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Readings (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-7" Silty SAND; medium to dark brown; dense; well graded; moist; with some gravel	21/48	0-1ft	0-1ft		SB06-0-1' at 1255		0
-	7-48" SAND; reddish-brown; well graded; fine to medium grained; with some silt; trace gravel		3.9	#36		MS/MSD		-
1			1-3ft	1-3ft				1-
-			2.6	#37				-
2							2	
-							-	
3			3-4ft	3-4ft				3
-	48" black, oily stain with odor		3.6	#38				-
4	48-74" LEAN CLAY; dark brown; low plasticity; cohesive; with some sand and gravel	26/48	4-6ft	4-6ft	ODOR		5ft	4
-			0.6	#39				-
5								5
-								-
6	74-96" SAND; medium to dark brown; with some clay	26/48	6-7ft	6-7ft	ODOR	SB06-6-7' at 1250		6
-			2.6	#40				
7			7-8ft	7-8ft				7
-			5.5	#41				-
8	96-112" CONCRETE; crushed; trace large gravel	33/48	8-10ft	8-10ft	ODOR			8
-			4.7	#42				-
9	112-128" Sandy SILT; dark brown; non plastic							
-								-
10	128-140" SAND; brown; poorly graded; medium grained		10-11ft	10-11ft				10
-			4.8	#44				-

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Readings (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11			<u>11-12ft</u>	<u>11-12ft</u>				11
-	140-151" Silty SAND; light gray; well graded; fine grained; trace gravel		4.6	#45				-
12			<u>12-13ft</u>	<u>12-13ft</u>				12
-	151-159" Sandy LEAN CLAY; brown with gray mottling; medium plasticity; cohesive		4.8	#46				-
13	159-240" SAND; light brown to gray; well graded; fine to medium grained		<u>13-14ft</u>	<u>13-14ft</u>				13
-			6.1	#47				-
14	174-192" grading to dark gray; medium grained; trace clay	29/48	<u>14-15ft</u>	<u>14-15ft</u>				14
-			9.1	#48				-
15			<u>15-16ft</u>	<u>15-16ft</u>				15
-			22.5	#49		SB06-15-16' at 1310		-
16	192-240" grading to light brown; fine grained; clay grades out		<u>16-17ft</u>	<u>16-17ft</u>				16
-			21.6	#50				-
17			<u>17-18ft</u>	<u>17-18ft</u>				17
-			16.1	#51				-
18		48/48	<u>18-19ft</u>	<u>18-19ft</u>				18
-			9.7	#52				-
19			<u>19-20ft</u>	<u>19-20ft</u>				19
-			26.2	#53				-
20								20
-								-

Additional Notes: Well screened at 4-14ft. Collected PID headspace bags at one foot intervals for samples >10ft. Boring offset to collect fresh samples from selected interval.

SOIL BORING LOG



Boring ID: PLA-S-FS-SB07
Date: 06/23/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Jed Sirk and Doug Mateas
Logged by: Doug Mateas
Total Depth: 20 feet bgs
Start Time: 1025
End Time: 1220
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Readings (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-6" Silty SAND; dark brown; very dense; well graded; moist; with some gravel (Topsoil)	29/48	0-1ft	0-1ft		SB07-0-1' at 1045		0
-	6-12" SAND; tan; loose; poorly graded; medium grained; moist		3.0	#20		DUP-062315-001		-
1	12-16" Sandy GRAVEL; tan; moist		1-3ft	1-3ft		-		1-
-	16-30" Silty SAND; dark brown; very dense; well graded; moist; with some gravel		4.6	#22		-		-
2	30-36" BRICK; red; crushed		-	-		-		2
3	36-72" Silty SAND; dark brown; very dense; well graded; moist; with some gravel	19/48	NO READING	NO READING			3	
-	48-72" trace gravel		4-6ft	4-6ft			-	4
4			4.0	#23			-	-
5		19/48	NO READING	NO READING			5	
-			7-8ft	7-8ft			-	-
6	72-114" SAND; tan; loose; well graded; medium to coarse grained; with little gravel	36/48	NO READING	NO READING			7ft	
-			4.8	#21			SB07-8' at 1050	7
7			8-9ft	8-9ft			-	-
8		36/48	4.6	#24			8	
-			9-10ft	9-10ft			-	-
9	114-136" Clayey SAND; tannish-gray with reddish Fe staining; very dense; well graded; with large (5-6 cm) gravel		3.4	#25			-	-
10		36/48	10-11ft	10-11ft			10	
-			4.4	#26			-	-

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Readings (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11			11-12ft	11-12ft				11
-	136-174" SAND; tannish-brown; loose; well graded; medium to coarse grained; wet; with some gravel	40/48	3.2	#27				-
12			12-13ft	12-13ft				12
-			5.8	#28				-
13			13-14ft	13-14ft				13
-			6.7	#29				-
14			14-15ft	14-15ft				14
-	174-192" Clayey SAND; tan to gray with reddish iron oxide discoloration; dense; well graded	40/48	6.4	#30				-
15			15-16ft	15-16ft		SB07-15-16' at 1130	15	
-			7.5	#31				-
16	192-216" SAND; tan to light brown; loose; well graded; medium to coarse grained; trace gravel		16-17ft	16-17ft				16
-			5.6	#32				-
17			17-18ft	17-18ft				17
-			6.1	#33				-
18	216-228" Clayey SAND; dark gray with reddish iron oxide discoloration; medium dense; well graded; trace gravel	48/48	18-19ft	18-19ft				18
-			5.4	#34				-
19	228-240" SAND; tan to light brown; loose; well graded; medium to coarse grained; with little gravel		19-20ft	19-20ft				19
-			5	#35				-
20								20
-								-

Additional Notes: Collected PID headspace bags at one foot intervals for samples >10ft. Boring offset to collect fresh samples from selected interval.

SOIL BORING LOG



Boring ID: PLA-S-FS-SB08
Date: 06/23/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Jed Sirk and Doug Mateas
Logged by: Doug Mateas
Total Depth: 20 feet bgs
Start Time: 0820
End Time: 1000
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-12" Silty SAND; medium to dark brown; very dense; well graded; moist; with some gravel (Topsoil)	34/48	0-1ft 0.0	0-1ft #3		SB08-0-1' at 0830 MS/MSD		0
1	12-18" SAND; tan; loose; poorly graded; medium grained; moist		1-3ft	1-3ft				1-
-	18-24" Sandy GRAVEL; tan; moist		0.7	#4				-
2	24-36" Silty SAND; medium to dark brown; very loose; well graded; moist; with some gravel	33/48	3-4ft 0.4	3-4ft #5				2
-								-
3	36-60" BRICK; red; crushed							3
4			NO READING	NO READING				4
5	60-84" SAND; brown; medium dense; well graded; wet; trace gravel	35/48	5-7ft 1.5	5-7ft #6				5
-								-
6								6
7	84-96" Silty SAND; dark brown; dense; well graded; wet		7-8ft 1.1	7-8ft #7		SB08-7-8' at 0840		7
8	96-108" SAND; tannish-brown; medium dense; poorly graded; medium grained; wet		8-9ft 1.3	8-9ft #8				8
9	108-126" Silty SAND; black; dense; well graded	35/48	9-10ft 1.5	9-10ft #9				9
10	126-144" SAND; medium gray; dense; well graded; with little gravel			10-11ft 1.6	10-11ft #10			10ft

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11 -			11-12ft 0.9	11-12ft #11				11 -
12 -	144-192" Clayey SAND; tan to gray with reddish iron oxide discoloration; dense; well graded	33/48	12-13ft 1.0	12-13ft #12				12 -
13 -			13-14ft 1.4	13-14ft #14				13 -
14 -	168-192" grading to gray; very dense; trace gravel		14-15ft 0.7	14-15ft #15				14 -
15 -			15-16ft 1.6	15-16ft #16				15 -
16 -	192-240" SAND; tan to light brown; loose; well graded; medium to coarse grained; with little gravel		27/48	16-17ft 0.0				16-17ft #17
17 -	204-240" grading to coarse grained with some gravel	17-18ft 0.9		17-18ft #18	17 -			
18 -		18-19ft 4.4		NO READING	18 -			
19 -		19-20ft 3.1		19-20ft #19	19 -			
20 -								20 -

Additional Notes: Collected PID headspace bags at one foot intervals for samples >10ft. Boring offset to collect fresh samples from selected interval.

SOIL BORING LOG



Boring ID: PLA-S-FS-SB09
Date: 06/22/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Jed Sirk and Alyssa Offutt
Logged by: Alyssa Offutt
Total Depth: 20 feet bgs
Start Time: 1410
End Time: 1520
XRF Model No.: 512345

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0 -	0-11" SILT; dark brown; non plastic (Topsoil)	26/48	0-1ft 0.3	0-1ft #25		SB09-0-1' at 1420	4.5ft	0 -
1 -	11-15" CONCRETE; crushed		1-4ft 0.8	1-4ft #26				1- -
2 -	15-35" SILT; dark brown; non plastic; dry; trace sand and large gravel		2 -					
3 -	35-39" CONCRETE; crushed	3 -						
4 -	39-81" SAND; dark brown; well graded; trace silt and gravel	17.5/48	4-6ft 0.6	4-6ft #28		4 -		
5 -	56-81" grading to brown; dense; poorly graded; fine grained; trace gravel		5 -					
6 -	81-100" SILT; dark brown; medium; low plasticity; cohesive; trace sand		6-7ft 1.0	6-7ft #29		6 -		
7 -			7-8ft 1.1	7-8ft #30		7 -		
8 -	100-178" SAND; light gray to brown; loose; poorly graded; medium grained	32.5/48	8-10ft 0.0	8-10ft #31		8 -		
9 -	103-125" grading to brown to gray; medium dense; fine grained; trace gravel		9 -					
10 -	125-178" grading to dense; medium grained; gravel grades out		10-12ft 1.0	10-12ft #32	10 -			

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11 -								11 -
12 -		48/48	<u>12-14ft</u> 0.2	<u>12-14ft</u> #33				12 -
13 -							13 -	
14 -	169-178" grading to medium dense to loose	48/48	<u>14-16ft</u> 0.7	<u>14-16ft</u> #34				14 -
15 -	178-192" Sandy LEAN CLAY; gray with orange mottling; stiff; medium plasticity; cohesive							15 -
16 -	192-240" SAND; gray; loose; poorly graded; medium grained	48/48	<u>16-18ft</u> 0.8	<u>16-18ft</u> #35				16 -
17 -	202-240" grading to brown; well graded; fine to medium grained							17 -
18 -	217-240" grading to orangish-brown		<u>18-20ft</u> 0.8	<u>18-20ft</u> #36				18 -
19 -								19 -
20 -								20 -

Additional Notes: Well screened from 3-13ft.

SOIL BORING LOG



Boring ID: PLA-S-ROAD-SB10
Date: 06/19/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Dogus Meric and Doug Mateas
Logged by: Dogus Meric
Total Depth: 20 feet bgs
Start Time: 1220
End Time: 1310
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)	
0	0-6" CONCRETE		<u>0-1ft</u> 0.0	<u>0-1ft</u> #15		SB10-0-1' at 1230		0	
-	6-60" SAND; brown; medium dense; moist; with some gravel	24/48	NO READING	NO READING				-	
1			<u>2-4ft</u> 0.8	<u>2-4ft</u> #13				1-	
-									-
2	36-60" grading to dark brownish-black; slag and clinkers present	48/48	<u>4-5ft</u> 0.0	<u>4-5ft</u> #14		SB10-4-5' at 1235		2	
-									-
3	60-96" Silty SAND; brown; medium dense; well graded; wet; with some clay	48/48	NO READING	NO READING				3	
-									-
4			<u>6-8ft</u> 0.0	<u>6-8ft</u> #16				6.5ft	4
-								-	
5	96-156" Silty CLAY; dark brown; medium plasticity; wet	19/48	<u>8-10ft</u> 0.0	<u>8-10ft</u> #17				5	
-									-
6			<u>10-12ft</u> 0.0	<u>10-12ft</u> #18					6
-								-	
7								7	
-								-	
8								8	
-								-	
9								9	
-								-	
10								10	
-								-	

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11 -	156-240" SAND; gray; medium dense; wet							11 -
12 -			<u>12-14ft</u> 0.1	<u>12-14ft</u> #19				12 -
13 -		30/48	<u>14-16ft</u> 0.0	<u>14-16ft</u> #20				13 -
14 -			<u>16-18ft</u> 0.1	<u>16-18ft</u> #21				14 -
15 -								15 -
16 -								16 -
17 -								17 -
18 -		22/48	<u>18-20ft</u> 0.0	<u>18-20ft</u> #22				18 -
19 -								19 -
20 -								20 -

Additional Notes: Well screened from 5-15ft.

SOIL BORING LOG



Boring ID: PLA-S-ROAD-SB11
Date: 06/22/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Dave Kulczycki and Doug Mateas
Logged by: Doug Mateas
Total Depth: 20 feet bgs
Start Time: 1010
End Time: 1140
XRF Model No.: 500788

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Readings (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
0	0-5" ASPHALT	27/48	0-1ft	0-1ft		SB11-0-1' at 1025	7ft	0
-	5-9" SLAG; black		1.4	#3				-
1	9-24" SAND; tannish-brown; dense; well graded; moist; with some gravel		NO READING	NO READING		1-		
-						-		
2	24-28" LEAN CLAY; greenish-brown; medium plasticity; with organics	35/48	2-4ft	2-4ft		SB11-4-5' at 1055	7ft	2
-	28-86" SAND; tannish-brown; dense; well graded; moist; with some gravel		0.7	#4				-
3						3		
-						-		
4		35/48	4-6ft	4-6ft		SB11-4-5' at 1055	7ft	4
-			0.4	#5				-
5						5		
-						-		
6		35/48	6-8ft	6-8ft		SB11-8-10' at 1040	7ft	6
-			0.6	#6				-
7						7		
-						-		
8	86-116" Silty SAND; grayish-brown; dense; well graded; wet; with some gravel	35/48	8-10ft	8-10ft		SB11-8-10' at 1040	7ft	8
-	94-116" grading to black; with organics; gravel grades out		0.8	#7				-
9						9		
-						-		
10	116-220" FAT CLAY; black; stiff; high plasticity; cohesive	35/48	10-12ft	10-12ft			7ft	10
-			0.3	#8				-

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11	132-144" grading to gray; laminations (e.g., varves) present							11
-								-
12	144-150" grading to light gray	41/48	<u>12-14ft</u>	<u>12-14ft</u>				12
-	150-220" grading to tannish-gray; soft		0.0	#10				-
13								13
-								-
14		41/48	<u>14-16ft</u>	<u>14-16ft</u>				14
-			0.2	#12				-
15								15
-								-
16		40/48	<u>16-18ft</u>	<u>16-18ft</u>				16
-			0.4	#13				-
17								17
-								-
18		40/48	<u>18-20ft</u>	<u>18-20ft</u>				18
-	220-234" Sandy LEAN CLAY; dark gray; stiff; medium plasticity		0.3	#14				-
19	234-240" Clayey SAND; light gray; dense; well graded							19
-								-
20								20
-								-

Additional Notes: Well screened from 3-13ft.

SOIL BORING LOG



Boring ID: PLA-S-ROAD-SB12
Date: 06/22/2015
Site: NewPorte Landing, La Porte, IN
Project No.: CHR8417
Drilling Co.: SCS Environmental Contracting
Drilling Method: Direct-push technology (DPT)

Sampler: Jed Sirk and Alyssa Offutt
Logged by: Alyssa Offutt
Total Depth: 20 feet bgs
Start Time: 1230
End Time: 1430
XRF Model No.: 512345

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)	
0	0-5" SILT; dark brown; low plasticity; moist; with organics (Topsoil)	37/48	0-1ft	0-1ft		SB12-0-1' at 1245	8.5ft	0	
-	5-26" LEAN CLAY; light brown; non plastic; dry		0.1	#14				-	
1			1-2ft	1-2ft				1-	
-			0.2	#15				-	
2	26-45" Sandy LEAN CLAY; orangish-brown; non plastic; moist	27/48	2-4ft	2-4ft					2
-			0.5	#16		-			
3						3			
-	45-59" SAND; light brown; well graded; moist; with some gravel	20/48	4-6ft	4-6ft					4
4			0.7	#17		-			
5	59-118" LEAN CLAY; orangish-brown; non plastic; moist; with some sand	20/48	6-7ft	6-7ft					5
-	70-118" sand grades into silty sand; trace gravel		0.7	#18	-				
6			7-8ft	7-8ft	7				
-		0.3	#19	-	SB12-7-8' at 1250				
7		8-12ft	8-12ft	8					
-		0.7	#20	-					
8				9					
9				-					
10	118-192" Sandy LEAN CLAY; orangish-brown; low plasticity; cohesive; moist; with some gravel			10					
-				-					

Depth (ft)	Soil Description (Type, Color, USCS, etc.)	Recovery (in.)	PID Reading (11.7 eV)	XRF Reading	Odor	Lab Sample and ID	Water Level	Depth (ft)
11 -	144-192" grading to brown; medium plasticity	18/48						11 -
12 -			<u>12-14ft</u>	<u>12-14ft</u>				12 -
13 -			0.6	#21				13 -
14 -			<u>14-16ft</u>	<u>14-16ft</u>				14 -
15 -			0.3	#22				15 -
16 -	192-202" FAT CLAY; brown; high plasticity; cohesive; 197-202" with gravel; wet	20/48	<u>16-18ft</u>	<u>16-18ft</u>				16 -
17 -	202-231" Sandy SILT; brown; non plastic; wet; trace gravel		0.2	#23				17 -
18 -			<u>18-20ft</u>	<u>18-20ft</u>				18 -
19 -	231-240" Gravelly SILT; brown; non plastic; wet; with some sand		0.2	#24				19 -
20 -								20 -

Additional Notes:

APPENDIX D

Summary of XRF Results

Appendix D
 Summary of XRF Results
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Analyte	CAS No	PLA-S-GP-SB01-0-1 06/19/2015 #2	PLA-S-GP-SB01-3-4 06/19/2015 #3	PLA-S-GP-SB01-4-5 06/19/2015 #4	PLA-S-GP-SB01-5-6 06/19/2015 #5	PLA-S-GP-SB01-6-8 06/19/2015 #6	PLA-S-GP-SB01-8-10 06/19/2015 #7	PLA-S-GP-SB01-10-12 06/19/2015 #8	PLA-S-GP-SB01-12-14 06/19/2015 #9	PLA-S-GP-SB01-14-16 06/19/2015 #10	PLA-S-GP-SB01-16-18 06/19/2015 #11	PLA-S-GP-SB01-18-20 06/19/2015 #12	PLA-S-GP-SB02-0-1 06/19/2015 #13	PLA-S-GP-SB02-2-4 06/19/2015 #15	PLA-S-GP-SB02-4-6 06/19/2015 #16	PLA-S-GP-SB02-6-8 06/19/2015 #17	PLA-S-GP-SB02-8-10 06/19/2015 #18	PLA-S-GP-SB02-10-12 06/19/2015 #19
<i>Metals</i>																		
Antimony	7440-36-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	91 +/- 30	147 +/- 27	100 +/- 27	ND	157 +/- 24	109 +/- 26
Arsenic	7440-38-2	9.3 +/- 1.7	4.4 +/- 1.2	4.1 +/- 1.1	5.3 +/- 1.1	ND	ND	ND	6.3 +/- 1.1	ND	6.7 +/- 1.3	ND	ND	ND	ND	ND	ND	ND
Barium	7440-39-3	381 +/- 66	260 +/- 45	265 +/- 44	170 +/- 44	189 +/- 40	321 +/- 44	172 +/- 39	163 +/- 42	ND	167 +/- 49	ND	10.1 +/- 1.3	ND	ND	ND	ND	ND
Cadmium	7440-43-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	7440-47-3	72 +/- 16	50 +/- 12	43 +/- 11	33 +/- 11	48 +/- 10	38 +/- 11	ND	ND	32 +/- 11	38 +/- 13	ND	ND	ND	ND	ND	32 +/- 8	ND
Cobalt	7440-48-4	--	--	--	--	--	--	--	--	--	--	--	53 +/- 5	42 +/- 5	ND	ND	26 +/- 4	20 +/- 4
Copper	7440-50-8	466 +/- 14	71 +/- 9	36 +/- 9	52 +/- 9	29 +/- 8	68 +/- 9	ND	69 +/- 9	81 +/- 9	33 +/- 10	103 +/- 13	214 +/- 4	117 +/- 3	66 +/- 3	51 +/- 3	64 +/- 3	105 +/- 3
Iron	7439-89-6	48076 +/- 347	16114 +/- 103	7498 +/- 52	10943 +/- 71	5086 +/- 37	9419 +/- 63	5225 +/- 37	10771 +/- 71	9764 +/- 64	11208 +/- 84	15194 +/- 133	32039 +/- 168	14477 +/- 77	9652 +/- 56	1474 +/- 14	4495 +/- 28	10546 +/- 58
Lead	7439-92-1	26.7 +/- 1.8	20.8 +/- 1.3	11 +/- 1.1	12.6 +/- 1.1	14.7 +/- 1.1	17.1 +/- 1.2	9.6 +/- 1	14 +/- 1.2	11.5 +/- 1.1	14.9 +/- 1.4	28.7 +/- 1.9	71.7 +/- 1.5	21.6 +/- 0.9	12 +/- 0.8	6 +/- 0.7	11.7 +/- 0.7	16.5 +/- 0.8
Manganese	7439-96-5	4255 +/- 46	261 +/- 10	199 +/- 9	152 +/- 9	77 +/- 7	69 +/- 8	49 +/- 7	111 +/- 8	113 +/- 8	155 +/- 10	374 +/- 15	282 +/- 9	355 +/- 8	184 +/- 7	24 +/- 5	41 +/- 5	49 +/- 5
Mercury	7439-97-6	15 +/- 2	6.1 +/- 1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Molybdenum	7439-98-7	ND	4 +/- 0.7	ND	ND	ND	3.7 +/- 0.6	1.8 +/- 0.6	6.2 +/- 0.6	2.2 +/- 0.6	10 +/- 0.8	7 +/- 0.9	ND	ND	ND	ND	ND	ND
Nickel	7440-02-0	87 +/- 8	71 +/- 6	43 +/- 5	26 +/- 5	46 +/- 5	43 +/- 5	30 +/- 5	43 +/- 5	41 +/- 5	41 +/- 6	50 +/- 8	54 +/- 7	49 +/- 7	26 +/- 7	85 +/- 7	54 +/- 6	100 +/- 7
Rubidium	7440-17-7	45.3 +/- 1	41.6 +/- 0.8	43.9 +/- 0.8	43.9 +/- 0.8	38.9 +/- 0.7	50.5 +/- 0.8	34.9 +/- 0.7	40.5 +/- 0.7	34.8 +/- 0.7	52.9 +/- 1	39.3 +/- 1	153.9 +/- 1.3	72.3 +/- 0.8	73 +/- 0.8	48.3 +/- 0.6	66.8 +/- 0.7	47.8 +/- 0.6
Selenium	7782-49-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	47.5 +/- 0.7	43.7 +/- 0.6	48.1 +/- 0.7	23.4 +/- 0.5	46.6 +/- 0.6	42.5 +/- 0.6
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	7440-24-6	312 +/- 3	108.3 +/- 1.2	82.9 +/- 1	67 +/- 0.9	58.6 +/- 0.8	63.9 +/- 0.9	63.1 +/- 0.8	73.7 +/- 1	65.3 +/- 0.9	73.5 +/- 1.1	75.6 +/- 1.3	155.3 +/- 1.3	103.6 +/- 1	180.6 +/- 1.4	107.8 +/- 1	86.9 +/- 0.8	73.4 +/- 0.8
Tin	7440-31-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Titanium	7440-32-6	3400 +/- 131	1124 +/- 81	1591 +/- 80	2079 +/- 84	1176 +/- 72	1091 +/- 77	707 +/- 67	660 +/- 72	744 +/- 71	961 +/- 86	1252 +/- 110	1988 +/- 78	1349 +/- 67	1793 +/- 70	172 +/- 52	1044 +/- 58	1356 +/- 65
Zinc	7440-66-6	923 +/- 11	208 +/- 5	75 +/- 4	75 +/- 4	72 +/- 4	95 +/- 4	82 +/- 4	124 +/- 4	103 +/- 4	130 +/- 5	145 +/- 6	12.6 +/- 1.1	7.5 +/- 0.7	3.9 +/- 0.6	ND	ND	ND
Zirconium	7440-67-7	358 +/- 3	124.9 +/- 1.4	196.1 +/- 1.8	223.3 +/- 2	120 +/- 1.3	92.3 +/- 1.2	77.2 +/- 1	78.9 +/- 1.1	87.3 +/- 1.1	91.8 +/- 1.3	105.1 +/- 1.7	4.3 +/- 0.5	9.2 +/- 0.5	2.2 +/- 0.5	ND	ND	1.8 +/- 0.4

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Analyte	CAS No	PLA-S-GP-SB02-12-14 06/19/2015 #20	PLA-S-GP-SB02-14-16 06/19/2015 #21	PLA-S-GP-SB02-16-18 06/19/2015 #22	PLA-S-GP-SB02-18-20 06/19/2015 #23	PLA-S-GP-SB03-0-1 06/19/2015 #24	PLA-S-GP-SB03-3-4 06/19/2015 #25	PLA-S-GP-SB03-4-6 06/19/2015 #26	PLA-S-GP-SB03-6-8 06/19/2015 #27	PLA-S-GP-SB03-8-10 06/19/2015 #29	PLA-S-GP-SB03-10-12 06/19/2015 #30	PLA-S-GP-SB03-12-14 06/19/2015 #31	PLA-S-GP-SB03-14-16 06/19/2015 #32	PLA-S-GP-SB03-16-18 06/19/2015 #33	PLA-S-GP-SB03-18-20 06/19/2015 #34	PLA-S-GP-SB04-0-1 06/22/2015 #26	PLA-S-GP-SB04-4-6 06/22/2015 #28	PLA-S-GP-SB04-7-8 06/22/2015 #29	
<i>Metals</i>																			
Antimony	7440-36-0	197 +/- 25	115 +/- 23	ND	ND	191 +/- 27	172 +/- 30	ND	ND	ND	317 +/- 27	140 +/- 23	100 +/- 23	ND	115 +/- 23	ND	ND	ND	
Arsenic	7440-38-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13 +/- 3	ND	
Barium	7440-39-3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	265 +/- 53	191 +/- 46	121 +/- 39	
Cadmium	7440-43-9	ND	ND	ND	ND	ND	ND	ND	12 +/- 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	7440-47-3	37 +/- 8	ND	ND	ND	ND	ND	ND	ND	ND	68 +/- 8	ND	ND	ND	ND	62 +/- 13	50 +/- 12	ND	
Cobalt	7440-48-4	68 +/- 4	56 +/- 4	42 +/- 5	40 +/- 5	36 +/- 5	19 +/- 5	20 +/- 5	ND	ND	61 +/- 4	42 +/- 4	28 +/- 4	16 +/- 4	30 +/- 4	--	--	--	
Copper	7440-50-8	79 +/- 3	44 +/- 2	157 +/- 3	106 +/- 3	118 +/- 3	85 +/- 3	601 +/- 6	977 +/- 8	252 +/- 5	570 +/- 5	265 +/- 4	138 +/- 3	302 +/- 4	125 +/- 3	33 +/- 10	ND	ND	
Iron	7439-89-6	7918 +/- 44	3187 +/- 21	15658 +/- 83	13185 +/- 73	12979 +/- 71	16533 +/- 92	11490 +/- 67	2958 +/- 23	1746 +/- 18	9368 +/- 49	4795 +/- 28	2852 +/- 20	6946 +/- 40	5631 +/- 33	17194 +/- 122	9572 +/- 68	1958 +/- 19	
Lead	7439-92-1	15.9 +/- 0.8	6 +/- 0.6	26.2 +/- 1	18.1 +/- 0.9	16.4 +/- 0.8	24.7 +/- 1	83 +/- 1.6	29.2 +/- 1	10.3 +/- 0.9	31.3 +/- 0.9	13.2 +/- 0.7	5.8 +/- 0.6	8.7 +/- 0.7	6.1 +/- 0.6	67 +/- 2	221 +/- 3	12.9 +/- 1.1	
Manganese	7439-96-5	53 +/- 5	38 +/- 5	101 +/- 6	200 +/- 7	364 +/- 9	323 +/- 9	306 +/- 8	41 +/- 5	24 +/- 6	88 +/- 6	44 +/- 5	31 +/- 4	98 +/- 6	92 +/- 5	436 +/- 13	104 +/- 9	29 +/- 7	
Mercury	7439-97-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5 +/- 1.8	ND	ND	
Molybdenum	7439-98-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.3 +/- 0.8	ND	ND	
Nickel	7440-02-0	71 +/- 6	36 +/- 6	184 +/- 7	197 +/- 7	75 +/- 7	148 +/- 7	139 +/- 7	87 +/- 7	146 +/- 9	62 +/- 6	89 +/- 6	ND	ND	ND	45 +/- 6	25 +/- 6	18 +/- 5	
Rubidium	7440-17-7	70.1 +/- 0.7	61.9 +/- 0.6	47.2 +/- 0.6	49.9 +/- 0.6	58 +/- 0.7	60.9 +/- 0.7	60.7 +/- 0.7	54.2 +/- 0.7	70.3 +/- 0.9	63.4 +/- 0.7	55.8 +/- 0.6	59.4 +/- 0.6	70.2 +/- 0.7	63.1 +/- 0.7	63.9 +/- 1.1	42.1 +/- 0.8	28.8 +/- 0.6	
Selenium	7782-49-2	46.6 +/- 0.6	19.3 +/- 0.4	25 +/- 0.5	28.9 +/- 0.5	48.4 +/- 0.7	47.2 +/- 0.7	37.5 +/- 0.6	34.8 +/- 0.6	33.5 +/- 0.6	54.4 +/- 0.6	39.8 +/- 0.5	32.6 +/- 0.5	30.7 +/- 0.5	23 +/- 0.4	ND	ND	ND	
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Strontium	7440-24-6	112.7 +/- 1	52 +/- 0.6	58.1 +/- 0.7	71.1 +/- 0.8	95.9 +/- 0.9	159.8 +/- 1.3	115.3 +/- 1.1	174.1 +/- 1.4	180.9 +/- 1.7	182.4 +/- 1.3	109.3 +/- 0.9	80.1 +/- 0.8	67.6 +/- 0.8	68.1 +/- 0.7	151.7 +/- 1.7	74.2 +/- 1	55.6 +/- 0.8	
Tin	7440-31-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Titanium	7440-32-6	1108 +/- 61	395 +/- 52	452 +/- 57	579 +/- 61	995 +/- 65	1834 +/- 75	1183 +/- 67	1602 +/- 67	1115 +/- 72	1922 +/- 67	944 +/- 55	444 +/- 52	285 +/- 54	395 +/- 54	2211 +/- 101	1360 +/- 84	630 +/- 67	
Zinc	7440-66-6	ND	ND	6.6 +/- 0.8	4.3 +/- 0.7	5.6 +/- 0.7	7 +/- 0.8	ND	ND	ND	ND	ND	ND	ND	ND	264 +/- 6	415 +/- 6	112 +/- 4	
Zirconium	7440-67-7	3.5 +/- 0.4	ND	6 +/- 0.4	6.2 +/- 0.4	9.6 +/- 0.5	5.9 +/- 0.5	2.9 +/- 0.5	3.7 +/- 0.5	ND	ND	ND	ND	2.7 +/- 0.4	ND	190 +/- 2	152.5 +/- 1.7	110.8 +/- 1.3	

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Analyte	CAS No	PLA-S-GP-SB04-8-10 06/22/2015 #30	PLA-S-GP-SB04-10-12 06/22/2015 #31	PLA-S-GP-SB04-12-14 06/22/2015 #33	PLA-S-GP-SB04-14-16 06/22/2015 #34	PLA-S-GP-SB04-16-18 06/22/2015 #35	PLA-S-GP-SB04-18-20 06/22/2015 #36	PLA-S-GP-SB05-0-1 06/22/2015 #17	PLA-S-GP-SB05-4-6 06/22/2015 #18	PLA-S-GP-SB05-6-7 06/22/2015 #19	PLA-S-GP-SB05-8-10 06/22/2015 #20	PLA-S-GP-SB05-10-12 06/22/2015 #21	PLA-S-GP-SB05-12-14 06/22/2015 #22	PLA-S-GP-SB05-14-16 06/22/2015 #23	PLA-S-GP-SB05-16-18 06/22/2015 #24	PLA-S-GP-SB05-18-20 06/22/2015 #25	PLA-S-LT-SB06-0-1 06/23/2015 #36	PLA-S-LT-SB06-1-3 06/23/2015 #37
<i>Metals</i>																		
Antimony	7440-36-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	12.4 +/- 1.4	5.1 +/- 1.1	20.7 +/- 1.5	ND	ND	8.8 +/- 1.4	140 +/- 9	ND	ND	ND	3.9 +/- 1	ND	5.9 +/- 1.4	5.6 +/- 1.2	5.2 +/- 1.3	10.9 +/- 1.5	16.7 +/- 1.5
Barium	7440-39-3	277 +/- 50	175 +/- 42	149 +/- 47	131 +/- 40	ND	307 +/- 50	ND	ND	ND	251 +/- 42	ND	254 +/- 48	ND	214 +/- 47	311 +/- 50	ND	ND
Cadmium	7440-43-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	7440-47-3	ND	41 +/- 11	ND	ND	ND	56 +/- 12	5145 +/- 130	ND	ND	45 +/- 10	ND	61 +/- 12	42 +/- 12	39 +/- 12	56 +/- 12	43 +/- 13	60 +/- 13
Cobalt	7440-48-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	85 +/- 10	115 +/- 9	124 +/- 10	ND	ND	54 +/- 10	ND	52 +/- 8	ND	33 +/- 8	87 +/- 8	76 +/- 9	78 +/- 10	53 +/- 9	81 +/- 10	60 +/- 10	38 +/- 10
Iron	7439-89-6	11256 +/- 82	12582 +/- 79	24699 +/- 157	6022 +/- 43	6364 +/- 46	16327 +/- 111	1004062 +/- 12925	3229 +/- 27	2898 +/- 26	6056 +/- 43	5263 +/- 38	26876 +/- 167	14724 +/- 103	20303 +/- 130	21242 +/- 138	15906 +/- 112	15444 +/- 110
Lead	7439-92-1	18 +/- 1.4	13 +/- 1.1	26.9 +/- 1.4	10 +/- 1.1	7 +/- 1.1	28.8 +/- 1.5	74 +/- 11	7.1 +/- 1	11 +/- 1.1	14.3 +/- 1.1	8.8 +/- 1	49.3 +/- 1.7	25.5 +/- 1.5	18.6 +/- 1.3	24.2 +/- 1.4	25.8 +/- 1.5	22.8 +/- 1.5
Manganese	7439-96-5	71 +/- 9	75 +/- 8	160 +/- 10	273 +/- 10	267 +/- 10	459 +/- 13	16245 +/- 249	59 +/- 7	45 +/- 7	77 +/- 7	59 +/- 7	332 +/- 11	147 +/- 10	224 +/- 10	238 +/- 11	306 +/- 12	303 +/- 12
Mercury	7439-97-6	ND	ND	ND	ND	ND	ND	17 +/- 5	ND	ND	ND	ND	ND	ND	ND	5.6 +/- 1.7	ND	ND
Molybdenum	7439-98-7	7.2 +/- 0.7	3.7 +/- 0.6	11.1 +/- 0.7	ND	ND	8.5 +/- 0.7	46 +/- 2	ND	ND	ND	ND	8.7 +/- 0.7	8.1 +/- 0.7	9.1 +/- 0.7	13.5 +/- 0.7	7.1 +/- 0.8	12.6 +/- 0.8
Nickel	7440-02-0	23 +/- 6	44 +/- 5	55 +/- 6	26 +/- 5	28 +/- 5	58 +/- 6	ND	25 +/- 5	ND	40 +/- 5	38 +/- 5	47 +/- 6	29 +/- 6	49 +/- 6	50 +/- 6	34 +/- 6	27 +/- 6
Rubidium	7440-17-7	44.9 +/- 0.9	53.7 +/- 0.8	41.4 +/- 0.8	34.9 +/- 0.7	31.9 +/- 0.7	49.4 +/- 0.9	ND	27.9 +/- 0.6	30.5 +/- 0.7	50.9 +/- 0.8	33.8 +/- 0.7	52.5 +/- 0.9	82 +/- 1.2	52.3 +/- 0.9	75.2 +/- 1.1	50.1 +/- 0.9	49.5 +/- 0.9
Selenium	7782-49-2	ND	ND	ND	ND	ND	2.2 +/- 0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	7440-24-6	54.7 +/- 0.9	66.1 +/- 0.9	60.8 +/- 0.9	77.2 +/- 1	72.5 +/- 0.9	81.4 +/- 1.1	14.1 +/- 1.4	54.8 +/- 0.8	64.2 +/- 0.9	67.3 +/- 0.9	57.4 +/- 0.8	47.2 +/- 0.8	50.2 +/- 0.9	57.3 +/- 0.9	53.4 +/- 0.9	71.9 +/- 1.1	64.1 +/- 1
Tin	7440-31-5	ND	ND	ND	ND	ND	ND	77 +/- 11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Titanium	7440-32-6	1441 +/- 90	1329 +/- 77	1394 +/- 86	440 +/- 68	598 +/- 70	1662 +/- 91	49184 +/- 967	700 +/- 68	687 +/- 70	1421 +/- 76	673 +/- 67	1692 +/- 89	1701 +/- 91	1587 +/- 87	1929 +/- 93	1733 +/- 92	1660 +/- 93
Zinc	7440-66-6	77 +/- 4	96 +/- 4	164 +/- 5	71 +/- 4	50 +/- 4	187 +/- 5	6142 +/- 89	77 +/- 4	46 +/- 4	122 +/- 4	122 +/- 4	561 +/- 7	400 +/- 7	338 +/- 6	295 +/- 6	126 +/- 5	120 +/- 5
Zirconium	7440-67-7	124.4 +/- 1.5	124.5 +/- 1.3	88.5 +/- 1.2	97.1 +/- 1.2	103.9 +/- 1.3	74.7 +/- 1.2	107 +/- 3	101.6 +/- 1.2	83.9 +/- 1.1	121.6 +/- 1.3	66.3 +/- 1	93.3 +/- 1.2	135.4 +/- 1.6	115.8 +/- 1.4	128.2 +/- 1.5	153.5 +/- 1.7	129.9 +/- 1.6

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Analyte	CAS No	PLA-S-LT-SB06-3-4 06/23/2015 #38	PLA-S-LT-SB06-4-6 06/23/2015 #39	PLA-S-LT-SB06-6-7 06/23/2015 #40	PLA-S-LT-SB06-7-8 06/23/2015 #41	PLA-S-LT-SB06-8-10 06/23/2015 #42	PLA-S-LT-SB06-10-11 06/23/2015 #44	PLA-S-LT-SB06-11-12 06/23/2015 #45	PLA-S-LT-SB06-12-13 06/23/2015 #46	PLA-S-LT-SB06-13-14 06/23/2015 #47	PLA-S-LT-SB06-14-15 06/23/2015 #48	PLA-S-LT-SB06-15-16 06/23/2015 #49	PLA-S-LT-SB06-16-17 06/23/2015 #50	PLA-S-LT-SB06-17-18 06/23/2015 #51	PLA-S-LT-SB06-18-19 06/23/2015 #52	PLA-S-LT-SB06-19-20 06/23/2015 #53	PLA-S-FS-SB07-0-1 06/23/2015 #20	PLA-S-FS-SB07-7-8 06/23/2015 #21
<i>Metals</i>																		
Antimony	7440-36-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	7.5 +/- 1.4	8 +/- 1.4	ND	5.2 +/- 1.5	ND	ND	ND	14.2 +/- 1.9	ND	ND	7.8 +/- 1.8	ND	ND	ND	ND	9.2 +/- 1.6	ND
Barium	7440-39-3	150 +/- 50	243 +/- 49	198 +/- 52	ND	ND	218 +/- 41	186 +/- 40	281 +/- 57	222 +/- 44	196 +/- 48	202 +/- 59	164 +/- 40	ND	ND	ND	169 +/- 56	196 +/- 42
Cadmium	7440-43-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	7440-47-3	ND	52 +/- 13	ND	51 +/- 12	ND	53 +/- 10	ND	60 +/- 15	49 +/- 11	58 +/- 12	90 +/- 15	67 +/- 11	ND	30 +/- 10	ND	53 +/- 14	51 +/- 11
Cobalt	7440-48-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	ND	ND	161 +/- 11	47 +/- 10	38 +/- 11	ND	ND	146 +/- 11	ND	116 +/- 10	157 +/- 12	ND	54 +/- 8	75 +/- 8	ND	130 +/- 12	ND
Iron	7439-89-6	15195 +/- 108	18666 +/- 126	11234 +/- 87	10480 +/- 75	9790 +/- 81	3744 +/- 29	2619 +/- 23	31306 +/- 225	7067 +/- 51	14378 +/- 98	24054 +/- 183	5947 +/- 42	4684 +/- 35	4170 +/- 31	4045 +/- 32	17011 +/- 131	4534 +/- 35
Lead	7439-92-1	26 +/- 1.5	25.4 +/- 1.5	100 +/- 3	42.7 +/- 1.7	28.6 +/- 1.7	8.5 +/- 1	7.6 +/- 1	45.9 +/- 1.9	17.2 +/- 1.2	22.6 +/- 1.4	37.9 +/- 1.9	11 +/- 1.1	8.6 +/- 1	8.3 +/- 1	7.7 +/- 1	27.4 +/- 1.7	10.3 +/- 1.1
Manganese	7439-96-5	419 +/- 13	318 +/- 12	310 +/- 12	209 +/- 10	558 +/- 15	67 +/- 7	44 +/- 7	110 +/- 11	63 +/- 8	98 +/- 9	259 +/- 13	172 +/- 8	117 +/- 8	127 +/- 8	133 +/- 8	531 +/- 15	50 +/- 7
Mercury	7439-97-6	ND	6.1 +/- 1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	7439-98-7	12.1 +/- 0.8	9.3 +/- 0.7	ND	2.6 +/- 0.7	ND	ND	ND	35.6 +/- 1	3.6 +/- 0.6	9 +/- 0.7	10.4 +/- 0.8	ND	ND	ND	ND	6.6 +/- 0.9	ND
Nickel	7440-02-0	31 +/- 6	33 +/- 6	33 +/- 7	26 +/- 6	ND	34 +/- 5	32 +/- 5	56 +/- 7	37 +/- 6	52 +/- 6	65 +/- 7	23 +/- 5	35 +/- 5	33 +/- 5	16 +/- 5	42 +/- 7	21 +/- 5
Rubidium	7440-17-7	50.8 +/- 0.9	48.8 +/- 0.9	31.8 +/- 0.8	43.6 +/- 0.8	26.2 +/- 0.8	32.7 +/- 0.7	29.8 +/- 0.6	64.9 +/- 1.1	47.6 +/- 0.8	69.3 +/- 1.1	44.3 +/- 1	31.6 +/- 0.7	26.8 +/- 0.6	26.8 +/- 0.6	25.9 +/- 0.6	52.8 +/- 1	38.3 +/- 0.7
Selenium	7782-49-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	7440-24-6	63.6 +/- 1	71.9 +/- 1	68.4 +/- 1.1	75.7 +/- 1.1	89.8 +/- 1.3	76.9 +/- 0.9	66.1 +/- 0.9	48 +/- 0.9	61 +/- 0.9	59.7 +/- 0.9	355 +/- 3	59.2 +/- 0.8	67.3 +/- 0.9	65.6 +/- 0.9	69.8 +/- 0.9	66.6 +/- 1.1	70 +/- 0.9
Tin	7440-31-5	ND	ND	ND	16 +/- 5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Titanium	7440-32-6	1581 +/- 92	1331 +/- 89	1401 +/- 94	1221 +/- 84	639 +/- 90	1435 +/- 75	646 +/- 69	1442 +/- 104	1348 +/- 80	1841 +/- 90	2110 +/- 112	745 +/- 70	422 +/- 65	366 +/- 62	359 +/- 65	1808 +/- 104	1157 +/- 75
Zinc	7440-66-6	139 +/- 5	100 +/- 4	186 +/- 5	101 +/- 4	294 +/- 7	96 +/- 4	72 +/- 4	315 +/- 7	113 +/- 4	269 +/- 5	232 +/- 6	128 +/- 4	113 +/- 4	103 +/- 4	78 +/- 4	92 +/- 5	55 +/- 4
Zirconium	7440-67-7	137 +/- 1.6	134.7 +/- 1.6	83.5 +/- 1.3	130.4 +/- 1.5	81.3 +/- 1.4	170.2 +/- 1.6	101.6 +/- 1.2	125.7 +/- 1.7	92.6 +/- 1.2	115.5 +/- 1.4	105.5 +/- 1.8	126.3 +/- 1.3	82.1 +/- 1.1	95.8 +/- 1.1	81.1 +/- 1.1	233 +/- 2	139.4 +/- 1.5

Appendix D
 Summary of XRF Results
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Analyte	CAS No	PLA-S-FS-SB07-1-3 06/23/2015 #22	PLA-S-FS-SB07-4-6 06/23/2015 #23	PLA-S-FS-SB07-8-9 06/23/2015 #24	PLA-S-FS-SB07-9-10 06/23/2015 #25	PLA-S-FS-SB07-10-11 06/23/2015 #26	PLA-S-FS-SB07-11-12 06/23/2015 #27	PLA-S-FS-SB07-12-13 06/23/2015 #28	PLA-S-FS-SB07-13-14 06/23/2015 #29	PLA-S-FS-SB07-14-15 06/23/2015 #30	PLA-S-FS-SB07-15-16 06/23/2015 #31	PLA-S-FS-SB07-16-17 06/23/2015 #32	PLA-S-FS-SB07-17-18 06/23/2015 #33	PLA-S-FS-SB07-18-19 06/23/2015 #34	PLA-S-FS-SB07-19-20 06/23/2015 #35	PLA-S-FS-SB08-0-1 06/23/2015 #3	PLA-S-FS-SB08-1-3 06/23/2015 #4	PLA-S-FS-SB08-3-4 06/23/2015 #5	
<i>Metals</i>																			
Antimony	7440-36-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	ND	5 +/- 1.5	ND	ND	9.1 +/- 1.3	ND	ND	ND	3.6 +/- 1.1	ND	ND	ND	5.4 +/- 1.4	8 +/- 1.3	8.2 +/- 1.3	14 +/- 2	62 +/- 3	
Barium	7440-39-3	ND	237 +/- 52	241 +/- 49	169 +/- 45	389 +/- 49	ND	171 +/- 48	ND	270 +/- 44	143 +/- 46	ND	ND	ND	169 +/- 46	231 +/- 51	172 +/- 52	ND	ND
Cadmium	7440-43-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	7440-47-3	40 +/- 12	ND	38 +/- 12	38 +/- 11	96 +/- 12	ND	46 +/- 12	ND	45 +/- 11	51 +/- 12	ND	ND	ND	41 +/- 12	45 +/- 13	43 +/- 13	45 +/- 14	
Cobalt	7440-48-4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	68 +/- 10	65 +/- 11	66 +/- 10	29 +/- 9	35 +/- 9	105 +/- 10	190 +/- 10	120 +/- 9	69 +/- 9	112 +/- 9	25 +/- 8	ND	159 +/- 11	104 +/- 9	ND	ND	ND	40 +/- 11
Iron	7439-89-6	13104 +/- 95	11998 +/- 91	5337 +/- 46	8719 +/- 62	15270 +/- 100	6107 +/- 49	13504 +/- 94	10664 +/- 71	11776 +/- 76	17295 +/- 110	7861 +/- 52	7315 +/- 49	19320 +/- 136	21392 +/- 133	14427 +/- 102	21433 +/- 150	16159 +/- 124	
Lead	7439-92-1	35.6 +/- 1.7	26.1 +/- 1.6	12.6 +/- 1.3	21.3 +/- 1.3	24.1 +/- 1.4	15.9 +/- 1.3	42 +/- 1.7	19.5 +/- 1.3	18.3 +/- 1.2	67.8 +/- 1.9	12.7 +/- 1.1	8 +/- 1	26.3 +/- 1.5	23.7 +/- 1.3	17.4 +/- 1.4	74 +/- 2	75 +/- 2	
Manganese	7439-96-5	636 +/- 15	185 +/- 11	64 +/- 9	80 +/- 8	120 +/- 9	64 +/- 8	95 +/- 9	70 +/- 8	91 +/- 8	102 +/- 9	45 +/- 7	38 +/- 7	73 +/- 9	93 +/- 9	597 +/- 15	607 +/- 15	298 +/- 13	
Mercury	7439-97-6	ND	ND	ND	ND	5.8 +/- 1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13 +/- 2
Molybdenum	7439-98-7	2.8 +/- 0.8	3 +/- 0.8	4 +/- 0.8	4.2 +/- 0.7	8.4 +/- 0.7	2.9 +/- 0.7	11.1 +/- 0.7	4.4 +/- 0.6	3.6 +/- 0.6	7.3 +/- 0.7	ND	ND	7.5 +/- 0.7	9 +/- 0.7	ND	4.6 +/- 0.8	ND	
Nickel	7440-02-0	35 +/- 6	31 +/- 6	42 +/- 6	43 +/- 6	45 +/- 6	ND	41 +/- 6	38 +/- 5	57 +/- 6	48 +/- 6	35 +/- 5	32 +/- 5	38 +/- 6	49 +/- 6	31 +/- 6	35 +/- 6	32 +/- 7	
Rubidium	7440-17-7	47 +/- 0.9	46 +/- 0.9	45.3 +/- 0.9	55.9 +/- 0.9	65.2 +/- 1	43.1 +/- 0.8	61.3 +/- 1	47.4 +/- 0.8	49.7 +/- 0.8	58.9 +/- 0.9	39.1 +/- 0.7	32.5 +/- 0.6	53.5 +/- 1	63.6 +/- 1	53.2 +/- 1	54 +/- 1	50.3 +/- 1	
Selenium	7782-49-2	ND	ND	ND	ND	3.3 +/- 0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	7440-24-6	71.2 +/- 1.1	68.1 +/- 1.1	55.1 +/- 0.9	66.3 +/- 0.9	56.7 +/- 0.9	75.6 +/- 1.1	58.9 +/- 0.9	72.4 +/- 0.9	62.9 +/- 0.9	58.9 +/- 0.9	63.7 +/- 0.8	59.7 +/- 0.8	44.8 +/- 0.8	59.7 +/- 0.9	67.9 +/- 1	68 +/- 1	124.2 +/- 1.6	
Tin	7440-31-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Titanium	7440-32-6	1686 +/- 91	1470 +/- 95	1109 +/- 87	1822 +/- 85	2486 +/- 95	1144 +/- 82	2027 +/- 92	1632 +/- 80	1574 +/- 81	1860 +/- 86	757 +/- 67	626 +/- 65	1393 +/- 89	1624 +/- 85	2106 +/- 97	1852 +/- 98	2076 +/- 105	
Zinc	7440-66-6	102 +/- 5	79 +/- 4	78 +/- 4	83 +/- 4	103 +/- 4	56 +/- 4	153 +/- 5	125 +/- 4	120 +/- 4	145 +/- 4	90 +/- 4	75 +/- 4	198 +/- 5	206 +/- 5	63 +/- 4	156 +/- 5	211 +/- 6	
Zirconium	7440-67-7	196 +/- 2	149.1 +/- 1.8	151.9 +/- 1.8	162.2 +/- 1.7	192 +/- 1.9	124.7 +/- 1.5	104.5 +/- 1.4	110.8 +/- 1.3	97.3 +/- 1.2	106.5 +/- 1.3	67.9 +/- 1	80.9 +/- 1	106.9 +/- 1.4	139.8 +/- 1.5	224 +/- 2	181.4 +/- 2	189 +/- 2	

Appendix D
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Analyte	CAS No	PLA-S-FS-SB08-5-7 06/23/2015 #6	PLA-S-FS-SB08-7-8 06/23/2015 #7	PLA-S-FS-SB08-8-9 06/23/2015 #8	PLA-S-FS-SB08-9-10 06/23/2015 #9	PLA-S-FS-SB08-10-11 06/23/2015 #10	PLA-S-FS-SB08-11-12 06/23/2015 #11	PLA-S-FS-SB08-12-13 06/23/2015 #12	PLA-S-FS-SB08-13-14 06/23/2015 #14	PLA-S-FS-SB08-14-15 06/23/2015 #15	PLA-S-FS-SB08-15-16 06/23/2015 #16	PLA-S-FS-SB08-16-17 06/23/2015 #17	PLA-S-FS-SB08-17-18 06/23/2015 #18	PLA-S-FS-SB08-19-20 06/23/2015 #19	PLA-S-FS-SB09-0-1 06/22/2015 #25	PLA-S-FS-SB09-1-4 06/22/2015 #26	PLA-S-FS-SB09-4-6 06/22/2015 #28	PLA-S-FS-SB09-6-7 06/22/2015 #29
<i>Metals</i>																		
Antimony	7440-36-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	212 +/- 33	ND	197 +/- 26	214 +/- 27
Arsenic	7440-38-2	8.2 +/- 1.3	ND	ND	ND	ND	ND	ND	ND	7.7 +/- 1.6	26.9 +/- 2	4.1 +/- 1.1	19.4 +/- 1.6	4.5 +/- 1.3	ND	ND	ND	ND
Barium	7440-39-3	297 +/- 48	156 +/- 51	ND	ND	157 +/- 42	ND	195 +/- 48	180 +/- 42	267 +/- 64	ND	155 +/- 41	305 +/- 54	ND	ND	ND	3.2 +/- 1	ND
Cadmium	7440-43-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	7440-47-3	60 +/- 12	46 +/- 13	ND	ND	33 +/- 11	ND	ND	ND	49 +/- 16	ND	ND	78 +/- 14	43 +/- 13	32 +/- 10	ND	ND	32 +/- 9
Cobalt	7440-48-4	--	--	--	--	--	--	--	--	--	--	--	--	--	17 +/- 5	16 +/- 5	42 +/- 4	51 +/- 4
Copper	7440-50-8	ND	72 +/- 10	ND	ND	105 +/- 9	ND	142 +/- 10	79 +/- 9	153 +/- 12	128 +/- 11	50 +/- 9	118 +/- 10	133 +/- 11	178 +/- 4	121 +/- 3	105 +/- 3	535 +/- 5
Iron	7439-89-6	15425 +/- 102	23509 +/- 159	6752 +/- 49	2083 +/- 20	4629 +/- 36	3960 +/- 34	11041 +/- 79	4925 +/- 38	40025 +/- 301	42732 +/- 297	8101 +/- 55	24912 +/- 169	13974 +/- 102	15820 +/- 96	11478 +/- 67	11113 +/- 60	17017 +/- 86
Lead	7439-92-1	20.4 +/- 1.3	192 +/- 3	13.4 +/- 1.2	7.3 +/- 1	8.5 +/- 1.1	10 +/- 1.2	20.6 +/- 1.4	12.8 +/- 1.2	17.4 +/- 1.6	51.2 +/- 2	14.6 +/- 1.2	32 +/- 1.6	16.5 +/- 1.4	138 +/- 2	124.2 +/- 2	45.9 +/- 1.1	46.3 +/- 1.1
Manganese	7439-96-5	237 +/- 10	339 +/- 12	143 +/- 9	48 +/- 7	43 +/- 7	67 +/- 8	96 +/- 9	46 +/- 7	242 +/- 14	220 +/- 12	57 +/- 7	123 +/- 10	168 +/- 10	318 +/- 9	340 +/- 9	155 +/- 6	200 +/- 7
Mercury	7439-97-6	5.5 +/- 1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Molybdenum	7439-98-7	13.7 +/- 0.8	4.3 +/- 0.7	ND	ND	ND	ND	ND	ND	10.5 +/- 0.9	28.9 +/- 0.9	4.3 +/- 0.6	30.5 +/- 0.9	8.1 +/- 0.7	ND	ND	ND	ND
Nickel	7440-02-0	41 +/- 6	39 +/- 6	22 +/- 5	17 +/- 5	39 +/- 5	22 +/- 6	30 +/- 6	ND	51 +/- 8	60 +/- 7	32 +/- 5	64 +/- 7	31 +/- 6	102 +/- 8	91 +/- 7	ND	72 +/- 6
Rubidium	7440-17-7	62 +/- 1	44 +/- 0.9	40.6 +/- 0.8	33.7 +/- 0.7	37 +/- 0.7	41.8 +/- 0.8	53.7 +/- 0.9	36.2 +/- 0.7	75.6 +/- 1.3	60 +/- 1.1	40.5 +/- 0.7	99.2 +/- 1.3	49 +/- 0.9	82.2 +/- 0.9	103.5 +/- 1	146 +/- 1.1	74.7 +/- 0.7
Selenium	7782-49-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37 +/- 0.7	31.1 +/- 0.6	35.1 +/- 0.5	38.7 +/- 0.6
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	7440-24-6	76.7 +/- 1	95.8 +/- 1.2	68.7 +/- 0.9	59.8 +/- 0.8	62 +/- 0.9	69 +/- 1	63.1 +/- 1	73.6 +/- 1	37.5 +/- 0.9	50.2 +/- 0.9	61.9 +/- 0.9	65.9 +/- 1	50.7 +/- 0.9	138.4 +/- 1.3	109.2 +/- 1.1	108.4 +/- 1	115 +/- 1
Tin	7440-31-5	ND	17 +/- 5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Titanium	7440-32-6	1870 +/- 90	1755 +/- 95	1047 +/- 76	1060 +/- 71	1467 +/- 78	1187 +/- 80	2075 +/- 92	1031 +/- 75	2451 +/- 123	2095 +/- 109	1056 +/- 74	2277 +/- 102	1441 +/- 90	1973 +/- 83	1247 +/- 69	954 +/- 62	1627 +/- 68
Zinc	7440-66-6	109 +/- 4	112 +/- 5	57 +/- 4	29 +/- 3	60 +/- 4	42 +/- 4	87 +/- 4	58 +/- 4	179 +/- 6	244 +/- 6	105 +/- 4	402 +/- 7	164 +/- 5	8.9 +/- 1.6	ND	2.9 +/- 0.8	5.7 +/- 0.8
Zirconium	7440-67-7	179.5 +/- 1.8	130.6 +/- 1.6	107.8 +/- 1.3	125.6 +/- 1.4	168.9 +/- 1.6	169.8 +/- 1.8	232 +/- 2	98.5 +/- 1.2	105.8 +/- 1.6	111.8 +/- 1.5	104.1 +/- 1.2	149.3 +/- 1.7	97.1 +/- 1.4	3.3 +/- 0.5	2.3 +/- 0.5	2.2 +/- 0.4	2.5 +/- 0.4

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Analyte	CAS No	PLA-S-FS-SB09-7-8 06/22/2015 #30	PLA-S-FS-SB09-8-10 06/22/2015 #31	PLA-S-FS-SB09-10-12 06/22/2015 #32	PLA-S-FS-SB09-12-14 06/22/2015 #33	PLA-S-FS-SB09-14-16 06/22/2015 #34	PLA-S-FS-SB09-16-18 06/22/2015 #35	PLA-S-FS-SB09-18-20 06/22/2015 #36	PLA-S-ROAD-SB10-2-4 06/19/2015 #13	PLA-S-ROAD-SB10-4-5 06/19/2015 #14	PLA-S-ROAD-SB10-0-1 06/19/2015 #15	PLA-S-ROAD-SB10-6-8 06/19/2015 #16	PLA-S-ROAD-SB10-8-10 06/19/2015 #17	PLA-S-ROAD-SB10-10-12 06/19/2015 #18	PLA-S-ROAD-SB10-12-14 06/19/2015 #19	PLA-S-ROAD-SB10-14-16 06/19/2015 #20	PLA-S-ROAD-SB10-16-18 06/19/2015 #21	PLA-S-ROAD-SB10-18-20 06/19/2015 #22	
<i>Metals</i>																			
Antimony	7440-36-0	219 +/- 28	233 +/- 25	90 +/- 23	198 +/- 23	213 +/- 25	ND	137 +/- 24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	7440-38-2	ND	ND	ND	ND	ND	ND	ND	ND	4.7 +/- 1.2	8.9 +/- 1.3	ND	7.3 +/- 0.7	ND	ND	ND	ND	ND	ND
Barium	7440-39-3	ND	ND	ND	ND	ND	ND	ND	ND	186 +/- 43	231 +/- 47	280 +/- 44	ND	146 +/- 45	265 +/- 44	201 +/- 42	ND	ND	241 +/- 41
Cadmium	7440-43-9	14 +/- 4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	7440-47-3	29 +/- 9	30 +/- 8	ND	ND	38 +/- 8	ND	ND	ND	33 +/- 11	67 +/- 12	43 +/- 11	ND	ND	52 +/- 11	39 +/- 10	ND	ND	49 +/- 11
Cobalt	7440-48-4	59 +/- 5	38 +/- 4	44 +/- 4	44 +/- 4	48 +/- 4	16 +/- 4	45 +/- 4	--	--	--	--	--	--	--	--	--	--	--
Copper	7440-50-8	353 +/- 4	49 +/- 2	58 +/- 2	57 +/- 2	66 +/- 3	83 +/- 3	71 +/- 3	ND	ND	ND	34 +/- 9	ND	197 +/- 10	65 +/- 9	72 +/- 9	ND	ND	ND
Iron	7439-89-6	19543 +/- 100	4196 +/- 26	3867 +/- 24	2938 +/- 20	5197 +/- 31	6568 +/- 36	6550 +/- 37	36865 +/- 1494	10509 +/- 70	15014 +/- 100	11594 +/- 75	13664 +/- 67	7911 +/- 57	12509 +/- 79	5958 +/- 42	5180 +/- 39	5547 +/- 41	5547 +/- 41
Lead	7439-92-1	55.1 +/- 1.2	7.2 +/- 0.6	6.4 +/- 0.6	7.5 +/- 0.6	11.2 +/- 0.7	12.1 +/- 0.7	9.2 +/- 0.7	52 +/- 12	17.1 +/- 1.2	17.2 +/- 1.3	218 +/- 3	3.3 +/- 0.7	15.5 +/- 1.2	15.1 +/- 1.2	21.2 +/- 1.2	8.7 +/- 1.1	7.7 +/- 1.1	7.7 +/- 1.1
Manganese	7439-96-5	264 +/- 8	55 +/- 5	43 +/- 5	44 +/- 5	54 +/- 5	34 +/- 4	55 +/- 5	271 +/- 73	131 +/- 8	331 +/- 11	143 +/- 8	729 +/- 11	165 +/- 9	277 +/- 10	75 +/- 7	92 +/- 8	92 +/- 8	92 +/- 8
Mercury	7439-97-6	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	7439-98-7	ND	5.9 +/- 1.8	ND	ND	ND	ND	ND	ND	3 +/- 0.6	9 +/- 0.7	4.8 +/- 0.6	8.9 +/- 0.5	ND	ND	ND	ND	ND	ND
Nickel	7440-02-0	129 +/- 7	18 +/- 6	90 +/- 6	31 +/- 6	66 +/- 6	63 +/- 6	73 +/- 6	ND	35 +/- 5	33 +/- 6	44 +/- 5	ND	41 +/- 6	43 +/- 5	50 +/- 5	16 +/- 5	28 +/- 5	28 +/- 5
Rubidium	7440-17-7	83.8 +/- 0.8	69.5 +/- 0.7	60.1 +/- 0.6	82.6 +/- 0.7	56.9 +/- 0.6	70.5 +/- 0.7	70.4 +/- 0.7	41 +/- 5	39 +/- 0.7	47.6 +/- 0.9	42.1 +/- 0.8	4.2 +/- 0.3	63.3 +/- 1	57.2 +/- 0.9	45.6 +/- 0.8	31.5 +/- 0.7	34.3 +/- 0.7	34.3 +/- 0.7
Selenium	7782-49-2	36.7 +/- 0.6	37.7 +/- 0.5	31.2 +/- 0.5	30.1 +/- 0.5	40.4 +/- 0.5	45.1 +/- 0.6	35.5 +/- 0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	7440-24-6	109.9 +/- 1	151.5 +/- 1.1	81.9 +/- 0.8	70.2 +/- 0.7	84.5 +/- 0.8	131.6 +/- 1	84.7 +/- 0.8	87 +/- 7	69.1 +/- 0.9	60.7 +/- 0.9	73.4 +/- 0.9	12.3 +/- 0.3	69.1 +/- 1	88.8 +/- 1	71.4 +/- 0.9	65.7 +/- 0.9	72.8 +/- 0.9	72.8 +/- 0.9
Tin	7440-31-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Titanium	7440-32-6	1716 +/- 70	1545 +/- 62	1004 +/- 55	803 +/- 55	1495 +/- 62	1105 +/- 54	891 +/- 57	2276 +/- 642	1170 +/- 77	1402 +/- 85	1359 +/- 79	224 +/- 45	1914 +/- 85	2045 +/- 84	1338 +/- 75	582 +/- 68	534 +/- 70	534 +/- 70
Zinc	7440-66-6	7.8 +/- 0.9	ND	ND	ND	ND	ND	ND	848 +/- 59	86 +/- 4	120 +/- 4	143 +/- 4	11 +/- 2	122 +/- 4	83 +/- 4	95 +/- 4	46 +/- 3	65 +/- 4	65 +/- 4
Zirconium	7440-67-7	2.9 +/- 0.4	ND	ND	ND	ND	ND	ND	106 +/- 9	97.6 +/- 1.2	153.6 +/- 1.6	106 +/- 1.3	17.4 +/- 0.5	270 +/- 2	295 +/- 2	114.8 +/- 1.3	69.6 +/- 1	71.4 +/- 1	71.4 +/- 1

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Analyte	CAS No	PLA-S-ROAD-SB11-0-1 06/22/2015 #3	PLA-S-ROAD-SB11-2-4 06/22/2015 #4	PLA-S-ROAD-SB11-4-6 06/22/2015 #5	PLA-S-ROAD-SB11-6-8 06/22/2015 #6	PLA-S-ROAD-SB11-8-10 06/22/2015 #7	PLA-S-ROAD-SB11-10-12 06/22/2015 #8	PLA-S-ROAD-SB11-12-14 06/22/2015 #10	PLA-S-ROAD-SB11-14-16 06/22/2015 #12	PLA-S-ROAD-SB11-16-18 06/22/2015 #13	PLA-S-ROAD-SB11-18-20 06/22/2015 #14	PLA-S-ROAD-SB12-0-1 06/22/2015 #14	PLA-S-ROAD-SB12-1-2 06/22/2015 #15	PLA-S-ROAD-SB12-2-4 06/22/2015 #16	PLA-S-ROAD-SB12-4-6 06/22/2015 #17	PLA-S-ROAD-SB12-6-7 06/22/2015 #18	PLA-S-ROAD-SB12-7-8 06/22/2015 #19	PLA-S-ROAD-SB12-8-12 06/22/2015 #20	
<i>Metals</i>																			
Antimony	7440-36-0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	106 +/- 35	174 +/- 36	346 +/- 30	189 +/- 33	189 +/- 27	ND	210 +/- 28	
Arsenic	7440-38-2	ND	7.3 +/- 1.2	8.8 +/- 1.5	7.7 +/- 1.2	3.6 +/- 1.1	ND	ND	ND	ND	4.8 +/- 1.1	ND	ND	ND	ND	ND	ND	ND	
Barium	7440-39-3	8845 +/- 133	316 +/- 47	276 +/- 52	308 +/- 47	ND	346 +/- 46	205 +/- 48	292 +/- 50	159 +/- 45	189 +/- 43	ND	ND	3.3 +/- 1.1	ND	ND	ND	ND	
Cadmium	7440-43-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chromium	7440-47-3	719 +/- 26	55 +/- 12	56 +/- 13	57 +/- 12	ND	65 +/- 11	52 +/- 12	59 +/- 13	ND	34 +/- 11	ND	ND	72 +/- 10	ND	ND	ND	30 +/- 9	
Cobalt	7440-48-4	--	--	--	--	--	--	--	--	--	--	31 +/- 6	27 +/- 6	61 +/- 5	22 +/- 5	28 +/- 4	ND	32 +/- 5	
Copper	7440-50-8	ND	ND	47 +/- 10	44 +/- 9	ND	ND	95 +/- 10	65 +/- 10	31 +/- 10	55 +/- 9	72 +/- 4	64 +/- 4	106 +/- 3	99 +/- 3	99 +/- 3	68 +/- 3	128 +/- 3	
Iron	7439-89-6	28847 +/- 207	14771 +/- 97	20113 +/- 140	16116 +/- 105	4611 +/- 33	6937 +/- 49	13338 +/- 92	13075 +/- 94	4995 +/- 42	5182 +/- 40	11287 +/- 80	13382 +/- 94	19169 +/- 100	28039 +/- 159	11227 +/- 62	7911 +/- 47	13483 +/- 74	
Lead	7439-92-1	3917 +/- 30	18.8 +/- 1.3	30.1 +/- 1.6	18.1 +/- 1.3	24.9 +/- 1.2	15.3 +/- 1.2	14.8 +/- 1.3	11 +/- 1.3	6.2 +/- 1.2	11.8 +/- 1.2	14.3 +/- 1	11.5 +/- 1	30.1 +/- 1	48.7 +/- 1.4	14.5 +/- 0.8	10.5 +/- 0.8	20.5 +/- 0.9	
Manganese	7439-96-5	321 +/- 16	458 +/- 12	469 +/- 14	347 +/- 11	39 +/- 6	89 +/- 8	117 +/- 9	340 +/- 12	281 +/- 11	95 +/- 8	512 +/- 12	245 +/- 10	263 +/- 8	136 +/- 8	269 +/- 8	145 +/- 6	213 +/- 7	
Mercury	7439-97-6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	
Molybdenum	7439-98-7	16.3 +/- 0.9	9.8 +/- 0.7	13.3 +/- 0.8	11.5 +/- 0.7	2.9 +/- 0.6	ND	ND	ND	ND	9.7 +/- 0.7	ND	ND	ND	ND	ND	ND	ND	
Nickel	7440-02-0	67 +/- 8	51 +/- 6	30 +/- 6	42 +/- 6	ND	52 +/- 6	59 +/- 6	50 +/- 6	47 +/- 6	29 +/- 5	130 +/- 9	119 +/- 9	ND	ND	ND	ND	79 +/- 7	
Rubidium	7440-17-7	68 +/- 1.2	52 +/- 0.9	57.6 +/- 1	54.6 +/- 0.9	22 +/- 0.5	55.5 +/- 0.9	43.2 +/- 0.8	35.7 +/- 0.8	25.8 +/- 0.7	46.5 +/- 0.8	67.1 +/- 0.9	72.4 +/- 1	82.9 +/- 0.8	87.6 +/- 0.9	66.5 +/- 0.7	70.2 +/- 0.8	66.2 +/- 0.7	
Selenium	7782-49-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49.8 +/- 0.8	61.1 +/- 0.9	71.9 +/- 0.8	49.3 +/- 0.7	40.9 +/- 0.6	39.2 +/- 0.6	51.3 +/- 0.7	
Silver	7440-22-4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Strontium	7440-24-6	225 +/- 2	79.2 +/- 1	65 +/- 1	58.2 +/- 0.9	26 +/- 0.5	82.9 +/- 1	142 +/- 1.5	243 +/- 2	199.9 +/- 1.9	108.3 +/- 1.2	193.3 +/- 1.8	184.6 +/- 1.8	151.1 +/- 1.2	205.7 +/- 1.7	80.2 +/- 0.8	67.7 +/- 0.8	102.1 +/- 1	
Tin	7440-31-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Titanium	7440-32-6	3149 +/- 196	1540 +/- 86	1725 +/- 97	1437 +/- 86	707 +/- 57	2474 +/- 89	2042 +/- 91	1384 +/- 91	804 +/- 79	904 +/- 75	1822 +/- 89	1737 +/- 92	1963 +/- 75	1524 +/- 81	921 +/- 63	759 +/- 61	1555 +/- 71	
Zinc	7440-66-6	2785 +/- 24	152 +/- 4	158 +/- 5	125 +/- 4	2155 +/- 15	244 +/- 5	284 +/- 6	67 +/- 4	53 +/- 4	51 +/- 4	3.9 +/- 0.8	3.7 +/- 0.8	9.2 +/- 0.8	8 +/- 1	4.7 +/- 0.6	2.7 +/- 0.6	7.7 +/- 0.7	
Zirconium	7440-67-7	137.5 +/- 1.9	167.8 +/- 1.7	127.2 +/- 1.6	118.2 +/- 1.4	79.1 +/- 1	268 +/- 2	201 +/- 2	144.8 +/- 1.8	121.2 +/- 1.6	164.3 +/- 1.7	ND	ND	8.2 +/- 0.5	11 +/- 0.6	6.4 +/- 0.4	3.4 +/- 0.4	18.5 +/- 0.5	

Appendix D
 Summary of XRF Results
 NewPorte Landing Development Site - PLA Parcel
 La Porte, Indiana

Analyte	CAS No	PLA-S-ROAD- SB12-12-14 06/22/2015 #21	PLA-S-ROAD- SB12-14-16 06/22/2015 #22	PLA-S-ROAD- SB12-16-18 06/22/2015 #23	PLA-S-ROAD- SB12-18-20 06/22/2015 #24
<i>Metals</i>					
Antimony	7440-36-0	191 +/- 27	360 +/- 31	ND	224 +/- 29
Arsenic	7440-38-2	ND	ND	ND	ND
Barium	7440-39-3	ND	ND	ND	ND
Cadmium	7440-43-9	ND	ND	ND	ND
Chromium	7440-47-3	32 +/- 9	46 +/- 10	ND	31 +/- 9
Cobalt	7440-48-4	56 +/- 5	71 +/- 5	33 +/- 6	82 +/- 5
Copper	7440-50-8	137 +/- 3	155 +/- 3	163 +/- 4	209 +/- 4
Iron	7439-89-6	12334 +/- 66	16978 +/- 93	22029 +/- 134	23781 +/- 120
Lead	7439-92-1	16.8 +/- 0.8	24.3 +/- 1	19.7 +/- 1	28 +/- 1
Manganese	7439-96-5	98 +/- 6	168 +/- 7	194 +/- 9	300 +/- 8
Mercury	7439-97-6	--	--	--	--
Molybdenum	7439-98-7	ND	ND	ND	ND
Nickel	7440-02-0	44 +/- 6	86 +/- 7	127 +/- 8	120 +/- 7
Rubidium	7440-17-7	52.3 +/- 0.6	88.4 +/- 0.9	49.1 +/- 0.7	51.6 +/- 0.6
Selenium	7782-49-2	44.8 +/- 0.6	70.7 +/- 0.8	50.5 +/- 0.8	57.9 +/- 0.7
Silver	7440-22-4	ND	ND	ND	ND
Strontium	7440-24-6	155.7 +/- 1.2	205.2 +/- 1.6	126.8 +/- 1.3	103.3 +/- 0.9
Tin	7440-31-5	ND	ND	ND	ND
Titanium	7440-32-6	1291 +/- 65	2258 +/- 80	1775 +/- 84	1762 +/- 72
Zinc	7440-66-6	4.3 +/- 0.6	6.2 +/- 0.8	8.4 +/- 0.9	7.6 +/- 0.8
Zirconium	7440-67-7	8.6 +/- 0.5	10.8 +/- 0.5	11.4 +/- 0.6	13.6 +/- 0.5

APPENDIX E

Groundwater Sampling Logs

Well Purging and Sampling Form

Well No.: ^{NO 6/24/15} ~~4P~~ PLA-GTW-GP-SB01

Date: 6/24/15

Site Name: Newport Development Project No.: CHR8417

Purging Method: Pumped Bailed Micropurge Other: low flow

Pump Type: peristaltic Bailer Type: _____

Weather Conditions: overcast, 70s

Volume Calculation: (19.80 - 4.30) * 0.04 = 0.42

(DTB - DTW x vol/ft = PVC/well volume) + (N* x H* x Annulus vol/ft) = Total Well Volume

* Wells that cannot be purged dry, 10x the Total Well Volume must be purgeGal/well volume: Wells that can be purged dry, slowly removing water without surging until dry

Time	Depth to Water (DTW) in ft	Depth to Bottom (DTB) in ft	Volume Removed (gal)	pH	Conductivity (MMHOS/CM)	Temp (°C)	Color	Odor (Y/N)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1520	4.30	14.80	Began purging @ a rate of $\frac{300 \text{ ml}}{90 \text{ s}}$ speed								
1530	5.07			6.92	0.487	18.30	Brown	Y	—*	5.37	-72
1535	5.09			6.85	0.454	17.92	"	—	3227 [*] _{AV}	2.71	-67
1540	5.10			6.81	0.432	17.74	"	Y	1458 [*] _{AV}	1.81	-63
1545	5.02			6.76	0.405	17.70	"	Y	1507 [*] _{AV}	1.13	-59
1550	5.06			6.74	0.391	17.62	"	Y	1823 [*] _{AV}	0.81	-56
1555	5.03			6.72	0.380	17.60	"	Y	1421 [*] _{AV}	0.55	-53
1600	5.07			6.72	0.377	17.56	"	Y	1323 [*] _{AV}	0.40	-52
1605	5.03			6.72	0.375	17.52	"	Y	1875 [*] _{AV}	0.28	-52
1605		Final Sample Readings									

Comments:
PLA-GTW-GP-SB01 collected @ 16:10
odor is somewhat sewage smelling

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: Time: _____
Well Duplicate Taken: No.: _____

Air Monitoring

Location	Hnu/PPM	LEL %	O2%	H2S/PPM	CO/PPM
NO 6/24/15					

Signature: _____
Date: _____

* Sonde is reading 0 for turbidity, LaMotte turbidimeter used for reading instead

Well Purging and Sampling Form

Well No.: PLA-GTW-LT-SB06

Date: 6/25/15

Site Name: Newport Development Project No.: CHR 8417

Purging Method: Pumped Bailed Micropurge Other: Low Flow

Pump Type: Peristaltic Bailer Type: _____

Weather Conditions: Overcast, 70s

Volume Calculation: $(14.75' - 7.27') \cdot 0.04 = 0.299$

(DTB - DTW x vol/ft = PVC/well volume) + (N x H x Annulus vol/ft) = Total Well Volume

* Wells that cannot be purged dry, 10x the Total Well Volume must be purgeGal/well volume: Wells that can be purged dry, slowly removing water without surging until dry

Time	Depth to Water (DTW) in ft	Depth to Bottom (DTB) in ft	Volume Removed (gal)	pH	Conductivity (MMHOS/CM)	Temp (°C)	Color	Odor (Y/N)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
15:20	7.27'	14.15'	Begin								
			to pump								
15:25	7.32'			7.24	1.66	16.94	light brown	N	71000	15.11	-213
15:30	7.34'			7.23	1.66	16.29	clear	N	615	5.80	-213
15:35	7.34'			7.19	1.65	16.04	"	N	193	2.28	-213
15:40	7.33'			7.19	1.65	16.06	"	N	151	1.01	-212
15:45	7.34'			7.19	1.66	15.85	"	N	132	0.42	-211
15:50	7.34'			7.20	1.66	15.87	"	N	201	0.07	-211
16:00	7.35'			7.24	1.66	15.91	"	N	286	0.00	-214
16:00	7.35'	Final Sample Readings		7.24	1.66	15.91	"	N	286	0.00	-214

Comments:
PLA-GTW-LT-SB06 sampled @ 16:05

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: Time: _____

Well Duplicate Taken: No.: _____

an 205

Signature: _____
Date: 6/25/15

Air Monitoring

Location	Hnu/PPM	LEL %	O2%	H2S/PPM	CO/PPM

Well Purging and Sampling Form

Well No.: PLA-GTW-FS-SB09

Date: 6/23/15

Site Name: Newporte Development Project No.: CHR8417

Purging Method: Pumped Bailed Micropurge Other: low flow

Pump Type: Peristaltic Bailer Type: _____

Weather Conditions: sunny, 70s

Volume Calculation: (13.46' - 5.79') * 0.04 = 0.307

(DTB - DTW x vol/ft = PVC/well volume) + (N* x H* x Annulus vol/ft) = Total Well Volume

* Wells that cannot be purged dry, 10x the Total Well Volume must be purgeGal/well volume: Wells that can be purged dry, slowly removing water without surging until dry

→
turn up
flow rate
to:
300 g/s
213 ml/min

Time	Depth to Water (DTW) in ft	Depth to Bottom (DTB) in ft	Volume Removed (gal)	pH	Conductivity (MMHOS/CM)	Temp (°C)	Color	Odor (Y/N)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:20	5.79'	13.46'	start purging @ 300 ml/gss = 189 ml/min								
10:25	—			7.23	0.634	17.63	cloudy, brown/clear	—	423	1.81	-36
10:30	5.81			7.25	0.621	17.47	"	—	143	0.88	-45
10:35	5.87			7.25	0.620	17.45	clear	—	66.3	0.51	-48
10:40	5.89			7.25	0.618	17.43	"	—	102	0.40	-49
10:45	5.89			7.25	0.620	17.45	"	—	376	0.34	-50
10:50	5.90			7.24	0.624	17.54	"	—	392	0.33	-50
10:55	5.90			7.24	0.622	17.58	"	—	359	0.28	-50
		↓									
10:55	5.90	Final Sample Readings		7.24	0.622	17.58	clear	—	359	0.28	-50

Comments:

PLA-GTW-FS-SB09 @ 10:55

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: Time: _____
Well Duplicate Taken: No.: _____

Air Monitoring

Location	Hnu/PPM	LEL %	O2%	H2S/PPM	CO/PPM
AP 6/23/15					

Signature: [Signature]
Date: 6/23/15

Well Purging and Sampling Form

Well No.: PLA-GTW-ROAD-SB10

Date: 6/25/15

Site Name: Newport Development Project No.: CHR8417

Purging Method: Pumped Bailed Micropurge Other: low flow

Pump Type: Peristaltic Bailer Type: _____

Weather Conditions: overcast 70s

Volume Calculation: (16.06' - 4.35') * 0.04 = 0.468

(DTB - DTW x vol/ft = PVC/well volume) + (N * H * x Annulus vol/ft) = Total Well Volume

* Wells that cannot be purged dry, 10x the Total Well Volume must be purged Gal/well volume: Wells that can be purged dry, slowly removing water without surging until dry

Time	Depth to Water (DTW) in ft	Depth to Bottom (DTB) in ft	Volume Removed (gal)	pH	Conductivity (MMHOS/CM)	Temp (°C)	Color	Odor (Y/N)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1410	4.35'	16.06'	Began				purging @ 300ml				
1415	4.50'			6.63	0.728	19.77	light brown	-	1246 NTU	1.45	-159
1420	4.57'			6.70	0.725	19.42	"	-	629 NTU	0.78	-163
1425	4.57'			6.71	0.720	19.29	"	-	51000 NTU (75*)	0.61	-163
1430	4.60'			6.72	0.717	19.08	"	-	620	0.44	-162
14:35	4.60'			6.72	0.718	19.01	"	-	433	0.38	-160
1440	4.60'			6.73	0.718	18.96	clear	-	309	0.29	-159
14:40	4.60'	Final Sample Readings		6.73	0.718	18.96	clear	-	309	0.29	-159

Comments:
Pressure was built underneath the well cap, when loosened the cap popped out
PLA-GTW-ROAD-SB10 collected @ 1445

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: Time: _____
Well Duplicate Taken: No.: _____



Signature: _____
Date: 6/25/15

Air Monitoring

Location	Hnu/PPM	LEL %	O2%	H2S/PPM	CO/PPM
	AD	6/25/15			

* Measured by the turbidimeter Page 1 of 1

Job water dump -
 38 - 18EPA
 - pond seal area - to dig
 Sample -
 in slabs
 di i sandy
 water
 load cell
 above ground
 below 1' depth
 NO
 6/23/15

Well Purging and Sampling Form

Well No.: PLA-GTW-ROAD-SB11

Date: 6/23/15

Site Name: Pine Lake Avenue Newport Development Project No.: CHR8417

Purging Method: Pumped Bailed Micropurge Other: Low Flow

Pump Type: peripump Bailer Type:

Weather Conditions: 70s, sunny

Volume Calculation: $(13.91ft - 4.1ft) \times 0.04 = 0.392$

(DTB - DTW x vol/ft = PVC/well volume) + (N x H x Annulus vol/ft) = Total Well Volume

* Wells that cannot be purged dry, 10x the Total Well Volume must be purgeGal/well volume: Wells that can be purged dry, slowly removing water without surging until dry

855
 805
 NO
 8:15 begin to pump @ flow rate: ~300 ml / 17 sec. = 233.76 ml/min

Time	Depth to Water (DTW) in ft	Depth to Bottom (DTB) in ft	Volume Removed (gal)	pH	Conductivity (MMHOS/CM)	Temp (°C)	Color	Odor (Y/N)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
9:00	5.18	13.91		6.39	0.507	16.95	clear	-	64.4	4.79	-17
9:05	5.45			6.41	0.554	16.66	clear	-	50.3	2.55	-13
9:10	5.96			6.46	0.583	16.47	clear	-	79.1	1.84	-9
9:15	6.32			6.45	0.563	16.15	clear	-	119	1.50	-13
9:20	6.61			6.42	0.541	15.88	clear	-	136	1.20	-15
9:25	6.98			-	0.526	15.59	clear	-	135	0.97	-21
9:30	7.14			6.39	0.515	15.35	clear	-	146	0.75	-26
9:35	6.37			6.38	0.510	15.20	clear	-	157	0.64	-29
@ 9:35 due to rising turbidity, pause pumping to allow well to recharge											
Final Sample Readings											

slow pump to
 300 ml / 18 sec
 slow pump to
 300 ml / 85 sec

Comments: Sample collected after well recharge (page 2 of 2)

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: Time: _____
 Well Duplicate Taken: No.: _____

Air Monitoring

Location	Hnu/PPM	LEL %	O2%	H2S/PPM	CO/PPM

Signature: [Signature]
 Date: 6/23/15

Well Purging and Sampling Form

Well No.: PLA-GTW-ROAD-SB11

Date: 6/23/15 ^{no 6/23}

Site Name: Newtowne Development
Newport

Project No.: CH28417

Purging Method: Pumped Bailed Micropurge Other: low flow

Pump Type: peristaltic Bailer Type: _____

Weather Conditions: 70s, sunny

Volume Calculation: (13.91 - 4) (60) * 0.04 = 0.372

(DTB - DTW x vol/ft = PVC/well volume) + (N* x H* x Annulus vol/ft) = Total Well Volume

* Wells that cannot be purged dry, 10x the Total Well Volume must be purgeGal/well volume: Wells that can be purged dry, slowly removing water without surging until dry

Time	Depth to Water (DTW) in ft	Depth to Bottom (DTB) in ft	Volume Removed (gal)	pH	Conductivity (MMHOS/CM)	Temp (°C)	Color	Odor (Y/N)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
11:35	4.60										
Begin purging at a rate of 300ml/min = 216.8 ml/min											
11:40	5.25	13.91		6.37	6.478	16.76	clear	-	28.8	6.81	-26
11:45	5.64			6.40	6.493	16.61	clear	-	32.0	5.25	-21
11:50	5.97			6.43	0.509	16.42	clear	-	59.3	4.44	-20
11:55	6.27			6.44	0.514	16.24	clear	-	80.1	3.77	-21
12:00	6.55			6.43	0.515	16.12	clear	-	87.0	2.22	-23
12:05	6.82			6.43	0.516	15.95	clear	-	100	1.79	-25
12:05	6.82	Final Sample Readings		6.43	0.516	15.95	clear	-	100	1.79	-25

Comments:

Sample collected after well recharge
PLA-GTW-ROAD-SB11 @ ~~12:05~~ 12:10
^{no 6/23/15}

Well I.D.	Gallons/ft
1"	0.04
1.25"	0.06
2"	0.16
4"	0.65

Field Blank Taken: Time: _____

Well Duplicate Taken: No.: _____

Air Monitoring

Location	Hnu/PPM	LEL %	O2%	H2S/PPM	CO/PPM

(Table is crossed out with a diagonal line and contains handwritten text "no 6/23/15")

Signature: _____

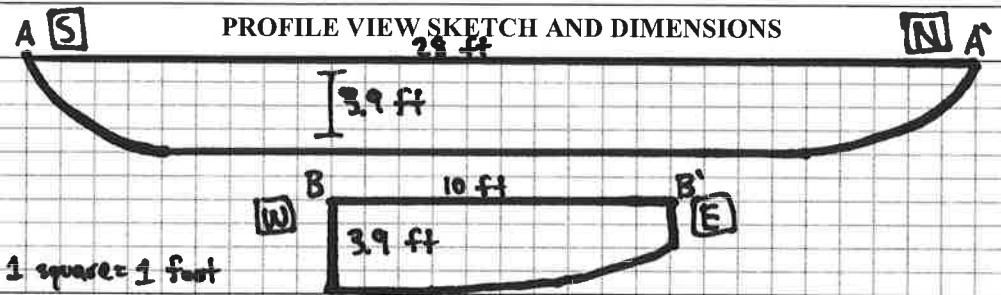
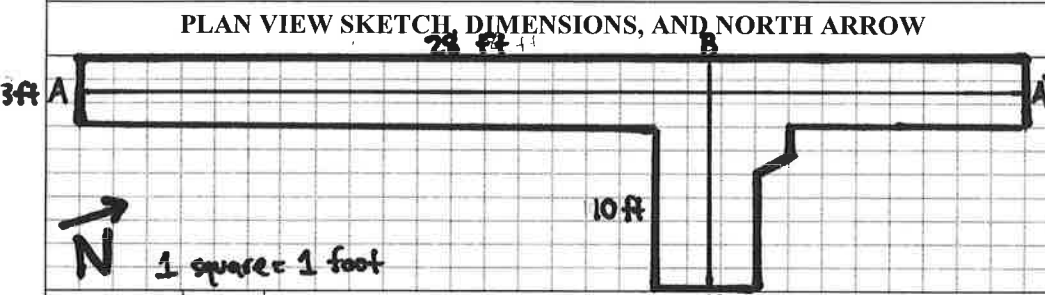
Date: 6/23/15

APPENDIX F

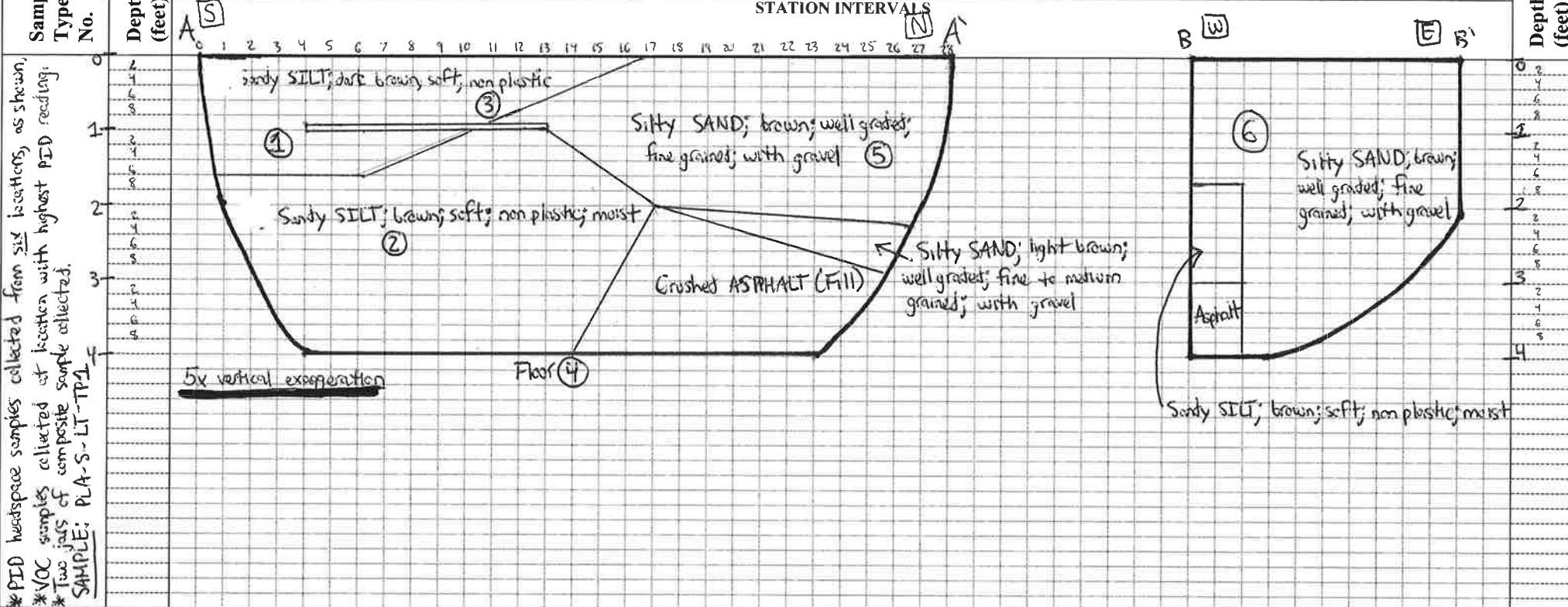
Test Pit Logs

LOG OF TEST PIT

Client: City of La Porte	Project Location: La Porte, IN	Test Pit No.: 1	
Project No.: CHR8417	Project Name:	Elevation: 803.77 ft	Surface Conditions: Grass
Location: east corner of Pine Lake Avenue & Truesdell Avenue (Little Tavern)		Date Started / Completed: 06/30/2015	
Contractor: <u>Ravey Excavating Company</u>		Total Depth (ft): 3.6 - 3.9 feet	Field Logger: Jed Sirk
Equipment Used: Hitachi front-end excavator		X coordinate: ~3048931.6	Y Coordinate: ~2319741.1



CLASSIFICATION AND DESCRIPTION OF MATERIAL

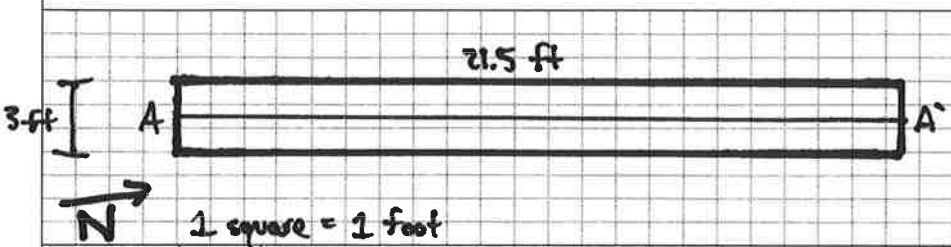


REMARKS: PID Readings: ① 0.8 ③ 1.2 ⑤ 0.9
 ② 0.4 ④ 0.8 ⑥ 1.5 ← VOC sample collected

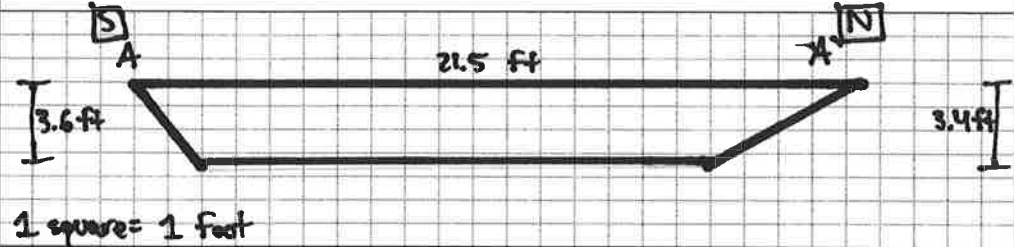
LOG OF TEST PIT

Client: City of La Porte	Project Location: La Porte, IN	Test Pit No.: 2	
Project No.: CHR8417	Project Name:	Elevation: 803.77 ft	Surface Conditions: Grass
Location: east corner of Pine Lake Avenue & Truesdell Avenue (Little Tavern)		Date Started / Completed: 06/30/2015	
Contractor: Pavey Excavating Company		Total Depth (ft): 3.6 - 3.9 feet	Field Logger: Jed Sirk
Equipment Used: Hitachi front-end excavator		X coordinate: ~3048931.6	Y Coordinate: ~2319741.1

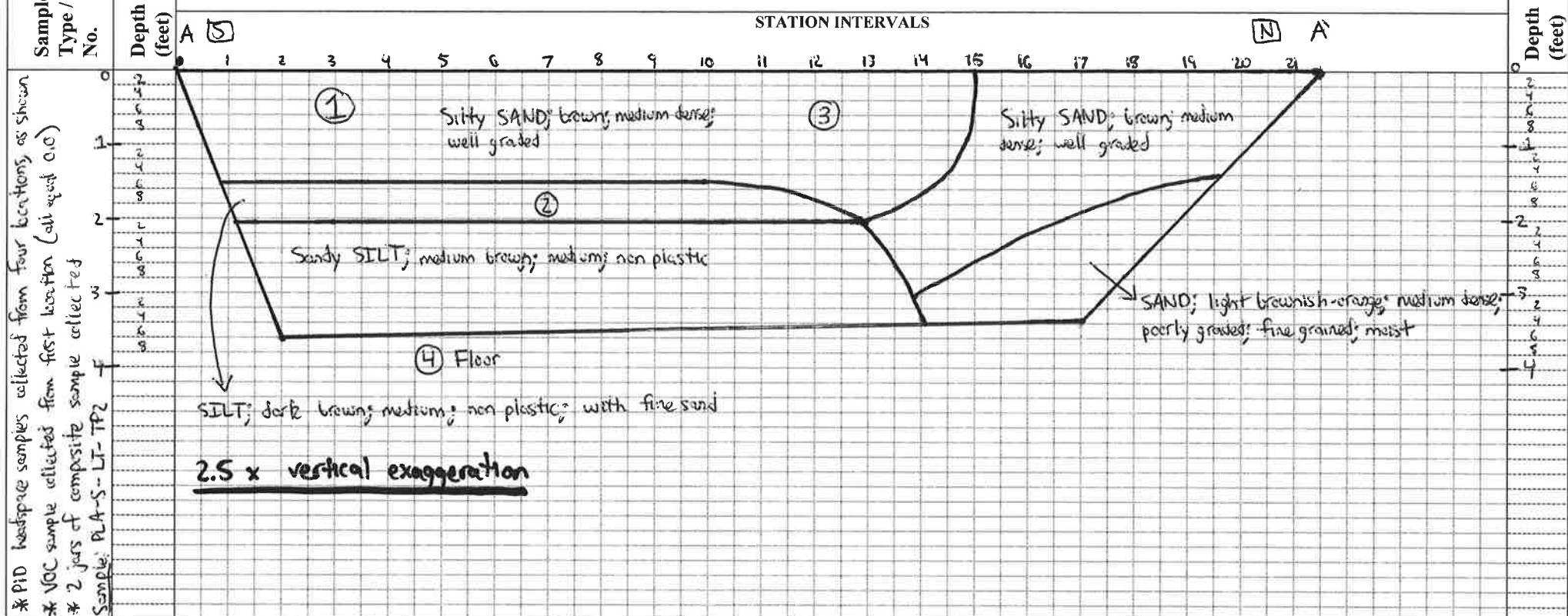
PLAN VIEW SKETCH, DIMENSIONS, AND NORTH ARROW



PROFILE VIEW SKETCH AND DIMENSIONS



CLASSIFICATION AND DESCRIPTION OF MATERIAL

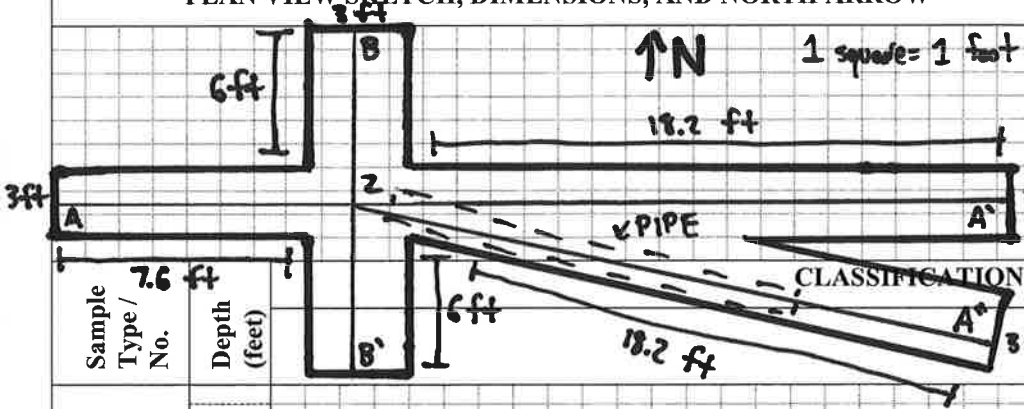


REMARKS: PID Readings = 1 0.0 ← VOC sample collected 3 0.0
2 0.0 4 0.0

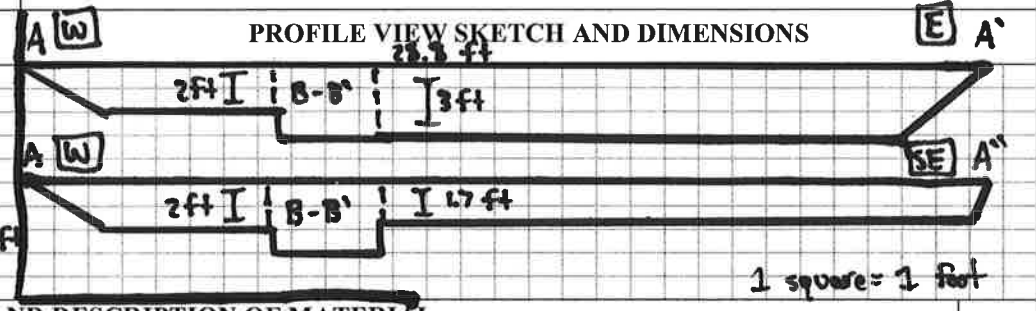
LOG OF TEST PIT

Client: City of La Porte	Project Location: La Porte, IN	Test Pit No.: 3	
Project No.: CHR8417	Project Name:	Elevation: 803.77 ft	Surface Conditions: Grass
Location: east corner of Pine Lake Avenue & Truesdell Avenue (Little Tavern)		Date Started / Completed: 06/30/2015	
Contractor: Pavey Excavating Company		Total Depth (ft): 3.6 3.0 feet	Field Logger: Jed Sirk
Equipment Used: Hitachi front-end excavator		X coordinate: ~3048931.6	Y Coordinate: ~2319741.1

PLAN VIEW SKETCH, DIMENSIONS, AND NORTH ARROW



PROFILE VIEW SKETCH AND DIMENSIONS



CLASSIFICATION AND DESCRIPTION OF MATERIAL

STATION INTERVALS

Sample Type / No.	Depth (feet)	Classification and Description of Material	Depth (feet)
		<p>A-W SAND; brown; loose; well graded; fine to medium grained; with silt + gravel</p> <p>SE-A'' Silty SAND; dark brown; slight odor; poorly graded; fine grained; wet</p> <p>A-W SAND; brown; loose; well graded; fine to medium grained; with silt + gravel</p> <p>SE-A'' SILT; dark brown; with fine sand</p> <p>B-N SAND; brown; loose; well graded; fine to medium grained; with silt + gravel</p> <p>S-B' Silty SAND; orange-brown; well graded; wet</p> <p>S-B' Silty SAND; dark brown; slight odor; poorly graded; fine grained; wet</p>	
		<p>2x vertical exaggeration</p>	

* 2 grab samples collected
 SAMPLES: PLA-S-LT-TP3-001
 PLA-S-LT-TP3-002

REMARKS:

APPENDIX G

Laboratory Analytical Reports

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

June 29, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/20/2015

Group Number: 1570833

SDG: NWP15

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

RB-009 Grab Water

RB-010 Grab Water

RB-011 Grab Water

TB-061915-RB Water

Lancaster Labs (LL)

7938072

7938073

7938074

7938075

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Geosyntec

COPY TO

ELECTRONIC Geosyntec

COPY TO

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: **RB-009 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7938072**
 LL Group # **1570833**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP009 SDG#: NWP15-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-009 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938072
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP009 SDG#: NWP15-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B		ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Chloromethane

GC/MS	Semivolatiles	SW-846 8270D		ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzidine	92-87-5	N.D.	20	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1

Sample Description: RB-009 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938072
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP009 SDG#: NWP15-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
Pesticides/PCBs SW-846 8082			ug/l	ug/l	
10227	PCB-1016	12674-11-2	N.D.	0.082	1
10227	PCB-1221	11104-28-2	N.D.	0.082	1
10227	PCB-1232	11141-16-5	N.D.	0.16	1
10227	PCB-1242	53469-21-9	N.D.	0.082	1
10227	PCB-1248	12672-29-6	N.D.	0.082	1
10227	PCB-1254	11097-69-1	N.D.	0.082	1

Sample Description: RB-009 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938072
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP009 SDG#: NWP15-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/l	ug/l	
10227	PCB-1260	11096-82-5	N.D.	0.12	1
10227	Total PCBs	1336-36-3	N.D.	0.082	1
Metals		SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674	1
07044	Antimony	7440-36-0	N.D.	0.0051	1
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	N.D.	0.00033	1
07047	Beryllium	7440-41-7	0.00090 J	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	0.438	0.0334	1
07051	Chromium	7440-47-3	0.0020 J	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	N.D.	0.0334	1
01757	Magnesium	7439-95-4	0.0681 J	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	N.D.	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0020	1
		SW-846 6020	mg/l	mg/l	
06033	Copper	7440-50-8	0.00095 J	0.00050	1
06035	Lead	7439-92-1	N.D.	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	E151771AA	06/26/2015 15:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151771AA	06/26/2015 15:24	Jason M Long	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15174WAE026	06/25/2015 12:09	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15174WAE026	06/24/2015 09:30	David S Schrum	1
10227	PCBs in Water	SW-846 8082	1	151740006A	06/26/2015 07:00	Monica M Souders	1

Sample Description: RB-009 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938072
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP009 SDG#: NWP15-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11117	PCB Waters Extraction	SW-846 3510C	1	151740006A	06/23/2015 14:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07044	Antimony	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07035	Arsenic	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07046	Barium	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07047	Beryllium	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07049	Cadmium	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
01750	Calcium	SW-846 6010B	1	151731848001	06/25/2015 09:21	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07052	Cobalt	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
01754	Iron	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
01757	Magnesium	SW-846 6010B	1	151731848001	06/25/2015 09:21	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07061	Nickel	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
01762	Potassium	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
01767	Sodium	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07071	Vanadium	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
07072	Zinc	SW-846 6010B	1	151731848001	06/24/2015 22:51	Suzanne M Will	1
06033	Copper	SW-846 6020	1	151756050001A	06/29/2015 10:38	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151756050001A	06/29/2015 10:38	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151756050001B	06/29/2015 10:38	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151756050001A	06/29/2015 10:38	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151756050001A	06/29/2015 10:38	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151735713003	06/24/2015 07:11	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151731848001	06/23/2015 12:38	James L Mertz	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151756050001	06/25/2015 09:57	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151735713003	06/23/2015 14:23	James L Mertz	1

Sample Description: RB-010 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938073
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP010 SDG#: NWP15-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-010 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938073
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP010 SDG#: NWP15-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B		ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Chloromethane

GC/MS	Semivolatiles	SW-846 8270D		ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzidine	92-87-5	N.D.	20	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1

Sample Description: RB-010 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938073
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP010 SDG#: NWP15-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
Pesticides/PCBs		SW-846 8082	ug/l	ug/l	
10227	PCB-1016	12674-11-2	N.D.	0.081	1
10227	PCB-1221	11104-28-2	N.D.	0.081	1
10227	PCB-1232	11141-16-5	N.D.	0.16	1
10227	PCB-1242	53469-21-9	N.D.	0.081	1
10227	PCB-1248	12672-29-6	N.D.	0.081	1
10227	PCB-1254	11097-69-1	N.D.	0.081	1

Sample Description: RB-010 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938073
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP010 SDG#: NWP15-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/l	ug/l	
10227	PCB-1260	11096-82-5	N.D.	0.12	1
10227	Total PCBs	1336-36-3	N.D.	0.081	1
Metals		SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674	1
07044	Antimony	7440-36-0	N.D.	0.0051	1
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	N.D.	0.00033	1
07047	Beryllium	7440-41-7	0.00089 J	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	0.897	0.0334	1
07051	Chromium	7440-47-3	0.0017 J	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	N.D.	0.0334	1
01757	Magnesium	7439-95-4	0.171	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	0.295 J	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0020	1
		SW-846 6020	mg/l	mg/l	
06033	Copper	7440-50-8	N.D.	0.00050	1
06035	Lead	7439-92-1	N.D.	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	E151771AA	06/26/2015 13:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151771AA	06/26/2015 13:03	Jason M Long	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15174WAE026	06/25/2015 12:39	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15174WAE026	06/24/2015 09:30	David S Schrum	1
10227	PCBs in Water	SW-846 8082	1	151740006A	06/26/2015 07:12	Monica M Souders	1

Sample Description: RB-010 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938073
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP010 SDG#: NWP15-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11117	PCB Waters Extraction	SW-846 3510C	1	151740006A	06/23/2015 14:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07044	Antimony	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07035	Arsenic	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07046	Barium	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07047	Beryllium	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07049	Cadmium	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
01750	Calcium	SW-846 6010B	1	151731848001	06/25/2015 09:24	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07052	Cobalt	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
01754	Iron	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
01757	Magnesium	SW-846 6010B	1	151731848001	06/25/2015 09:24	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07061	Nickel	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
01762	Potassium	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
01767	Sodium	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07071	Vanadium	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
07072	Zinc	SW-846 6010B	1	151731848001	06/24/2015 22:54	Suzanne M Will	1
06033	Copper	SW-846 6020	1	151756050001A	06/29/2015 10:41	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151756050001A	06/29/2015 10:41	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151756050001B	06/29/2015 10:41	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151756050001A	06/29/2015 10:41	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151756050001A	06/29/2015 10:41	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151735713003	06/24/2015 07:13	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151731848001	06/23/2015 12:38	James L Mertz	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151756050001	06/25/2015 09:57	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151735713003	06/23/2015 14:23	James L Mertz	1

Sample Description: RB-011 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938074
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP011 SDG#: NWP15-03EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-011 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938074
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP011 SDG#: NWP15-03EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B		ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Chloromethane

GC/MS	Semivolatiles	SW-846 8270D		ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzidine	92-87-5	N.D.	21	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1

Sample Description: RB-011 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938074
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP011 SDG#: NWP15-03EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
Pesticides/PCBs		SW-846 8082	ug/l	ug/l	
10227	PCB-1016	12674-11-2	N.D.	0.081	1
10227	PCB-1221	11104-28-2	N.D.	0.081	1
10227	PCB-1232	11141-16-5	N.D.	0.16	1
10227	PCB-1242	53469-21-9	N.D.	0.081	1
10227	PCB-1248	12672-29-6	N.D.	0.081	1
10227	PCB-1254	11097-69-1	N.D.	0.081	1

Sample Description: RB-011 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938074
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP011 SDG#: NWP15-03EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/l	ug/l	
10227	PCB-1260	11096-82-5	N.D.	0.12	1
10227	Total PCBs	1336-36-3	N.D.	0.081	1
Metals		SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674	1
07044	Antimony	7440-36-0	N.D.	0.0051	1
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	0.00042 J	0.00033	1
07047	Beryllium	7440-41-7	0.00092 J	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	0.313	0.0334	1
07051	Chromium	7440-47-3	0.0035 J	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	0.322	0.0334	1
01757	Magnesium	7439-95-4	0.0536 J	0.0167	1
07058	Manganese	7439-96-5	0.0011 J	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	0.441 J	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0034 J	0.0020	1
		SW-846 6020	mg/l	mg/l	
06033	Copper	7440-50-8	0.00063 J	0.00050	1
06035	Lead	7439-92-1	0.00042 J	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	E151771AA	06/26/2015 14:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151771AA	06/26/2015 14:24	Jason M Long	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15174WAE026	06/25/2015 13:08	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15174WAE026	06/24/2015 09:30	David S Schrum	1
10227	PCBs in Water	SW-846 8082	1	151740006A	06/26/2015 07:23	Monica M Souders	1

Sample Description: RB-011 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938074
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NP011 SDG#: NWP15-03EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
11117	PCB Waters Extraction	SW-846 3510C	1	151740006A	06/23/2015	14:40	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07044	Antimony	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07035	Arsenic	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07046	Barium	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07047	Beryllium	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07049	Cadmium	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
01750	Calcium	SW-846 6010B	1	151731848001	06/25/2015	09:27	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07052	Cobalt	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
01754	Iron	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
01757	Magnesium	SW-846 6010B	1	151731848001	06/25/2015	09:27	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07061	Nickel	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
01762	Potassium	SW-846 6010B	1	151731848001	06/25/2015	09:27	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07071	Vanadium	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
07072	Zinc	SW-846 6010B	1	151731848001	06/24/2015	22:57	Suzanne M Will	1
06033	Copper	SW-846 6020	1	151756050001A	06/29/2015	11:42	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151756050001A	06/29/2015	11:42	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151756050001B	06/29/2015	11:42	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151756050001A	06/29/2015	11:42	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151756050001A	06/29/2015	11:42	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151735713003	06/24/2015	07:15	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151731848001	06/23/2015	12:38	James L Mertz	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151756050001	06/25/2015	09:57	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151735713003	06/23/2015	14:23	James L Mertz	1

Sample Description: TB-061915-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938075
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 15:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NPTRB SDG#: NWP15-04TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-061915-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938075
LL Group # 1570833
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 15:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 14:12

Suite 103

Oakbrook IL 60523

NPTRB SDG#: NWP15-04TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Chloromethane

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	E151771AA	06/26/2015 15:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151771AA	06/26/2015 15:04	Jason M Long	1

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 14:12

Group Number: 1570833

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: E151771AA	Sample number(s): 7938072-7938075							
Acetone	N.D.	6.	ug/l	87	92	55-129	5	30
Benzene	N.D.	0.5	ug/l	93	96	78-120	3	30
Bromobenzene	N.D.	1.	ug/l	111	110	80-120	1	30
Bromochloromethane	N.D.	1.	ug/l	103	110	80-120	6	30
Bromodichloromethane	N.D.	0.5	ug/l	100	106	73-120	6	30
Bromoform	N.D.	0.5	ug/l	114	113	52-123	1	30
Bromomethane	N.D.	0.5	ug/l	91	93	53-130	2	30
2-Butanone	N.D.	3.	ug/l	80	84	54-133	5	30
n-Butylbenzene	N.D.	1.	ug/l	81	79	68-120	3	30
sec-Butylbenzene	N.D.	1.	ug/l	85	85	75-120	0	30
tert-Butylbenzene	N.D.	1.	ug/l	93	94	80-120	1	30
Carbon Disulfide	N.D.	1.	ug/l	86	87	58-126	1	30
Carbon Tetrachloride	N.D.	0.5	ug/l	105	106	74-130	1	30
Chlorobenzene	N.D.	0.5	ug/l	99	101	80-120	2	30
Chloroethane	N.D.	0.5	ug/l	79	82	56-120	4	30
Chloroform	N.D.	0.5	ug/l	100	103	80-120	2	30
Chloromethane	N.D.	0.5	ug/l	62*	64	63-120	3	30
2-Chlorotoluene	N.D.	1.	ug/l	95	99	80-120	4	30
4-Chlorotoluene	N.D.	1.	ug/l	99	104	80-120	5	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	92	96	56-120	4	30
Dibromochloromethane	N.D.	0.5	ug/l	108	109	72-120	0	30
1,2-Dibromoethane	N.D.	0.5	ug/l	105	108	80-120	3	30
Dibromomethane	N.D.	0.5	ug/l	100	111	80-120	10	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	72	74	55-127	2	30
1,1-Dichloroethane	N.D.	0.5	ug/l	88	91	80-120	3	30
1,2-Dichloroethane	N.D.	0.5	ug/l	106	113	72-127	6	30
1,1-Dichloroethene	N.D.	0.5	ug/l	99	100	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	99	103	80-120	5	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	ug/l	90	94	80-120	4	30
1,3-Dichloropropane	N.D.	0.5	ug/l	94	97	80-120	2	30
2,2-Dichloropropane	N.D.	0.5	ug/l	100	103	63-131	2	30
1,1-Dichloropropene	N.D.	1.	ug/l	93	96	80-126	3	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	95	100	80-120	4	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	96	101	76-120	4	30
Ethylbenzene	N.D.	0.5	ug/l	93	95	80-120	2	30
2-Hexanone	N.D.	3.	ug/l	78	80	50-131	3	30
Isopropylbenzene	N.D.	1.	ug/l	95	93	80-120	2	30
p-Isopropyltoluene	N.D.	1.	ug/l	85	86	76-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	103	108	75-120	5	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	80	83	51-124	4	30
Methylene Chloride	N.D.	2.	ug/l	95	98	80-120	3	30
n-Propylbenzene	N.D.	1.	ug/l	87	88	80-120	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1570833

Reported: 06/29/2015 14:12

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	102	103	80-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	108	106	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	90	94	70-120	4	30
Tetrachloroethene	N.D.	0.5	ug/l	113	110	80-120	3	30
Toluene	N.D.	0.5	ug/l	95	96	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	107	104	69-120	3	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	100	103	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	100	102	80-120	2	30
Trichloroethene	N.D.	0.5	ug/l	99	102	80-120	3	30
Trichlorofluoromethane	N.D.	0.5	ug/l	104	105	58-135	2	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	111	110	76-120	1	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	94	95	80-120	1	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	91	93	80-120	2	30
Vinyl Chloride	N.D.	0.5	ug/l	80	79	69-120	1	30
m+p-Xylene	N.D.	0.5	ug/l	97	97	80-120	0	30
o-Xylene	N.D.	0.5	ug/l	99	101	80-120	2	30

Batch number: 15174WAE026

Sample number(s): 7938072-7938074

Acenaphthene	N.D.	0.1	ug/l	82	82	80-112	0	30
Acenaphthylene	N.D.	0.1	ug/l	91	91	78-125	1	30
Anthracene	N.D.	0.1	ug/l	84	84	82-116	0	30
Benzidine	N.D.	20.	ug/l	82	76	21-88	8	30
Benzo(a)anthracene	N.D.	0.1	ug/l	88	88	76-122	0	30
Benzo(a)pyrene	N.D.	0.1	ug/l	85	86	73-120	1	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	87	87	75-123	1	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	91	91	70-126	0	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	87	88	74-119	1	30
Benzoic acid	N.D.	6.	ug/l	51	54	10-97	7	30
Benzyl alcohol	N.D.	10.	ug/l	86	87	54-115	1	30
4-Bromophenyl-phenylether	N.D.	0.5	ug/l	83	85	76-116	2	30
Butylbenzylphthalate	N.D.	2.	ug/l	81	82	68-119	1	30
Di-n-butylphthalate	N.D.	2.	ug/l	81	83	74-114	3	30
Carbazole	N.D.	0.5	ug/l	84	85	79-115	1	30
4-Chloro-3-methylphenol	N.D.	0.5	ug/l	87	84	73-115	3	30
4-Chloroaniline	N.D.	2.	ug/l	80	76	44-114	5	30
bis(2-Chloroethoxy)methane	N.D.	0.5	ug/l	79	79	77-115	0	30
bis(2-Chloroethyl) ether	N.D.	0.5	ug/l	78	78	78-112	1	30
2-Chloronaphthalene	N.D.	0.4	ug/l	81	82	69-112	1	30
2-Chlorophenol	N.D.	0.5	ug/l	81	80	70-111	1	30
4-Chlorophenyl-phenylether	N.D.	0.5	ug/l	86	85	76-113	2	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	ug/l	77	77	56-128	1	30
Chrysene	N.D.	0.1	ug/l	89	90	81-120	1	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	93	93	72-127	0	30
Dibenzofuran	N.D.	0.5	ug/l	84	83	81-110	1	30
1,2-Dichlorobenzene	N.D.	0.5	ug/l	78	79	65-107	2	30
1,3-Dichlorobenzene	N.D.	0.5	ug/l	76	75	58-103	2	30
1,4-Dichlorobenzene	N.D.	0.5	ug/l	76	76	56-106	0	30
3,3'-Dichlorobenzidine	N.D.	2.	ug/l	75	75	39-111	0	30
2,4-Dichlorophenol	N.D.	0.5	ug/l	87	85	74-114	2	30
Diethylphthalate	N.D.	2.	ug/l	81	76	70-118	6	30
2,4-Dimethylphenol	N.D.	0.5	ug/l	80	80	75-110	0	30
Dimethylphthalate	N.D.	2.	ug/l	75	74	43-128	2	30
4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l	96	97	53-134	1	30
2,4-Dinitrophenol	N.D.	10.	ug/l	78	78	31-129	1	30
2,4-Dinitrotoluene	N.D.	1.	ug/l	86	85	77-124	1	30
2,6-Dinitrotoluene	N.D.	0.5	ug/l	88	86	80-119	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 14:12

Group Number: 1570833

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
bis(2-Ethylhexyl) phthalate	N.D.	2.	ug/l	89	92	72-122	3	30
Fluoranthene	N.D.	0.1	ug/l	87	89	76-117	3	30
Fluorene	N.D.	0.1	ug/l	85	84	80-117	2	30
Hexachlorobenzene	N.D.	0.1	ug/l	85	84	73-118	1	30
Hexachlorobutadiene	N.D.	0.5	ug/l	76	77	42-110	1	30
Hexachlorocyclopentadiene	N.D.	5.	ug/l	73	75	10-119	3	30
Hexachloroethane	N.D.	1.	ug/l	71	70	43-108	1	30
Indeno(1,2,3-cd) pyrene	N.D.	0.1	ug/l	88	89	70-121	1	30
Isophorone	N.D.	0.5	ug/l	88	89	81-124	0	30
2-Methylnaphthalene	N.D.	0.1	ug/l	80	79	69-103	1	30
2-Methylphenol	N.D.	0.5	ug/l	79	78	66-112	1	30
4-Methylphenol	N.D.	0.5	ug/l	79	76	56-109	3	30
Naphthalene	N.D.	0.1	ug/l	82	80	75-108	2	30
2-Nitroaniline	N.D.	0.5	ug/l	81	81	71-121	1	30
3-Nitroaniline	N.D.	0.5	ug/l	75	71	58-111	5	30
4-Nitroaniline	N.D.	0.5	ug/l	76	74	66-110	2	30
Nitrobenzene	N.D.	0.5	ug/l	84	83	77-119	1	30
2-Nitrophenol	N.D.	0.5	ug/l	87	87	71-118	1	30
4-Nitrophenol	N.D.	10.	ug/l	50	49	20-89	1	30
N-Nitroso-di-n-propylamine	N.D.	0.5	ug/l	77	77	71-117	0	30
N-Nitrosodiphenylamine	N.D.	0.5	ug/l	146*	145*	80-115	0	30
Di-n-octylphthalate	N.D.	2.	ug/l	88	90	72-127	2	30
Pentachlorophenol	N.D.	1.	ug/l	90	91	50-121	1	30
Phenanthrene	N.D.	0.1	ug/l	81	83	81-114	2	30
Phenol	N.D.	0.5	ug/l	49	47	25-80	3	30
Pyrene	N.D.	0.1	ug/l	79	79	76-111	0	30
1,2,4-Trichlorobenzene	N.D.	0.5	ug/l	85	85	64-107	0	30
2,4,5-Trichlorophenol	N.D.	0.5	ug/l	86	85	76-116	2	30
2,4,6-Trichlorophenol	N.D.	0.5	ug/l	91	90	75-117	1	30

Batch number: 151740006A	Sample number(s): 7938072-7938074
PCB-1016	N.D. 0.080 ug/l 108 60-117
PCB-1221	N.D. 0.080 ug/l
PCB-1232	N.D. 0.16 ug/l
PCB-1242	N.D. 0.080 ug/l
PCB-1248	N.D. 0.080 ug/l
PCB-1254	N.D. 0.080 ug/l
PCB-1260	N.D. 0.12 ug/l 114 64-134
Total PCBs	N.D. 0.080 ug/l

Batch number: 151731848001	Sample number(s): 7938072-7938074
Aluminum	N.D. 0.0674 mg/l 108 80-120
Antimony	N.D. 0.0051 mg/l 105 80-120
Arsenic	N.D. 0.0072 mg/l 104 80-120
Barium	N.D. 0.00033 mg/l 103 80-120
Beryllium	0.00096 J 0.00067 mg/l 102 80-120
Cadmium	N.D. 0.00033 mg/l 101 80-120
Calcium	N.D. 0.0334 mg/l 107 80-120
Chromium	0.0019 J 0.0013 mg/l 105 80-120
Cobalt	N.D. 0.0010 mg/l 102 80-120
Iron	N.D. 0.0334 mg/l 105 80-120
Magnesium	N.D. 0.0167 mg/l 103 80-120
Manganese	N.D. 0.00083 mg/l 104 80-120
Nickel	N.D. 0.0016 mg/l 104 80-120
Potassium	N.D. 0.133 mg/l 106 80-120
Sodium	N.D. 0.167 mg/l 107 80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1570833

Reported: 06/29/2015 14:12

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
Vanadium	N.D.	0.0019	mg/l	109		80-120			
Zinc	N.D.	0.0020	mg/l	100		80-120			
Batch number: 151735713003 Sample number(s): 7938072-7938074									
Mercury	N.D.	0.00005	mg/l	108		80-120			
Batch number: 151756050001A Sample number(s): 7938072-7938074									
Copper	0.00080 J	0.00050	mg/l	101		80-120			
Lead	0.000083 J	0.00008	mg/l	98		80-120			
Silver	N.D.	0.00013	mg/l	98		80-120			
Thallium	N.D.	0.00015	mg/l	93		80-120			
Batch number: 151756050001B Sample number(s): 7938072-7938074									
Selenium	N.D.	0.00050	mg/l	100		80-120			

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: E151771AA Sample number(s): 7938072-7938075 UNSPK: P938077									
Acetone	97	94	35-144	3	30				
Benzene	108	105	72-134	2	30				
Bromobenzene	123*	119*	82-115	3	30				
Bromochloromethane	119	121	76-134	1	30				
Bromodichloromethane	112	112	73-125	0	30				
Bromoform	117	120*	48-118	3	30				
Bromomethane	119	122	47-129	3	30				
2-Butanone	89	83	44-135	7	30				
n-Butylbenzene	89	88	74-134	1	30				
sec-Butylbenzene	95	94	74-137	1	30				
tert-Butylbenzene	101	103	81-121	2	30				
Carbon Disulfide	99	98	53-149	1	30				
Carbon Tetrachloride	121	120	75-148	1	30				
Chlorobenzene	110	111	87-124	1	30				
Chloroethane	103	104	55-130	1	30				
Chloroform	115	115	81-134	0	30				
Chloromethane	98	96	61-125	2	30				
2-Chlorotoluene	107	108	82-118	0	30				
4-Chlorotoluene	111	111	84-122	0	30				
1,2-Dibromo-3-chloropropane	96	92	50-123	4	30				
Dibromochloromethane	116	117*	74-116	0	30				
1,2-Dibromoethane	116	114	77-116	2	30				
Dibromomethane	116	113	83-119	2	30				
Dichlorodifluoromethane	149	144	58-156	3	30				
1,1-Dichloroethane	101	99	84-129	2	30				
1,2-Dichloroethane	119	118	63-142	1	30				
1,1-Dichloroethane	118	112	79-137	5	30				
cis-1,2-Dichloroethene	110	112	80-141	2	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 14:12

Group Number: 1570833

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
trans-1,2-Dichloroethene	117	115	86-131	2	30				
1,2-Dichloropropane	100	99	83-124	1	30				
1,3-Dichloropropane	101	101	81-120	0	30				
2,2-Dichloropropane	115	113	69-135	2	30				
1,1-Dichloropropene	110	105	86-137	4	30				
cis-1,3-Dichloropropene	106	105	70-116	0	30				
trans-1,3-Dichloropropene	106	103	74-119	2	30				
Ethylbenzene	106	106	71-134	0	30				
2-Hexanone	82	79	38-131	4	30				
Isopropylbenzene	105	108	75-128	2	30				
p-Isopropyltoluene	96	97	76-123	0	30				
Methyl Tertiary Butyl Ether	114	114	72-126	0	30				
4-Methyl-2-pentanone	87	84	45-128	3	30				
Methylene Chloride	110	109	78-133	0	30				
n-Propylbenzene	98	97	74-134	1	30				
Styrene	112	114	78-125	2	30				
1,1,1,2-Tetrachloroethane	118	118	80-123	0	30				
1,1,2,2-Tetrachloroethane	98	93	72-128	5	30				
Tetrachloroethene	127	131*	80-128	3	30				
Toluene	106	108	80-125	2	30				
1,2,3-Trichlorobenzene	108	115	62-133	6	30				
1,1,1-Trichloroethane	117	113	69-140	3	30				
1,1,2-Trichloroethane	106	108	71-141	1	30				
Trichloroethene	115	113	88-133	2	30				
Trichlorofluoromethane	135	137	63-163	2	30				
1,2,3-Trichloropropane	121*	120*	76-118	1	30				
1,2,4-Trimethylbenzene	104	102	72-130	2	30				
1,3,5-Trimethylbenzene	103	102	65-132	0	30				
Vinyl Chloride	114	112	66-133	2	30				
m+p-Xylene	108	109	79-125	0	30				
o-Xylene	110	110	79-125	0	30				

Batch number: 151740006A Sample number(s): 7938072-7938074 UNSPK: P933008
 PCB-1016 85 43* 58-119 67* 30
 PCB-1260 91 60 44-131 41* 30

Batch number: 151731848001	Sample number(s): 7938072-7938074	UNSPK: P938070	BKG: P938070						
Aluminum	195*	195*	75-125	0	20	1.76	1.72	2	20
Antimony	112	111	75-125	1	20	N.D.	N.D.	0 (1)	20
Arsenic	103	100	75-125	3	20	0.0164 J	0.0155 J	6 (1)	20
Barium	115	104	75-125	10	20	0.0358	0.0356	1	20
Beryllium	109	101	75-125	7	20	0.0010 J	0.00093 J	7 (1)	20
Cadmium	106	105	75-125	1	20	N.D.	N.D.	0 (1)	20
Calcium	-69 (2)	-161 (2)	75-125	4	20	104	105	2	20
Chromium	112	105	75-125	6	20	0.0081 J	0.0078 J	4 (1)	20
Cobalt	107	106	75-125	1	20	0.0057	0.0052	9 (1)	20
Iron	19 (2)	-7 (2)	75-125	2	20	16.7	17.2	3	20
Magnesium	66*	57*	75-125	3	20	5.33	4.63	14	20
Manganese	97	79	75-125	7	20	0.897	0.897	0	20
Nickel	107	106	75-125	1	20	0.0789	0.0766	3	20
Potassium	109	106	75-125	2	20	3.09	2.73	13	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 14:12

Group Number: 1570833

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Sodium	103	95	75-125	3	20	12.6	12.7	1	20
Vanadium	122	112	75-125	8	20	0.0095	0.0104	9 (1)	20
Zinc	100	99	75-125	1	20	0.247	0.241	2	20
Batch number: 151735713003 Sample number(s): 7938072-7938074 UNSPK: P932662 BKG: P932662									
Mercury	105	102	80-120	3	20	N.D.	N.D.	0 (1)	20
Batch number: 151756050001A Sample number(s): 7938072-7938074 UNSPK: P936860 BKG: P936860									
Copper	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Lead	106	102	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	85	84	75-125	1	20	N.D.	N.D.	0 (1)	20
Thallium	103	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 151756050001B Sample number(s): 7938072-7938074 UNSPK: P936860 BKG: P936860									
Selenium	48*	54*	75-125	11	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: E151771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7938072	104	100	94	91
7938073	104	103	93	91
7938074	103	99	95	92
7938075	103	98	95	93
Blank	103	101	94	92
LCS	103	96	94	93
LCSD	106	101	94	92
MS	106	101	93	91
MSD	107	101	94	93
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TCL SW846 8270D Water
Batch number: 15174WAE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7938072	40	60	86	82	81	87
7938073	41	62	90	86	85	90
7938074	42	63	90	85	83	89
Blank	41	63	92	87	85	91
LCS	47	67	97	89	88	87
LCSD	46	66	97	87	87	87
Limits:	10-82	10-107	23-145	60-123	61-112	35-144

Analysis Name: PCBs in Water
Batch number: 151740006A

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 14:12

Group Number: 1570833

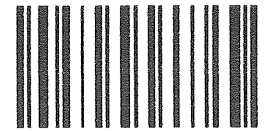
Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
7938072	105	25*
7938073	94	69
7938074	93	53
Blank	76	72
LCS	108	106
MS	80	78
MSD	39*	75
Limits:	49-141	36-153

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1570833 Sample # 1938072-75
Instructions on reverse side correspond with circled numbers.

364937

1 Client Information			4 Matrix			5 Analysis Requested					For Lab Use Only																																				
Client: <u>Geosyntec Consultants</u>		Acct. #:	<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Equipment & Trip Blanks</u>	Total # of Containers	Preservation Codes					FSC: _____	SCR#: _____																																				
Project Name/#: <u>CHR8417</u>		PWSID #:			<table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																																									Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other	
Project Manager: <u>DAVE Kulezycki</u>		P.O. #:	6 Remarks																																												
Sampler: <u>VARIOUS</u>		Quote #:																																													
Name of state where samples were collected: <u>IN</u>			3																																												
2 Sample Identification		Collected		Grab	Composite	Soil	Water	Other	Total # of Containers	VOCs (80908)	SVOCs (82707)	TAL Metals 1 H ₃	PUBs																																		
		Date	Time																																												
<u>RB-009</u>		<u>6/19/15</u>	<u>14:30</u>	<u>X</u>				<u>X</u>	<u>2</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																																		
<u>RB-010</u>		<u>6/19/15</u>	<u>14:40</u>	<u>X</u>				<u>X</u>	<u>2</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																																		
<u>RB-011</u>		<u>6/19/15</u>	<u>14:50</u>	<u>X</u>				<u>X</u>	<u>2</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																																		
<u>TB-061915-RB</u>		<u>6/19/15</u>	<u>15:50</u>	<u>X</u>				<u>X</u>	<u>2</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																																		
<u>SS 19 Jun 2015</u>																																															
7 Turnaround Time (TAT) Requested (please circle)			Relinquished by		Date	Time	Received by		Date	Time	9																																				
Standard <u>Rush</u> <u>5-day TAT</u>			<u>[Signature]</u>		<u>19 Jun 15</u>	<u>16:30</u>	<u>[Signature]</u>		<u>6/19/15</u>	<u>17:15</u>																																					
(Rush TAT is subject to laboratory approval and surcharge.)			<u>[Signature]</u>		<u>6/19/15</u>	<u>17:20</u>	<u>[Signature]</u>																																								
Date results are needed: _____			<u>[Signature]</u>				<u>[Signature]</u>																																								
E-mail address: <u>dkulezycki@geosyntec.com</u>			<u>[Signature]</u>				<u>[Signature]</u>																																								
8 Data Package Options (circle if required)			Relinquished by		Date	Time	Received by		Date	Time																																					
Type I (Validation/non-CLP) <u>Type VI (Raw Data Only)</u>			<u>[Signature]</u>				<u>[Signature]</u>		<u>6/20/15</u>	<u>9:35</u>																																					
Type III (Reduced non-CLP) TX TRRP-13																																															
<u>Type IV (CLP SOW)</u> MA MCP CT RCP																																															
EDD Required? <u>Yes</u> No					Relinquished by Commercial Carrier:																																										
If yes, format: _____					UPS _____ FedEx _____ Other _____																																										
Site-Specific QC (MS/MSD/Dup)? Yes <u>No</u>					Temperature upon receipt <u>1.2</u> °C																																										
(If yes, indicate QC sample and submit triplicate sample volume.)																																															

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

June 29, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/20/2015

Group Number: 1570835

SDG: NWP12

PO Number: 201506111740

State of Sample Origin: IN

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
VP-CS-SWMU4-C2 Grab Concrete	7938085
VP-CS-SWMU4-C1 Grab Concrete	7938086
VP-CS-SWMU4-C3 Grab Concrete	7938087
VP-CS-SWMU5-C1 Grab Concrete	7938088
VP-CS-SWMU5-C2 Grab Concrete	7938089
PLA-CS-George Building-B6 Grab Concrete	7938090
PLA-CS-George Building-C3 Grab Concrete	7938091
PLA-CS-George Building-B4 Grab Concrete	7938092
PLA-CS-George Building-C8 Grab Concrete	7938093
PLA-CS-George Building-B5 Grab Concrete	7938094
PLA-CS-George Building-D7 Grab Concrete	7938095
PLA-CS-George Building-C7 Grab Concrete	7938096
PLA-CS-George Building-B7 Grab Concrete	7938097
PLA-CS-George Building-C6 Grab Concrete	7938098
TB-061915-C1 Water	7938099

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Geosyntec
COPY TO
ELECTRONIC Geosyntec
COPY TO

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: VP-CS-SWMU4-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938085
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C2 SDG#: NWP12-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	18 J	7	0.99
10237	Benzene	71-43-2	N.D.	0.5	0.99
10237	Bromobenzene	108-86-1	N.D.	1	0.99
10237	Bromochloromethane	74-97-5	N.D.	1	0.99
10237	Bromodichloromethane	75-27-4	N.D.	1	0.99
10237	Bromoform	75-25-2	N.D.	1	0.99
10237	Bromomethane	74-83-9	N.D.	2	0.99
10237	2-Butanone	78-93-3	N.D.	4	0.99
10237	n-Butylbenzene	104-51-8	N.D.	1	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.99
10237	Carbon Disulfide	75-15-0	N.D.	1	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.99
10237	Chlorobenzene	108-90-7	N.D.	1	0.99
10237	Chloroethane	75-00-3	N.D.	2	0.99
10237	Chloroform	67-66-3	N.D.	1	0.99
10237	Chloromethane	74-87-3	N.D.	2	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.99
10237	Dibromochloromethane	124-48-1	N.D.	1	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.99
10237	Dibromomethane	74-95-3	N.D.	1	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.99
10237	Ethylbenzene	100-41-4	N.D.	1	0.99
10237	2-Hexanone	591-78-6	N.D.	3	0.99
10237	Isopropylbenzene	98-82-8	N.D.	1	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.99
10237	Methylene Chloride	75-09-2	N.D.	2	0.99
10237	n-Propylbenzene	103-65-1	N.D.	1	0.99
10237	Styrene	100-42-5	N.D.	1	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.99
10237	Tetrachloroethene	127-18-4	N.D.	1	0.99
10237	Toluene	108-88-3	N.D.	1	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.99

Sample Description: VP-CS-SWMU4-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938085
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C2 SDG#: NWP12-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.99
10237	Trichloroethene	79-01-6	N.D.	1	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.99
10237	Vinyl Chloride	75-01-4	N.D.	1	0.99
10237	m+p-Xylene	179601-23-1	N.D.	1	0.99
10237	o-Xylene	95-47-6	N.D.	1	0.99

Sample contains concrete which is known to react with and decrease the recoveries for the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	75	3	1
10726	Acenaphthylene	208-96-8	32	3	1
10726	Anthracene	120-12-7	91	3	1
10726	Benzidine	92-87-5	N.D.	730	1
10726	Benzo(a)anthracene	56-55-3	710	3	1
10726	Benzo(a)pyrene	50-32-8	310	3	1
10726	Benzo(b)fluoranthene	205-99-2	1,100	3	1
10726	Benzo(g,h,i)perylene	191-24-2	400	3	1
10726	Benzo(k)fluoranthene	207-08-9	380	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	70	1
10726	Di-n-butylphthalate	84-74-2	N.D.	70	1
10726	Carbazole	86-74-8	130	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	740	3	1
10726	Dibenz(a,h)anthracene	53-70-3	100	3	1
10726	Dibenzofuran	132-64-9	210	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	70	1

Sample Description: VP-CS-SWMU4-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938085
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C2 SDG#: NWP12-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	70	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	70	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	70	1
10726	Fluoranthene	206-44-0	3,300	3	1
10726	Fluorene	86-73-7	19	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	370	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	130	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	540	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	70	1
10726	4-Nitroaniline	100-01-6	N.D.	70	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	70	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	2,700	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	2,400	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: VP-CS-SWMU4-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938085
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C2 SDG#: NWP12-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	3.8	1
10736	PCB-1221	11104-28-2	N.D.	4.8	1
10736	PCB-1232	11141-16-5	N.D.	8.4	1
10736	PCB-1242	53469-21-9	N.D.	3.5	1
10736	PCB-1248	12672-29-6	N.D.	3.5	1
10736	PCB-1254	11097-69-1	N.D.	3.5	1
10736	PCB-1260	11096-82-5	N.D.	5.1	1
10736	Total PCBs	1336-36-3	N.D.	3.5	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,340	4.63	1
06944	Antimony	7440-36-0	0.809 J	0.337	1
06935	Arsenic	7440-38-2	2.64	0.653	1
06946	Barium	7440-39-3	60.7	0.0337	1
06947	Beryllium	7440-41-7	1.04	0.0684	1
06949	Cadmium	7440-43-9	0.0704 J	0.0337	1
01650	Calcium	7440-70-2	171,000	19.3	5
06951	Chromium	7440-47-3	9.21	0.112	1
06952	Cobalt	7440-48-4	1.70	0.0980	1
06953	Copper	7440-50-8	4.04	0.337	1
01654	Iron	7439-89-6	6,940	3.41	1
06955	Lead	7439-92-1	4.64	0.510	1
01657	Magnesium	7439-95-4	42,500	1.70	1
06958	Manganese	7439-96-5	845	0.0847	1
06961	Nickel	7440-02-0	4.85	0.153	1
01662	Potassium	7440-09-7	894	13.3	1
06936	Selenium	7782-49-2	0.982 J	0.449	1
06966	Silver	7440-22-4	N.D.	0.970	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	520	17.0	1
06925	Thallium	7440-28-0	N.D.	0.817	1
06971	Vanadium	7440-62-2	7.74	0.0929	1
06972	Zinc	7440-66-6	22.4	0.265	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0103	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	4.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: VP-CS-SWMU4-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938085
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:30

Geosyntec

1420 Kensington Road

Submitted: 06/20/2015 09:35

Suite 103

Reported: 06/29/2015 09:12

Oakbrook IL 60523

S4-C2 SDG#: NWP12-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 06:56	Sara E Johnson	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:18	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:18	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:07	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 16:43	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740024A	06/27/2015 14:46	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740024A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:35	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:35	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:27	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:17	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: VP-CS-SWMU4-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938086
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C1 SDG#: NWP12-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	24	7	0.97
10237	Benzene	71-43-2	N.D.	0.5	0.97
10237	Bromobenzene	108-86-1	N.D.	1	0.97
10237	Bromochloromethane	74-97-5	N.D.	1	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	0.97
10237	Bromoform	75-25-2	N.D.	1	0.97
10237	Bromomethane	74-83-9	N.D.	2	0.97
10237	2-Butanone	78-93-3	N.D.	4	0.97
10237	n-Butylbenzene	104-51-8	N.D.	1	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.97
10237	Carbon Disulfide	75-15-0	N.D.	1	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.97
10237	Chlorobenzene	108-90-7	N.D.	1	0.97
10237	Chloroethane	75-00-3	N.D.	2	0.97
10237	Chloroform	67-66-3	N.D.	1	0.97
10237	Chloromethane	74-87-3	N.D.	2	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.97
10237	Dibromomethane	74-95-3	N.D.	1	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.97
10237	Ethylbenzene	100-41-4	N.D.	1	0.97
10237	2-Hexanone	591-78-6	N.D.	3	0.97
10237	Isopropylbenzene	98-82-8	N.D.	1	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	0.97
10237	n-Propylbenzene	103-65-1	N.D.	1	0.97
10237	Styrene	100-42-5	N.D.	1	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	0.97
10237	Toluene	108-88-3	N.D.	1	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.97

Sample Description: VP-CS-SWMU4-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938086
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C1 SDG#: NWP12-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.97
10237	Trichloroethene	79-01-6	N.D.	1	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.97
10237	Vinyl Chloride	75-01-4	N.D.	1	0.97
10237	m+p-Xylene	179601-23-1	N.D.	1	0.97
10237	o-Xylene	95-47-6	N.D.	1	0.97

Sample contains concrete which is known to react with and decrease the recoveries of the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	96	3	1
10726	Acenaphthylene	208-96-8	8	3	1
10726	Anthracene	120-12-7	36	3	1
10726	Benzidine	92-87-5	N.D.	730	1
10726	Benzo(a)anthracene	56-55-3	570	3	1
10726	Benzo(a)pyrene	50-32-8	59	3	1
10726	Benzo(b)fluoranthene	205-99-2	1,100	3	1
10726	Benzo(g,h,i)perylene	191-24-2	420	3	1
10726	Benzo(k)fluoranthene	207-08-9	430	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	70	1
10726	Di-n-butylphthalate	84-74-2	N.D.	70	1
10726	Carbazole	86-74-8	30	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	1,200	3	1
10726	Dibenz(a,h)anthracene	53-70-3	110	3	1
10726	Dibenzofuran	132-64-9	250	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	70	1

Sample Description: VP-CS-SWMU4-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938086
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C1 SDG#: NWP12-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	70	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	70	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	70	1
10726	Fluoranthene	206-44-0	3,500	3	1
10726	Fluorene	86-73-7	19	3	1
10726	Hexachlorobenzene	118-74-1	4 J	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	420	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	140	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	310	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	70	1
10726	4-Nitroaniline	100-01-6	N.D.	70	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	70	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	1,100	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	3,000	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: VP-CS-SWMU4-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938086
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C1 SDG#: NWP12-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	3.7	1
10736	PCB-1221	11104-28-2	N.D.	4.8	1
10736	PCB-1232	11141-16-5	N.D.	8.3	1
10736	PCB-1242	53469-21-9	N.D.	3.4	1
10736	PCB-1248	12672-29-6	N.D.	3.4	1
10736	PCB-1254	11097-69-1	6.5 J	3.4	1
10736	PCB-1260	11096-82-5	11 J	5.1	1
10736	Total PCBs	1336-36-3	18	3.4	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,350	4.70	1
06944	Antimony	7440-36-0	0.388 J	0.342	1
06935	Arsenic	7440-38-2	3.03	0.663	1
06946	Barium	7440-39-3	64.5	0.0342	1
06947	Beryllium	7440-41-7	1.05	0.0694	1
06949	Cadmium	7440-43-9	0.0829 J	0.0342	1
01650	Calcium	7440-70-2	162,000	19.6	5
06951	Chromium	7440-47-3	9.31	0.114	1
06952	Cobalt	7440-48-4	1.60	0.0994	1
06953	Copper	7440-50-8	5.18	0.342	1
01654	Iron	7439-89-6	7,440	3.46	1
06955	Lead	7439-92-1	5.21	0.518	1
01657	Magnesium	7439-95-4	37,800	1.73	1
06958	Manganese	7439-96-5	835	0.0860	1
06961	Nickel	7440-02-0	4.86	0.155	1
01662	Potassium	7440-09-7	806	13.5	1
06936	Selenium	7782-49-2	1.52 J	0.456	1
06966	Silver	7440-22-4	N.D.	0.984	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	424	17.3	1
06925	Thallium	7440-28-0	N.D.	0.829	1
06971	Vanadium	7440-62-2	7.46	0.0942	1
06972	Zinc	7440-66-6	25.7	0.269	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.010	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	4.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: VP-CS-SWMU4-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938086
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C1 SDG#: NWP12-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151761AA	06/25/2015 18:43	Angela D Sneeringer	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:18	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:18	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:11	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 17:06	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740024A	06/27/2015 15:21	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740024A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:38	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:38	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:31	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:23	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: VP-CS-SWMU4-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938087
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C3 SDG#: NWP12-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	13 J	7	0.99
10237	Benzene	71-43-2	N.D.	0.5	0.99
10237	Bromobenzene	108-86-1	N.D.	1	0.99
10237	Bromochloromethane	74-97-5	N.D.	1	0.99
10237	Bromodichloromethane	75-27-4	N.D.	1	0.99
10237	Bromoform	75-25-2	N.D.	1	0.99
10237	Bromomethane	74-83-9	N.D.	2	0.99
10237	2-Butanone	78-93-3	N.D.	4	0.99
10237	n-Butylbenzene	104-51-8	N.D.	1	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.99
10237	Carbon Disulfide	75-15-0	N.D.	1	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.99
10237	Chlorobenzene	108-90-7	N.D.	1	0.99
10237	Chloroethane	75-00-3	N.D.	2	0.99
10237	Chloroform	67-66-3	N.D.	1	0.99
10237	Chloromethane	74-87-3	N.D.	2	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.99
10237	Dibromochloromethane	124-48-1	N.D.	1	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.99
10237	Dibromomethane	74-95-3	N.D.	1	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.99
10237	Ethylbenzene	100-41-4	N.D.	1	0.99
10237	2-Hexanone	591-78-6	N.D.	3	0.99
10237	Isopropylbenzene	98-82-8	N.D.	1	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.99
10237	Methylene Chloride	75-09-2	N.D.	2	0.99
10237	n-Propylbenzene	103-65-1	N.D.	1	0.99
10237	Styrene	100-42-5	N.D.	1	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.99
10237	Tetrachloroethene	127-18-4	N.D.	1	0.99
10237	Toluene	108-88-3	N.D.	1	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.99

Sample Description: VP-CS-SWMU4-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938087
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C3 SDG#: NWP12-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.99
10237	Trichloroethene	79-01-6	N.D.	1	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.99
10237	Vinyl Chloride	75-01-4	N.D.	1	0.99
10237	m+p-Xylene	179601-23-1	N.D.	1	0.99
10237	o-Xylene	95-47-6	N.D.	1	0.99

Sample contains concrete which is known to react with and decrease the recoveries of the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	63	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	33	3	1
10726	Benzidine	92-87-5	N.D.	710	1
10726	Benzo(a)anthracene	56-55-3	50	3	1
10726	Benzo(a)pyrene	50-32-8	25	3	1
10726	Benzo(b)fluoranthene	205-99-2	180	3	1
10726	Benzo(g,h,i)perylene	191-24-2	92	3	1
10726	Benzo(k)fluoranthene	207-08-9	60	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	68	1
10726	Di-n-butylphthalate	84-74-2	N.D.	68	1
10726	Carbazole	86-74-8	46	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	150	3	1
10726	Dibenz(a,h)anthracene	53-70-3	15	3	1
10726	Dibenzofuran	132-64-9	120	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	68	1

Sample Description: VP-CS-SWMU4-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938087
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C3 SDG#: NWP12-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	68	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	68	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	68	1
10726	Fluoranthene	206-44-0	310	3	1
10726	Fluorene	86-73-7	4 J	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	84	3	1
10726	Isophorone	78-59-1	32 J	17	1
10726	2-Methylnaphthalene	91-57-6	38	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	180	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	68	1
10726	4-Nitroaniline	100-01-6	N.D.	68	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	68	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	620	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	220	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: VP-CS-SWMU4-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938087
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C3 SDG#: NWP12-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	3.7	1
10736	PCB-1221	11104-28-2	N.D.	4.7	1
10736	PCB-1232	11141-16-5	N.D.	8.1	1
10736	PCB-1242	53469-21-9	N.D.	3.3	1
10736	PCB-1248	12672-29-6	N.D.	3.3	1
10736	PCB-1254	11097-69-1	N.D.	3.3	1
10736	PCB-1260	11096-82-5	N.D.	5.0	1
10736	Total PCBs	1336-36-3	N.D.	3.3	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,970	4.56	1
06944	Antimony	7440-36-0	0.497 J	0.331	1
06935	Arsenic	7440-38-2	3.82	0.643	1
06946	Barium	7440-39-3	62.6	0.0331	1
06947	Beryllium	7440-41-7	1.07	0.0673	1
06949	Cadmium	7440-43-9	0.0703 J	0.0331	1
01650	Calcium	7440-70-2	160,000	19.0	5
06951	Chromium	7440-47-3	9.69	0.110	1
06952	Cobalt	7440-48-4	1.32	0.0964	1
06953	Copper	7440-50-8	3.70	0.331	1
01654	Iron	7439-89-6	6,860	3.36	1
06955	Lead	7439-92-1	4.06	0.502	1
01657	Magnesium	7439-95-4	34,500	1.68	1
06958	Manganese	7439-96-5	891	0.0834	1
06961	Nickel	7440-02-0	4.30	0.151	1
01662	Potassium	7440-09-7	1,120	13.1	1
06936	Selenium	7782-49-2	1.07 J	0.442	1
06966	Silver	7440-22-4	N.D.	0.954	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	641	16.8	1
06925	Thallium	7440-28-0	N.D.	0.804	1
06971	Vanadium	7440-62-2	7.67	0.0914	1
06972	Zinc	7440-66-6	22.3	0.261	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0097	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	2.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: VP-CS-SWMU4-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938087
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S4-C3 SDG#: NWP12-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151761AA	06/25/2015 19:06	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:18	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:18	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:16	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 17:29	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740024A	06/27/2015 15:33	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740024A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:41	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:41	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:41	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:26	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: VP-CS-SWMU5-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938088
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C1 SDG#: NWP12-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.99
10237	Benzene	71-43-2	N.D.	0.5	0.99
10237	Bromobenzene	108-86-1	N.D.	1	0.99
10237	Bromochloromethane	74-97-5	N.D.	1	0.99
10237	Bromodichloromethane	75-27-4	N.D.	1	0.99
10237	Bromoform	75-25-2	N.D.	1	0.99
10237	Bromomethane	74-83-9	N.D.	2	0.99
10237	2-Butanone	78-93-3	N.D.	4	0.99
10237	n-Butylbenzene	104-51-8	N.D.	1	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.99
10237	Carbon Disulfide	75-15-0	N.D.	1	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.99
10237	Chlorobenzene	108-90-7	N.D.	1	0.99
10237	Chloroethane	75-00-3	N.D.	2	0.99
10237	Chloroform	67-66-3	N.D.	1	0.99
10237	Chloromethane	74-87-3	N.D.	2	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.99
10237	Dibromochloromethane	124-48-1	N.D.	1	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.99
10237	Dibromomethane	74-95-3	N.D.	1	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.99
10237	Ethylbenzene	100-41-4	N.D.	1	0.99
10237	2-Hexanone	591-78-6	N.D.	3	0.99
10237	Isopropylbenzene	98-82-8	N.D.	1	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.99
10237	Methylene Chloride	75-09-2	N.D.	2	0.99
10237	n-Propylbenzene	103-65-1	N.D.	1	0.99
10237	Styrene	100-42-5	N.D.	1	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.99
10237	Tetrachloroethene	127-18-4	N.D.	1	0.99
10237	Toluene	108-88-3	N.D.	1	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.99

Sample Description: VP-CS-SWMU5-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938088
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C1 SDG#: NWP12-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.99
10237	Trichloroethene	79-01-6	N.D.	1	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.99
10237	Vinyl Chloride	75-01-4	N.D.	1	0.99
10237	m+p-Xylene	179601-23-1	N.D.	1	0.99
10237	o-Xylene	95-47-6	N.D.	1	0.99

Sample contains concrete which is known to react with and decrease the recoveries of the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	N.D.	3	1
10726	Benzo(a)pyrene	50-32-8	4	3	1
10726	Benzo(b)fluoranthene	205-99-2	6	3	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	3	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	69	1
10726	Di-n-butylphthalate	84-74-2	N.D.	69	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	N.D.	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	69	1

Sample Description: VP-CS-SWMU5-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938088
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C1 SDG#: NWP12-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	69	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	69	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	1
10726	Fluoranthene	206-44-0	5 J	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	N.D.	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	69	1
10726	4-Nitroaniline	100-01-6	N.D.	69	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	69	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	11 J	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	N.D.	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: VP-CS-SWMU5-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938088
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C1 SDG#: NWP12-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	3.7	1
10736	PCB-1221	11104-28-2	N.D.	4.7	1
10736	PCB-1232	11141-16-5	N.D.	8.2	1
10736	PCB-1242	53469-21-9	N.D.	3.4	1
10736	PCB-1248	12672-29-6	N.D.	3.4	1
10736	PCB-1254	11097-69-1	N.D.	3.4	1
10736	PCB-1260	11096-82-5	N.D.	5.0	1
10736	Total PCBs	1336-36-3	N.D.	3.4	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,510	4.54	1
06944	Antimony	7440-36-0	0.686 J	0.330	1
06935	Arsenic	7440-38-2	2.24	0.640	1
06946	Barium	7440-39-3	55.2	0.0330	1
06947	Beryllium	7440-41-7	0.790	0.0670	1
06949	Cadmium	7440-43-9	0.103 J	0.0330	1
01650	Calcium	7440-70-2	161,000	18.9	5
06951	Chromium	7440-47-3	15.1	0.110	1
06952	Cobalt	7440-48-4	1.52	0.0960	1
06953	Copper	7440-50-8	3.59	0.330	1
01654	Iron	7439-89-6	5,880	3.34	1
06955	Lead	7439-92-1	5.61	0.500	1
01657	Magnesium	7439-95-4	46,700	1.67	1
06958	Manganese	7439-96-5	776	0.0830	1
06961	Nickel	7440-02-0	4.68	0.150	1
01662	Potassium	7440-09-7	578	13.0	1
06936	Selenium	7782-49-2	0.515 J	0.440	1
06966	Silver	7440-22-4	N.D.	0.950	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	843	16.7	1
06925	Thallium	7440-28-0	N.D.	0.800	1
06971	Vanadium	7440-62-2	9.73	0.0910	1
06972	Zinc	7440-66-6	21.0	0.260	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.010	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	2.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: VP-CS-SWMU5-C1 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938088
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C1 SDG#: NWP12-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151761AA	06/25/2015 19:51	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:19	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 12:26	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740024A	06/27/2015 15:44	Jessica L Miller	1
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01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
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06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:44	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:44	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:44	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:28	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: VP-CS-SWMU5-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938089
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C2 SDG#: NWP12-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	8 J	7	0.96
10237	Benzene	71-43-2	N.D.	0.5	0.96
10237	Bromobenzene	108-86-1	N.D.	1	0.96
10237	Bromochloromethane	74-97-5	N.D.	1	0.96
10237	Bromodichloromethane	75-27-4	N.D.	1	0.96
10237	Bromoform	75-25-2	N.D.	1	0.96
10237	Bromomethane	74-83-9	N.D.	2	0.96
10237	2-Butanone	78-93-3	N.D.	4	0.96
10237	n-Butylbenzene	104-51-8	N.D.	1	0.96
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.96
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.96
10237	Carbon Disulfide	75-15-0	N.D.	1	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.96
10237	Chlorobenzene	108-90-7	N.D.	1	0.96
10237	Chloroethane	75-00-3	N.D.	2	0.96
10237	Chloroform	67-66-3	N.D.	1	0.96
10237	Chloromethane	74-87-3	N.D.	2	0.96
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.96
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.96
10237	Dibromochloromethane	124-48-1	N.D.	1	0.96
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.96
10237	Dibromomethane	74-95-3	N.D.	1	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.96
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.96
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.96
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.96
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.96
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.96
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.96
10237	Ethylbenzene	100-41-4	N.D.	1	0.96
10237	2-Hexanone	591-78-6	N.D.	3	0.96
10237	Isopropylbenzene	98-82-8	N.D.	1	0.96
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.96
10237	Methylene Chloride	75-09-2	N.D.	2	0.96
10237	n-Propylbenzene	103-65-1	N.D.	1	0.96
10237	Styrene	100-42-5	N.D.	1	0.96
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.96
10237	Tetrachloroethene	127-18-4	N.D.	1	0.96
10237	Toluene	108-88-3	N.D.	1	0.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.96

Sample Description: VP-CS-SWMU5-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938089
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C2 SDG#: NWP12-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.96
10237	Trichloroethene	79-01-6	N.D.	1	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.96
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.96
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.96
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.96
10237	Vinyl Chloride	75-01-4	N.D.	1	0.96
10237	m+p-Xylene	179601-23-1	N.D.	1	0.96
10237	o-Xylene	95-47-6	N.D.	1	0.96

Sample contains concrete which is known to react with and decrease the recoveries of the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	N.D.	3	1
10726	Benzo(a)pyrene	50-32-8	N.D.	3	1
10726	Benzo(b)fluoranthene	205-99-2	14	J	1
10726	Benzo(g,h,i)perylene	191-24-2	11	J	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	69	1
10726	Di-n-butylphthalate	84-74-2	N.D.	69	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	12	J	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	69	1

Sample Description: VP-CS-SWMU5-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938089
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C2 SDG#: NWP12-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	69	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	69	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	1
10726	Fluoranthene	206-44-0	13 J	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	18	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	69	1
10726	4-Nitroaniline	100-01-6	N.D.	69	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	69	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	93	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	9 J	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: VP-CS-SWMU5-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938089
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C2 SDG#: NWP12-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	3.7	1
10736	PCB-1221	11104-28-2	N.D.	4.8	1
10736	PCB-1232	11141-16-5	N.D.	8.3	1
10736	PCB-1242	53469-21-9	N.D.	3.4	1
10736	PCB-1248	12672-29-6	N.D.	3.4	1
10736	PCB-1254	11097-69-1	N.D.	3.4	1
10736	PCB-1260	11096-82-5	N.D.	5.1	1
10736	Total PCBs	1336-36-3	N.D.	3.4	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,070	4.67	1
06944	Antimony	7440-36-0	0.732 J	0.339	1
06935	Arsenic	7440-38-2	3.24	0.658	1
06946	Barium	7440-39-3	61.7	0.0339	1
06947	Beryllium	7440-41-7	0.945	0.0689	1
06949	Cadmium	7440-43-9	0.129 J	0.0339	1
01650	Calcium	7440-70-2	173,000	19.5	5
06951	Chromium	7440-47-3	16.5	0.113	1
06952	Cobalt	7440-48-4	1.42	0.0987	1
06953	Copper	7440-50-8	4.43	0.339	1
01654	Iron	7439-89-6	8,080	3.43	1
06955	Lead	7439-92-1	6.34	0.514	1
01657	Magnesium	7439-95-4	41,700	1.72	1
06958	Manganese	7439-96-5	1,060	0.427	5
06961	Nickel	7440-02-0	4.67	0.154	1
01662	Potassium	7440-09-7	573	13.4	1
06936	Selenium	7782-49-2	1.57 J	0.452	1
06966	Silver	7440-22-4	N.D.	0.977	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	472	17.2	1
06925	Thallium	7440-28-0	N.D.	0.823	1
06971	Vanadium	7440-62-2	10.9	0.0936	1
06972	Zinc	7440-66-6	30.5	0.267	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0103	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	3.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: VP-CS-SWMU5-C2 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938089
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

S5-C2 SDG#: NWP12-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151761AA	06/25/2015 20:13	Angela D Sneeringer	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:23	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 12:50	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740024A	06/27/2015 15:56	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740024A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:48	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 19:48	Katlin N Cataldi	5
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:48	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:48	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:30	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-B6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938090
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B6 SDG#: NWP12-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	16 J	7	0.94
10237	Benzene	71-43-2	N.D.	0.5	0.94
10237	Bromobenzene	108-86-1	N.D.	1	0.94
10237	Bromochloromethane	74-97-5	N.D.	1	0.94
10237	Bromodichloromethane	75-27-4	N.D.	1	0.94
10237	Bromoform	75-25-2	N.D.	1	0.94
10237	Bromomethane	74-83-9	N.D.	2	0.94
10237	2-Butanone	78-93-3	N.D.	4	0.94
10237	n-Butylbenzene	104-51-8	N.D.	1	0.94
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.94
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.94
10237	Carbon Disulfide	75-15-0	N.D.	1	0.94
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.94
10237	Chlorobenzene	108-90-7	N.D.	1	0.94
10237	Chloroethane	75-00-3	N.D.	2	0.94
10237	Chloroform	67-66-3	N.D.	1	0.94
10237	Chloromethane	74-87-3	N.D.	2	0.94
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.94
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.94
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.94
10237	Dibromochloromethane	124-48-1	N.D.	1	0.94
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.94
10237	Dibromomethane	74-95-3	N.D.	1	0.94
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.94
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.94
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.94
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.94
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.94
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.94
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.94
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.94
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.94
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.94
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.94
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.94
10237	Ethylbenzene	100-41-4	N.D.	1	0.94
10237	2-Hexanone	591-78-6	N.D.	3	0.94
10237	Isopropylbenzene	98-82-8	N.D.	1	0.94
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.94
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.94
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.94
10237	Methylene Chloride	75-09-2	N.D.	2	0.94
10237	n-Propylbenzene	103-65-1	N.D.	1	0.94
10237	Styrene	100-42-5	N.D.	1	0.94
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.94
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.94
10237	Tetrachloroethene	127-18-4	N.D.	1	0.94
10237	Toluene	108-88-3	N.D.	1	0.94
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.94
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.94

Sample Description: PLA-CS-George Building-B6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938090
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B6 SDG#: NWP12-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.94
10237	Trichloroethene	79-01-6	N.D.	1	0.94
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.94
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.94
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.94
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.94
10237	Vinyl Chloride	75-01-4	N.D.	1	0.94
10237	m+p-Xylene	179601-23-1	N.D.	1	0.94
10237	o-Xylene	95-47-6	N.D.	1	0.94
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	5	3	1
10726	Anthracene	120-12-7	7	3	1
10726	Benzidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	24	3	1
10726	Benzo(a)pyrene	50-32-8	32	3	1
10726	Benzo(b)fluoranthene	205-99-2	90	3	1
10726	Benzo(g,h,i)perylene	191-24-2	59	3	1
10726	Benzo(k)fluoranthene	207-08-9	30	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	68	1
10726	Di-n-butylphthalate	84-74-2	N.D.	68	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	86	3	1
10726	Dibenz(a,h)anthracene	53-70-3	18	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	68	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	68	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1

Sample Description: PLA-CS-George Building-B6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938090
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:00

Geosyntec

1420 Kensington Road

Submitted: 06/20/2015 09:35

Suite 103

Reported: 06/29/2015 09:12

Oakbrook IL 60523

GB-B6 SDG#: NWP12-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	68	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	140	68	1
10726	Fluoranthene	206-44-0	150	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	47	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	7	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	4	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	68	1
10726	4-Nitroaniline	100-01-6	N.D.	68	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	68	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	85	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	91	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals SW-846 6010B

mg/kg

mg/kg

Sample Description: PLA-CS-George Building-B6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938090
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B6 SDG#: NWP12-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	4,660	4.51	1
06944	Antimony	7440-36-0	1.06 J	0.327	1
06935	Arsenic	7440-38-2	4.97	0.635	1
06946	Barium	7440-39-3	39.2	0.0327	1
06947	Beryllium	7440-41-7	0.281 J	0.0665	1
06949	Cadmium	7440-43-9	0.114 J	0.0327	1
01650	Calcium	7440-70-2	99,100	18.8	5
06951	Chromium	7440-47-3	10.5	0.109	1
06952	Cobalt	7440-48-4	3.96	0.0953	1
06953	Copper	7440-50-8	10.4	0.327	1
01654	Iron	7439-89-6	8,560	3.31	1
06955	Lead	7439-92-1	10.8	0.496	1
01657	Magnesium	7439-95-4	23,000	1.66	1
06958	Manganese	7439-96-5	433	0.0824	1
06961	Nickel	7440-02-0	12.6	0.149	1
01662	Potassium	7440-09-7	1,100	12.9	1
06936	Selenium	7782-49-2	1.47 J	0.437	1
06966	Silver	7440-22-4	N.D.	0.943	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	502	16.6	1
06925	Thallium	7440-28-0	N.D.	0.794	1
06971	Vanadium	7440-62-2	12.9	0.0903	1
06972	Zinc	7440-66-6	43.5	0.258	1

SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0100	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	3.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151761AA	06/25/2015 20:36	Angela D Sneeringer	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-B6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938090
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B6 SDG#: NWP12-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:27	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 13:13	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:51	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:51	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:51	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:32	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938091
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C3 SDG#: NWP12-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	26	7	0.99
10237	Benzene	71-43-2	N.D.	0.5	0.99
10237	Bromobenzene	108-86-1	N.D.	1	0.99
10237	Bromochloromethane	74-97-5	N.D.	1	0.99
10237	Bromodichloromethane	75-27-4	N.D.	1	0.99
10237	Bromoform	75-25-2	N.D.	1	0.99
10237	Bromomethane	74-83-9	N.D.	2	0.99
10237	2-Butanone	78-93-3	N.D.	4	0.99
10237	n-Butylbenzene	104-51-8	N.D.	1	0.99
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.99
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.99
10237	Carbon Disulfide	75-15-0	N.D.	1	0.99
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.99
10237	Chlorobenzene	108-90-7	N.D.	1	0.99
10237	Chloroethane	75-00-3	N.D.	2	0.99
10237	Chloroform	67-66-3	N.D.	1	0.99
10237	Chloromethane	74-87-3	N.D.	2	0.99
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.99
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.99
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.99
10237	Dibromochloromethane	124-48-1	N.D.	1	0.99
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.99
10237	Dibromomethane	74-95-3	N.D.	1	0.99
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.99
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.99
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.99
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.99
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.99
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.99
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.99
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.99
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.99
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.99
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.99
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.99
10237	Ethylbenzene	100-41-4	N.D.	1	0.99
10237	2-Hexanone	591-78-6	N.D.	3	0.99
10237	Isopropylbenzene	98-82-8	N.D.	1	0.99
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.99
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.99
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.99
10237	Methylene Chloride	75-09-2	N.D.	2	0.99
10237	n-Propylbenzene	103-65-1	N.D.	1	0.99
10237	Styrene	100-42-5	N.D.	1	0.99
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.99
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.99
10237	Tetrachloroethene	127-18-4	N.D.	1	0.99
10237	Toluene	108-88-3	N.D.	1	0.99
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.99
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.99

Sample Description: PLA-CS-George Building-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938091
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C3 SDG#: NWP12-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.99
10237	Trichloroethene	79-01-6	N.D.	1	0.99
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.99
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.99
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.99
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.99
10237	Vinyl Chloride	75-01-4	N.D.	1	0.99
10237	m+p-Xylene	179601-23-1	N.D.	1	0.99
10237	o-Xylene	95-47-6	N.D.	1	0.99

Sample contains concrete which is known to react with and decrease the recoveries for the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	18	3	1
10726	Benzo(a)pyrene	50-32-8	N.D.	3	1
10726	Benzo(b)fluoranthene	205-99-2	38	3	1
10726	Benzo(g,h,i)perylene	191-24-2	28	3	1
10726	Benzo(k)fluoranthene	207-08-9	15	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	68	1
10726	Di-n-butylphthalate	84-74-2	N.D.	68	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	150	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	68	1

Sample Description: PLA-CS-George Building-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938091
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C3 SDG#: NWP12-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	68	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	68	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	68	1
10726	Fluoranthene	206-44-0	72	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	15 J	3	1
10726	Isophorone	78-59-1	160	17	1
10726	2-Methylnaphthalene	91-57-6	20	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	9 J	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	68	1
10726	4-Nitroaniline	100-01-6	N.D.	68	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	68	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	150	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	80	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: PLA-CS-George Building-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938091
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:45

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Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C3 SDG#: NWP12-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,690	4.47	1
06944	Antimony	7440-36-0	1.20 J	0.325	1
06935	Arsenic	7440-38-2	4.19	0.630	1
06946	Barium	7440-39-3	40.5	0.0325	1
06947	Beryllium	7440-41-7	0.554	0.0659	1
06949	Cadmium	7440-43-9	0.107 J	0.0325	1
01650	Calcium	7440-70-2	132,000	18.7	5
06951	Chromium	7440-47-3	10.1	0.108	1
06952	Cobalt	7440-48-4	4.13	0.0945	1
06953	Copper	7440-50-8	9.15	0.325	1
01654	Iron	7439-89-6	11,200	3.29	1
06955	Lead	7439-92-1	8.54	0.492	1
01657	Magnesium	7439-95-4	32,800	1.64	1
06958	Manganese	7439-96-5	784	0.0817	1
06961	Nickel	7440-02-0	9.53	0.148	1
01662	Potassium	7440-09-7	1,180	12.8	1
06936	Selenium	7782-49-2	1.41 J	0.433	1
06966	Silver	7440-22-4	N.D.	0.935	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	428	16.4	1
06925	Thallium	7440-28-0	N.D.	0.787	1
06971	Vanadium	7440-62-2	14.6	0.0896	1
06972	Zinc	7440-66-6	32.8	0.256	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0099	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	2.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/25/2015 23:25	Sara E Johnson	0.99
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-C3 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938091
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C3 SDG#: NWP12-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:31	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 13:36	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:54	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:54	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:55	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:34	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-B4 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938092
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B4 SDG#: NWP12-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	9 J	7	0.98
10237	Benzene	71-43-2	N.D.	0.5	0.98
10237	Bromobenzene	108-86-1	N.D.	1	0.98
10237	Bromochloromethane	74-97-5	N.D.	1	0.98
10237	Bromodichloromethane	75-27-4	N.D.	1	0.98
10237	Bromoform	75-25-2	N.D.	1	0.98
10237	Bromomethane	74-83-9	N.D.	2	0.98
10237	2-Butanone	78-93-3	N.D.	4	0.98
10237	n-Butylbenzene	104-51-8	N.D.	1	0.98
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.98
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.98
10237	Carbon Disulfide	75-15-0	N.D.	1	0.98
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.98
10237	Chlorobenzene	108-90-7	N.D.	1	0.98
10237	Chloroethane	75-00-3	N.D.	2	0.98
10237	Chloroform	67-66-3	N.D.	1	0.98
10237	Chloromethane	74-87-3	N.D.	2	0.98
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.98
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.98
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.98
10237	Dibromochloromethane	124-48-1	N.D.	1	0.98
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.98
10237	Dibromomethane	74-95-3	N.D.	1	0.98
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.98
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.98
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.98
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.98
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.98
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.98
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.98
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.98
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.98
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.98
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.98
10237	Ethylbenzene	100-41-4	N.D.	1	0.98
10237	2-Hexanone	591-78-6	N.D.	3	0.98
10237	Isopropylbenzene	98-82-8	N.D.	1	0.98
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.98
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.98
10237	Methylene Chloride	75-09-2	N.D.	2	0.98
10237	n-Propylbenzene	103-65-1	N.D.	1	0.98
10237	Styrene	100-42-5	N.D.	1	0.98
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.98
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.98
10237	Tetrachloroethene	127-18-4	N.D.	1	0.98
10237	Toluene	108-88-3	N.D.	1	0.98
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.98
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.98

Sample Description: PLA-CS-George Building-B4 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938092
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B4 SDG#: NWP12-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.98
10237	Trichloroethene	79-01-6	N.D.	1	0.98
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.98
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.98
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.98
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.98
10237	Vinyl Chloride	75-01-4	N.D.	1	0.98
10237	m+p-Xylene	179601-23-1	N.D.	1	0.98
10237	o-Xylene	95-47-6	N.D.	1	0.98

Sample contains concrete which is known to react with and decrease the recoveries for the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	18 J	4	1
10726	Benzidine	92-87-5	N.D.	740	1
10726	Benzo(a)anthracene	56-55-3	34	4	1
10726	Benzo(a)pyrene	50-32-8	34	4	1
10726	Benzo(b)fluoranthene	205-99-2	52	4	1
10726	Benzo(g,h,i)perylene	191-24-2	36	4	1
10726	Benzo(k)fluoranthene	207-08-9	31	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	70	1
10726	Di-n-butylphthalate	84-74-2	N.D.	70	1
10726	Carbazole	86-74-8	N.D.	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	46	4	1
10726	Dibenz(a,h)anthracene	53-70-3	10 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	70	1

Sample Description: PLA-CS-George Building-B4 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938092
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B4 SDG#: NWP12-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	70	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	70	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	70	1
10726	Fluoranthene	206-44-0	87	4	1
10726	Fluorene	86-73-7	5 J	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	34	4	1
10726	Isophorone	78-59-1	31 J	18	1
10726	2-Methylnaphthalene	91-57-6	4 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	70	1
10726	4-Nitroaniline	100-01-6	N.D.	70	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	70	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	71	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	73	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: PLA-CS-George Building-B4 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938092
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B4 SDG#: NWP12-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,800	4.64	1
06944	Antimony	7440-36-0	1.06 J	0.337	1
06935	Arsenic	7440-38-2	2.61	0.654	1
06946	Barium	7440-39-3	124	0.0337	1
06947	Beryllium	7440-41-7	1.65	0.0685	1
06949	Cadmium	7440-43-9	N.D.	0.0337	1
01650	Calcium	7440-70-2	143,000	19.4	5
06951	Chromium	7440-47-3	20.3	0.112	1
06952	Cobalt	7440-48-4	1.71	0.0981	1
06953	Copper	7440-50-8	6.38	0.337	1
01654	Iron	7439-89-6	8,010	3.41	1
06955	Lead	7439-92-1	5.50	0.511	1
01657	Magnesium	7439-95-4	6,550	1.71	1
06958	Manganese	7439-96-5	1,610	0.424	5
06961	Nickel	7440-02-0	9.38	0.153	1
01662	Potassium	7440-09-7	826	13.3	1
06936	Selenium	7782-49-2	1.05 J	0.450	1
06966	Silver	7440-22-4	N.D.	0.971	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	342	17.1	1
06925	Thallium	7440-28-0	N.D.	0.818	1
06971	Vanadium	7440-62-2	11.4	0.0930	1
06972	Zinc	7440-66-6	40.9	0.266	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0104	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	5.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/25/2015 23:47	Sara E Johnson	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-B4 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938092
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B4 SDG#: NWP12-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:35	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 14:00	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 19:58	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 19:58	Katlin N Cataldi	5
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 19:58	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 14:58	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:36	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-C8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938093
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C8 SDG#: NWP12-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	15 J	7	0.95
10237	Benzene	71-43-2	N.D.	0.5	0.95
10237	Bromobenzene	108-86-1	N.D.	1	0.95
10237	Bromochloromethane	74-97-5	N.D.	1	0.95
10237	Bromodichloromethane	75-27-4	N.D.	1	0.95
10237	Bromoform	75-25-2	N.D.	1	0.95
10237	Bromomethane	74-83-9	N.D.	2	0.95
10237	2-Butanone	78-93-3	N.D.	4	0.95
10237	n-Butylbenzene	104-51-8	N.D.	1	0.95
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.95
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.95
10237	Carbon Disulfide	75-15-0	N.D.	1	0.95
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.95
10237	Chlorobenzene	108-90-7	N.D.	1	0.95
10237	Chloroethane	75-00-3	N.D.	2	0.95
10237	Chloroform	67-66-3	N.D.	1	0.95
10237	Chloromethane	74-87-3	N.D.	2	0.95
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.95
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.95
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.95
10237	Dibromochloromethane	124-48-1	N.D.	1	0.95
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.95
10237	Dibromomethane	74-95-3	N.D.	1	0.95
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.95
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.95
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.95
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.95
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.95
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.95
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.95
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.95
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.95
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.95
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.95
10237	Ethylbenzene	100-41-4	N.D.	1	0.95
10237	2-Hexanone	591-78-6	N.D.	3	0.95
10237	Isopropylbenzene	98-82-8	N.D.	1	0.95
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.95
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.95
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.95
10237	Methylene Chloride	75-09-2	2 J	2	0.95
10237	n-Propylbenzene	103-65-1	N.D.	1	0.95
10237	Styrene	100-42-5	N.D.	1	0.95
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.95
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.95
10237	Tetrachloroethene	127-18-4	N.D.	1	0.95
10237	Toluene	108-88-3	N.D.	1	0.95
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.95
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.95

Sample Description: PLA-CS-George Building-C8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938093
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C8 SDG#: NWP12-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.95
10237	Trichloroethene	79-01-6	N.D.	1	0.95
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.95
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.95
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.95
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.95
10237	Vinyl Chloride	75-01-4	N.D.	1	0.95
10237	m+p-Xylene	179601-23-1	N.D.	1	0.95
10237	o-Xylene	95-47-6	N.D.	1	0.95

Sample contains concrete which is known to react with and decrease the recoveries for the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	N.D.	3	1
10726	Benzo(a)pyrene	50-32-8	N.D.	3	1
10726	Benzo(b)fluoranthene	205-99-2	7 J	3	1
10726	Benzo(g,h,i)perylene	191-24-2	12 J	3	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	68	1
10726	Di-n-butylphthalate	84-74-2	N.D.	68	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	10 J	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	68	1

Sample Description: PLA-CS-George Building-C8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938093
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C8 SDG#: NWP12-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	68	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	68	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	68	1
10726	Fluoranthene	206-44-0	11 J	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	1
10726	Isophorone	78-59-1	27 J	17	1
10726	2-Methylnaphthalene	91-57-6	7 J	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	68	1
10726	4-Nitroaniline	100-01-6	N.D.	68	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	68	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	8 J	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	8 J	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: PLA-CS-George Building-C8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938093
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C8 SDG#: NWP12-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,320	4.59	1
06944	Antimony	7440-36-0	0.795 J	0.334	1
06935	Arsenic	7440-38-2	3.47	0.647	1
06946	Barium	7440-39-3	61.9	0.0334	1
06947	Beryllium	7440-41-7	1.05	0.0678	1
06949	Cadmium	7440-43-9	0.144 J	0.0334	1
01650	Calcium	7440-70-2	158,000	19.2	5
06951	Chromium	7440-47-3	6.29	0.111	1
06952	Cobalt	7440-48-4	2.53	0.0971	1
06953	Copper	7440-50-8	4.36	0.334	1
01654	Iron	7439-89-6	10,200	3.38	1
06955	Lead	7439-92-1	12.6	0.506	1
01657	Magnesium	7439-95-4	30,900	1.69	1
06958	Manganese	7439-96-5	862	0.0839	1
06961	Nickel	7440-02-0	6.13	0.152	1
01662	Potassium	7440-09-7	841	13.1	1
06936	Selenium	7782-49-2	1.89 J	0.445	1
06966	Silver	7440-22-4	N.D.	0.961	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	217	16.9	1
06925	Thallium	7440-28-0	N.D.	0.809	1
06971	Vanadium	7440-62-2	10.2	0.0920	1
06972	Zinc	7440-66-6	158	0.263	1

		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0101	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	4.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 00:10	Sara E Johnson	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-C8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938093
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C8 SDG#: NWP12-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:16	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 14:23	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 20:01	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 20:01	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 15:02	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:38	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-B5 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938094
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B5 SDG#: NWP12-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	22	7	0.97
10237	Benzene	71-43-2	N.D.	0.5	0.97
10237	Bromobenzene	108-86-1	N.D.	1	0.97
10237	Bromochloromethane	74-97-5	N.D.	1	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	0.97
10237	Bromoform	75-25-2	N.D.	1	0.97
10237	Bromomethane	74-83-9	N.D.	2	0.97
10237	2-Butanone	78-93-3	N.D.	4	0.97
10237	n-Butylbenzene	104-51-8	N.D.	1	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.97
10237	Carbon Disulfide	75-15-0	N.D.	1	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.97
10237	Chlorobenzene	108-90-7	N.D.	1	0.97
10237	Chloroethane	75-00-3	N.D.	2	0.97
10237	Chloroform	67-66-3	N.D.	1	0.97
10237	Chloromethane	74-87-3	N.D.	2	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.97
10237	Dibromomethane	74-95-3	N.D.	1	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.97
10237	Ethylbenzene	100-41-4	N.D.	1	0.97
10237	2-Hexanone	591-78-6	N.D.	3	0.97
10237	Isopropylbenzene	98-82-8	N.D.	1	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	0.97
10237	n-Propylbenzene	103-65-1	N.D.	1	0.97
10237	Styrene	100-42-5	N.D.	1	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	0.97
10237	Toluene	108-88-3	N.D.	1	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.97

Sample Description: PLA-CS-George Building-B5 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938094
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B5 SDG#: NWP12-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.97
10237	Trichloroethene	79-01-6	N.D.	1	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.97
10237	Vinyl Chloride	75-01-4	N.D.	1	0.97
10237	m+p-Xylene	179601-23-1	N.D.	1	0.97
10237	o-Xylene	95-47-6	N.D.	1	0.97

Sample contains concrete which is known to react with and decrease the recoveries for the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	730	1
10726	Benzo(a)anthracene	56-55-3	6 J	3	1
10726	Benzo(a)pyrene	50-32-8	N.D.	3	1
10726	Benzo(b)fluoranthene	205-99-2	19	3	1
10726	Benzo(g,h,i)perylene	191-24-2	13 J	3	1
10726	Benzo(k)fluoranthene	207-08-9	5 J	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	70	1
10726	Di-n-butylphthalate	84-74-2	N.D.	70	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	27	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	70	1

Sample Description: PLA-CS-George Building-B5 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938094
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B5 SDG#: NWP12-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	70	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	70	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	70	1
10726	Fluoranthene	206-44-0	31	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	8 J	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	5 J	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	70	1
10726	4-Nitroaniline	100-01-6	N.D.	70	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	70	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	37	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	29	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was

Sample Description: PLA-CS-George Building-B5 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938094
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B5 SDG#: NWP12-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
contacted and the data reported.					
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	9,840	4.76	1
06944	Antimony	7440-36-0	0.554 J	0.346	1
06935	Arsenic	7440-38-2	2.60	0.671	1
06946	Barium	7440-39-3	88.9	0.0346	1
06947	Beryllium	7440-41-7	1.26	0.0702	1
06949	Cadmium	7440-43-9	0.0451 J	0.0346	1
01650	Calcium	7440-70-2	130,000	19.9	5
06951	Chromium	7440-47-3	6.52	0.115	1
06952	Cobalt	7440-48-4	1.45	0.101	1
06953	Copper	7440-50-8	3.84	0.346	1
01654	Iron	7439-89-6	6,410	3.50	1
06955	Lead	7439-92-1	5.24	0.524	1
01657	Magnesium	7439-95-4	15,100	1.75	1
06958	Manganese	7439-96-5	1,300	0.435	5
06961	Nickel	7440-02-0	4.89	0.157	1
01662	Potassium	7440-09-7	861	13.6	1
06936	Selenium	7782-49-2	N.D.	0.461	1
06966	Silver	7440-22-4	N.D.	0.995	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	306	17.5	1
06925	Thallium	7440-28-0	N.D.	0.838	1
06971	Vanadium	7440-62-2	8.89	0.0953	1
06972	Zinc	7440-66-6	27.3	0.272	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0101	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	5.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 00:32	Sara E Johnson	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-B5 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938094
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B5 SDG#: NWP12-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:39	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 14:46	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 20:04	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 20:04	Katlin N Cataldi	5
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 20:04	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 15:06	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:40	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-D7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938095
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-D7 SDG#: NWP12-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	9 J	7	0.97
10237	Benzene	71-43-2	N.D.	0.5	0.97
10237	Bromobenzene	108-86-1	N.D.	1	0.97
10237	Bromochloromethane	74-97-5	N.D.	1	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	0.97
10237	Bromoform	75-25-2	N.D.	1	0.97
10237	Bromomethane	74-83-9	N.D.	2	0.97
10237	2-Butanone	78-93-3	N.D.	4	0.97
10237	n-Butylbenzene	104-51-8	N.D.	1	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.97
10237	Carbon Disulfide	75-15-0	N.D.	1	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.97
10237	Chlorobenzene	108-90-7	N.D.	1	0.97
10237	Chloroethane	75-00-3	N.D.	2	0.97
10237	Chloroform	67-66-3	N.D.	1	0.97
10237	Chloromethane	74-87-3	N.D.	2	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.97
10237	Dibromomethane	74-95-3	N.D.	1	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.97
10237	Ethylbenzene	100-41-4	N.D.	1	0.97
10237	2-Hexanone	591-78-6	N.D.	3	0.97
10237	Isopropylbenzene	98-82-8	N.D.	1	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	0.97
10237	n-Propylbenzene	103-65-1	N.D.	1	0.97
10237	Styrene	100-42-5	N.D.	1	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	0.97
10237	Toluene	108-88-3	N.D.	1	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.97

Sample Description: PLA-CS-George Building-D7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938095
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-D7 SDG#: NWP12-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.97
10237	Trichloroethene	79-01-6	N.D.	1	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.97
10237	Vinyl Chloride	75-01-4	N.D.	1	0.97
10237	m+p-Xylene	179601-23-1	N.D.	1	0.97
10237	o-Xylene	95-47-6	N.D.	1	0.97
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	N.D.	3	1
10726	Benzo(a)pyrene	50-32-8	N.D.	3	1
10726	Benzo(b)fluoranthene	205-99-2	7 J	3	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	3	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	69	1
10726	Di-n-butylphthalate	84-74-2	N.D.	69	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	39	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	69	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	69	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1

Sample Description: PLA-CS-George Building-D7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938095
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-D7 SDG#: NWP12-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	69	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	1
10726	Fluoranthene	206-44-0	19	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	N.D.	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	N.D.	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	69	1
10726	4-Nitroaniline	100-01-6	N.D.	69	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	69	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	94	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	9 J	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals SW-846 6010B

mg/kg

mg/kg

Sample Description: PLA-CS-George Building-D7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938095
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-D7 SDG#: NWP12-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	5,630	4.71	1
06944	Antimony	7440-36-0	1.46 J	0.342	1
06935	Arsenic	7440-38-2	2.90	0.664	1
06946	Barium	7440-39-3	49.0	0.0342	1
06947	Beryllium	7440-41-7	0.684	0.0695	1
06949	Cadmium	7440-43-9	0.137 J	0.0342	1
01650	Calcium	7440-70-2	195,000	19.6	5
06951	Chromium	7440-47-3	11.0	0.114	1
06952	Cobalt	7440-48-4	2.09	0.0995	1
06953	Copper	7440-50-8	29.5	0.342	1
01654	Iron	7439-89-6	13,500	3.46	1
06955	Lead	7439-92-1	3.28	0.518	1
01657	Magnesium	7439-95-4	77,600	8.66	5
06958	Manganese	7439-96-5	622	0.0861	1
06961	Nickel	7440-02-0	6.44	0.156	1
01662	Potassium	7440-09-7	723	13.5	1
06936	Selenium	7782-49-2	2.39	0.456	1
06966	Silver	7440-22-4	N.D.	0.985	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	289	17.3	1
06925	Thallium	7440-28-0	N.D.	0.829	1
06971	Vanadium	7440-62-2	8.63	0.0943	1
06972	Zinc	7440-66-6	13.5	0.270	1

SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0103	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	4.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 00:55	Sara E Johnson	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-D7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938095
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-D7 SDG#: NWP12-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:42	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 15:09	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 20:14	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 20:14	Katlin N Cataldi	5
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 20:14	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 15:09	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:42	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-C7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938096
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C7 SDG#: NWP12-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	24	7	0.95
10237	Benzene	71-43-2	N.D.	0.5	0.95
10237	Bromobenzene	108-86-1	N.D.	1	0.95
10237	Bromochloromethane	74-97-5	N.D.	1	0.95
10237	Bromodichloromethane	75-27-4	N.D.	1	0.95
10237	Bromoform	75-25-2	N.D.	1	0.95
10237	Bromomethane	74-83-9	N.D.	2	0.95
10237	2-Butanone	78-93-3	N.D.	4	0.95
10237	n-Butylbenzene	104-51-8	N.D.	1	0.95
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.95
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.95
10237	Carbon Disulfide	75-15-0	N.D.	1	0.95
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.95
10237	Chlorobenzene	108-90-7	N.D.	1	0.95
10237	Chloroethane	75-00-3	N.D.	2	0.95
10237	Chloroform	67-66-3	N.D.	1	0.95
10237	Chloromethane	74-87-3	N.D.	2	0.95
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.95
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.95
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.95
10237	Dibromochloromethane	124-48-1	N.D.	1	0.95
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.95
10237	Dibromomethane	74-95-3	N.D.	1	0.95
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.95
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.95
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.95
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.95
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.95
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.95
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.95
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.95
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.95
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.95
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.95
10237	Ethylbenzene	100-41-4	N.D.	1	0.95
10237	2-Hexanone	591-78-6	N.D.	3	0.95
10237	Isopropylbenzene	98-82-8	N.D.	1	0.95
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.95
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.95
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.95
10237	Methylene Chloride	75-09-2	N.D.	2	0.95
10237	n-Propylbenzene	103-65-1	N.D.	1	0.95
10237	Styrene	100-42-5	N.D.	1	0.95
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.95
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.95
10237	Tetrachloroethene	127-18-4	N.D.	1	0.95
10237	Toluene	108-88-3	N.D.	1	0.95
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.95
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.95

Sample Description: PLA-CS-George Building-C7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938096
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C7 SDG#: NWP12-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.95
10237	Trichloroethene	79-01-6	N.D.	1	0.95
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.95
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.95
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.95
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.95
10237	Vinyl Chloride	75-01-4	N.D.	1	0.95
10237	m+p-Xylene	179601-23-1	1 J	1	0.95
10237	o-Xylene	95-47-6	N.D.	1	0.95
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	710	1
10726	Benzo(a)anthracene	56-55-3	7 J	3	1
10726	Benzo(a)pyrene	50-32-8	19	3	1
10726	Benzo(b)fluoranthene	205-99-2	21	3	1
10726	Benzo(g,h,i)perylene	191-24-2	19	3	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	68	1
10726	Di-n-butylphthalate	84-74-2	N.D.	68	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	39	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	68	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	68	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1

Sample Description: PLA-CS-George Building-C7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938096
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C7 SDG#: NWP12-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	68	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	68	1
10726	Fluoranthene	206-44-0	36	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	20	3	1
10726	Isophorone	78-59-1	38	17	1
10726	2-Methylnaphthalene	91-57-6	6 J	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	5 J	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	68	1
10726	4-Nitroaniline	100-01-6	N.D.	68	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	68	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	28	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	31	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals SW-846 6010B

mg/kg

mg/kg

Sample Description: PLA-CS-George Building-C7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938096
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

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Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C7 SDG#: NWP12-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	5,780	4.61	1
06944	Antimony	7440-36-0	1.82 J	0.335	1
06935	Arsenic	7440-38-2	4.62	0.649	1
06946	Barium	7440-39-3	48.3	0.0335	1
06947	Beryllium	7440-41-7	0.722	0.0680	1
06949	Cadmium	7440-43-9	0.168 J	0.0335	1
01650	Calcium	7440-70-2	117,000	19.2	5
06951	Chromium	7440-47-3	12.8	0.112	1
06952	Cobalt	7440-48-4	3.88	0.0974	1
06953	Copper	7440-50-8	19.4	0.335	1
01654	Iron	7439-89-6	16,400	3.39	1
06955	Lead	7439-92-1	11.6	0.507	1
01657	Magnesium	7439-95-4	30,400	1.69	1
06958	Manganese	7439-96-5	1,040	0.421	5
06961	Nickel	7440-02-0	18.2	0.152	1
01662	Potassium	7440-09-7	787	13.2	1
06936	Selenium	7782-49-2	2.58	0.446	1
06966	Silver	7440-22-4	N.D.	0.964	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	311	16.9	1
06925	Thallium	7440-28-0	N.D.	0.812	1
06971	Vanadium	7440-62-2	16.6	0.0923	1
06972	Zinc	7440-66-6	80.3	0.264	1

SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0101	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	2.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 01:17	Sara E Johnson	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-C7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938096
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C7 SDG#: NWP12-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:46	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 15:33	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 20:17	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 20:17	Katlin N Cataldi	5
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 20:17	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 15:13	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:48	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-B7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938097
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B7 SDG#: NWP12-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	8 J	7	0.97
10237	Benzene	71-43-2	N.D.	0.5	0.97
10237	Bromobenzene	108-86-1	N.D.	1	0.97
10237	Bromochloromethane	74-97-5	N.D.	1	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	0.97
10237	Bromoform	75-25-2	N.D.	1	0.97
10237	Bromomethane	74-83-9	N.D.	2	0.97
10237	2-Butanone	78-93-3	N.D.	4	0.97
10237	n-Butylbenzene	104-51-8	N.D.	1	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.97
10237	Carbon Disulfide	75-15-0	N.D.	1	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.97
10237	Chlorobenzene	108-90-7	N.D.	1	0.97
10237	Chloroethane	75-00-3	N.D.	2	0.97
10237	Chloroform	67-66-3	N.D.	1	0.97
10237	Chloromethane	74-87-3	N.D.	2	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.97
10237	Dibromomethane	74-95-3	N.D.	1	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.97
10237	Ethylbenzene	100-41-4	N.D.	1	0.97
10237	2-Hexanone	591-78-6	N.D.	3	0.97
10237	Isopropylbenzene	98-82-8	N.D.	1	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	0.97
10237	n-Propylbenzene	103-65-1	N.D.	1	0.97
10237	Styrene	100-42-5	N.D.	1	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	0.97
10237	Toluene	108-88-3	N.D.	1	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.97

Sample Description: PLA-CS-George Building-B7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938097
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B7 SDG#: NWP12-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.97
10237	Trichloroethene	79-01-6	N.D.	1	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.97
10237	Vinyl Chloride	75-01-4	N.D.	1	0.97
10237	m+p-Xylene	179601-23-1	N.D.	1	0.97
10237	o-Xylene	95-47-6	N.D.	1	0.97
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benizidine	92-87-5	N.D.	740	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	4	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	70	1
10726	Di-n-butylphthalate	84-74-2	N.D.	70	1
10726	Carbazole	86-74-8	N.D.	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	37	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	70	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	70	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-CS-George Building-B7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938097
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B7 SDG#: NWP12-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	70	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	70	1
10726	Fluoranthene	206-44-0	47	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	18	1
10726	2-Methylnaphthalene	91-57-6	5 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	70	1
10726	4-Nitroaniline	100-01-6	N.D.	70	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	70	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	32	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	14 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals SW-846 6010B mg/kg mg/kg

Sample Description: PLA-CS-George Building-B7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938097
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B7 SDG#: NWP12-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,070	4.71	1
06944	Antimony	7440-36-0	2.03 J	0.342	1
06935	Arsenic	7440-38-2	4.21	0.664	1
06946	Barium	7440-39-3	70.9	0.0342	1
06947	Beryllium	7440-41-7	1.13	0.0695	1
06949	Cadmium	7440-43-9	N.D.	0.0342	1
01650	Calcium	7440-70-2	108,000	19.7	5
06951	Chromium	7440-47-3	13.4	0.114	1
06952	Cobalt	7440-48-4	2.88	0.0996	1
06953	Copper	7440-50-8	8.66	0.342	1
01654	Iron	7439-89-6	21,600	3.47	1
06955	Lead	7439-92-1	10.6	0.519	1
01657	Magnesium	7439-95-4	17,800	1.73	1
06958	Manganese	7439-96-5	1,340	0.431	5
06961	Nickel	7440-02-0	11.6	0.156	1
01662	Potassium	7440-09-7	920	13.5	1
06936	Selenium	7782-49-2	3.16	0.456	1
06966	Silver	7440-22-4	N.D.	0.197	1
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	236	17.3	1
06925	Thallium	7440-28-0	N.D.	0.830	1
06971	Vanadium	7440-62-2	14.4	0.0944	1
06972	Zinc	7440-66-6	66.3	0.270	1

		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0101	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	5.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 01:40	Sara E Johnson	0.97
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:19	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-B7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938097
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:45

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-B7 SDG#: NWP12-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:50	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 15:56	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 20:20	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 20:20	Katlin N Cataldi	5
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 15:23	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:50	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: PLA-CS-George Building-C6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938098
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C6 SDG#: NWP12-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	13 J	7	0.96
10237	Benzene	71-43-2	N.D.	0.5	0.96
10237	Bromobenzene	108-86-1	N.D.	1	0.96
10237	Bromochloromethane	74-97-5	N.D.	1	0.96
10237	Bromodichloromethane	75-27-4	N.D.	1	0.96
10237	Bromoform	75-25-2	N.D.	1	0.96
10237	Bromomethane	74-83-9	N.D.	2	0.96
10237	2-Butanone	78-93-3	N.D.	4	0.96
10237	n-Butylbenzene	104-51-8	N.D.	1	0.96
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.96
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.96
10237	Carbon Disulfide	75-15-0	N.D.	1	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.96
10237	Chlorobenzene	108-90-7	N.D.	1	0.96
10237	Chloroethane	75-00-3	N.D.	2	0.96
10237	Chloroform	67-66-3	N.D.	1	0.96
10237	Chloromethane	74-87-3	N.D.	2	0.96
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.96
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.96
10237	Dibromochloromethane	124-48-1	N.D.	1	0.96
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.96
10237	Dibromomethane	74-95-3	N.D.	1	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.96
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.96
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.96
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.96
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.96
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.96
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.96
10237	Ethylbenzene	100-41-4	N.D.	1	0.96
10237	2-Hexanone	591-78-6	N.D.	3	0.96
10237	Isopropylbenzene	98-82-8	N.D.	1	0.96
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.96
10237	Methylene Chloride	75-09-2	N.D.	2	0.96
10237	n-Propylbenzene	103-65-1	N.D.	1	0.96
10237	Styrene	100-42-5	N.D.	1	0.96
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.96
10237	Tetrachloroethene	127-18-4	N.D.	1	0.96
10237	Toluene	108-88-3	N.D.	1	0.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.96

Sample Description: PLA-CS-George Building-C6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938098
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C6 SDG#: NWP12-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.96
10237	Trichloroethene	79-01-6	N.D.	1	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.96
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.96
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.96
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.96
10237	Vinyl Chloride	75-01-4	N.D.	1	0.96
10237	m+p-Xylene	179601-23-1	N.D.	1	0.96
10237	o-Xylene	95-47-6	N.D.	1	0.96
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	730	1
10726	Benzo(a)anthracene	56-55-3	4 J	3	1
10726	Benzo(a)pyrene	50-32-8	N.D.	3	1
10726	Benzo(b)fluoranthene	205-99-2	10 J	3	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	3	1
10726	Benzo(k)fluoranthene	207-08-9	9 J	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	70	1
10726	Di-n-butylphthalate	84-74-2	N.D.	70	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	19	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	70	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	70	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1

Sample Description: PLA-CS-George Building-C6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938098
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C6 SDG#: NWP12-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	70	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	70	1
10726	Fluoranthene	206-44-0	14 J	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	3	1
10726	Isophorone	78-59-1	N.D.	17	1
10726	2-Methylnaphthalene	91-57-6	N.D.	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	70	1
10726	4-Nitroaniline	100-01-6	N.D.	70	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	70	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	14 J	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	10 J	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
isophorone
nitrobenzene

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals SW-846 6010B

mg/kg

mg/kg

Sample Description: PLA-CS-George Building-C6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938098
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C6 SDG#: NWP12-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	6,630	4.70	1
06944	Antimony	7440-36-0	N.D.	0.342	1
06935	Arsenic	7440-38-2	2.78	0.663	1
06946	Barium	7440-39-3	60.3	0.0342	1
06947	Beryllium	7440-41-7	0.850	0.0694	1
06949	Cadmium	7440-43-9	0.139 J	0.0342	1
01650	Calcium	7440-70-2	200,000	19.6	5
06951	Chromium	7440-47-3	8.99	0.114	1
06952	Cobalt	7440-48-4	1.29	0.0994	1
06953	Copper	7440-50-8	4.76	0.342	1
01654	Iron	7439-89-6	6,740	3.46	1
06955	Lead	7439-92-1	3.05	0.518	1
01657	Magnesium	7439-95-4	76,300	8.65	5
06958	Manganese	7439-96-5	781	0.0860	1
06961	Nickel	7440-02-0	4.00	0.155	1
01662	Potassium	7440-09-7	832	13.5	1
06936	Selenium	7782-49-2	1.27 J	0.456	1
06966	Silver	7440-22-4	N.D.	0.984	5
Reporting limits were raised due to interference from the sample matrix.					
01667	Sodium	7440-23-5	263	17.3	1
06925	Thallium	7440-28-0	N.D.	0.829	1
06971	Vanadium	7440-62-2	8.92	0.0942	1
06972	Zinc	7440-66-6	18.6	0.269	1

SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0098	1

Wet Chemistry			%	%	
SM 2540 G-1997					
00111	Moisture	n.a.	4.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 02:03	Sara E Johnson	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 23:20	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517338053	06/22/2015 23:20	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George Building-C6 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938098
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 14:40

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-C6 SDG#: NWP12-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517338053	06/22/2015 22:53	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLA026	06/25/2015 16:19	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLA026	06/23/2015 18:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151765708001	06/26/2015 20:23	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708001	06/26/2015 20:23	Katlin N Cataldi	5
06958	Manganese	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151765708001	06/26/2015 20:23	Katlin N Cataldi	5
01667	Sodium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151765708001	06/26/2015 15:26	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151765711002	06/26/2015 08:52	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708001	06/25/2015 21:30	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711002	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15176820010B	06/25/2015 22:26	Scott W Freisher	1

Sample Description: TB-061915-C1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938099
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 15:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-TB SDG#: NWP12-15TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-061915-C1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7938099
LL Group # 1570835
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 15:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/29/2015 09:12

Suite 103

Oakbrook IL 60523

GB-TB SDG#: NWP12-15TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Chloromethane

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	E151771AA	06/26/2015 18:04	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151771AA	06/26/2015 18:04	Jason M Long	1

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A151761AA	Sample number(s): 7938086-7938090							
Acetone	N.D.	7.	ug/kg	118	116	57-127	2	30
Benzene	N.D.	0.5	ug/kg	98	99	80-120	1	30
Bromobenzene	N.D.	1.	ug/kg	99	99	78-120	1	30
Bromochloromethane	N.D.	1.	ug/kg	109	109	80-120	0	30
Bromodichloromethane	N.D.	1.	ug/kg	97	98	75-120	1	30
Bromoform	N.D.	1.	ug/kg	100	96	64-120	4	30
Bromomethane	N.D.	2.	ug/kg	95	95	41-144	1	30
2-Butanone	N.D.	4.	ug/kg	109	104	62-123	5	30
n-Butylbenzene	N.D.	1.	ug/kg	97	98	72-120	1	30
sec-Butylbenzene	N.D.	1.	ug/kg	98	101	69-120	2	30
tert-Butylbenzene	N.D.	1.	ug/kg	98	99	75-120	2	30
Carbon Disulfide	N.D.	1.	ug/kg	88	86	52-126	2	30
Carbon Tetrachloride	N.D.	1.	ug/kg	98	98	69-130	0	30
Chlorobenzene	N.D.	1.	ug/kg	102	102	80-120	0	30
Chloroethane	N.D.	2.	ug/kg	88	89	38-142	1	30
Chloroform	N.D.	1.	ug/kg	100	99	80-120	1	30
Chloromethane	N.D.	2.	ug/kg	100	101	56-120	2	30
2-Chlorotoluene	N.D.	1.	ug/kg	99	101	78-120	1	30
4-Chlorotoluene	N.D.	1.	ug/kg	99	99	79-120	0	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	101	102	59-122	1	30
Dibromochloromethane	N.D.	1.	ug/kg	98	98	77-120	1	30
1,2-Dibromoethane	N.D.	1.	ug/kg	108	106	80-120	1	30
Dibromomethane	N.D.	1.	ug/kg	104	102	80-120	2	30
Dichlorodifluoromethane	N.D.	2.	ug/kg	116	114	26-137	1	30
1,1-Dichloroethane	N.D.	1.	ug/kg	95	96	77-120	0	30
1,2-Dichloroethane	N.D.	1.	ug/kg	102	105	77-130	3	30
1,1-Dichloroethene	N.D.	1.	ug/kg	96	95	73-129	1	30
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	100	101	80-120	2	30
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	99	99	79-122	0	30
1,2-Dichloropropane	N.D.	1.	ug/kg	101	102	76-120	1	30
1,3-Dichloropropane	N.D.	1.	ug/kg	103	103	80-120	0	30
2,2-Dichloropropane	N.D.	1.	ug/kg	98	98	72-123	0	30
1,1-Dichloropropene	N.D.	1.	ug/kg	94	94	80-120	0	30
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	95	96	74-120	1	30
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	101	103	76-120	2	30
Ethylbenzene	N.D.	1.	ug/kg	101	101	80-120	0	30
2-Hexanone	N.D.	3.	ug/kg	111	106	47-133	5	30
Isopropylbenzene	N.D.	1.	ug/kg	100	101	76-120	1	30
p-Isopropyltoluene	N.D.	1.	ug/kg	96	98	69-120	2	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	102	103	72-120	1	30
4-Methyl-2-pentanone	N.D.	3.	ug/kg	111	107	57-123	4	30
Methylene Chloride	N.D.	2.	ug/kg	100	99	80-124	1	30
n-Propylbenzene	N.D.	1.	ug/kg	99	101	77-120	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/kg	103	103	76-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	100	100	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	106	107	72-120	0	30
Tetrachloroethene	N.D.	1.	ug/kg	101	101	78-120	0	30
Toluene	N.D.	1.	ug/kg	101	101	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	94	96	52-120	2	30
1,1,1-Trichloroethane	N.D.	1.	ug/kg	94	93	66-126	2	30
1,1,2-Trichloroethane	N.D.	1.	ug/kg	105	106	80-120	1	30
Trichloroethene	N.D.	1.	ug/kg	100	100	80-120	0	30
Trichlorofluoromethane	N.D.	2.	ug/kg	101	98	58-133	3	30
1,2,3-Trichloropropane	N.D.	1.	ug/kg	114	110	77-120	4	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	99	100	79-120	1	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	98	101	78-120	3	30
Vinyl Chloride	N.D.	1.	ug/kg	98	96	59-120	2	30
m+p-Xylene	N.D.	1.	ug/kg	101	101	80-120	0	30
o-Xylene	N.D.	1.	ug/kg	98	99	80-120	1	30

Batch number: A151764AA

Sample number(s): 7938085,7938091-7938098

Acetone	N.D.	7.	ug/kg	90		57-127		
Benzene	N.D.	0.5	ug/kg	93		80-120		
Bromobenzene	N.D.	1.	ug/kg	98		78-120		
Bromochloromethane	N.D.	1.	ug/kg	112		80-120		
Bromodichloromethane	N.D.	1.	ug/kg	97		75-120		
Bromoform	N.D.	1.	ug/kg	95		64-120		
Bromomethane	N.D.	2.	ug/kg	91		41-144		
2-Butanone	N.D.	4.	ug/kg	97		62-123		
n-Butylbenzene	N.D.	1.	ug/kg	89		72-120		
sec-Butylbenzene	N.D.	1.	ug/kg	92		69-120		
tert-Butylbenzene	N.D.	1.	ug/kg	90		75-120		
Carbon Disulfide	N.D.	1.	ug/kg	72		52-126		
Carbon Tetrachloride	N.D.	1.	ug/kg	90		69-130		
Chlorobenzene	N.D.	1.	ug/kg	99		80-120		
Chloroethane	N.D.	2.	ug/kg	83		38-142		
Chloroform	N.D.	1.	ug/kg	98		80-120		
Chloromethane	N.D.	2.	ug/kg	89		56-120		
2-Chlorotoluene	N.D.	1.	ug/kg	94		78-120		
4-Chlorotoluene	N.D.	1.	ug/kg	95		79-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	99		59-122		
Dibromochloromethane	N.D.	1.	ug/kg	97		77-120		
1,2-Dibromoethane	N.D.	1.	ug/kg	104		80-120		
Dibromomethane	N.D.	1.	ug/kg	103		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/kg	95		26-137		
1,1-Dichloroethane	N.D.	1.	ug/kg	90		77-120		
1,2-Dichloroethane	N.D.	1.	ug/kg	102		77-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	82		73-129		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	95		80-120		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	92		79-122		
1,2-Dichloropropane	N.D.	1.	ug/kg	99		76-120		
1,3-Dichloropropane	N.D.	1.	ug/kg	100		80-120		
2,2-Dichloropropane	N.D.	1.	ug/kg	90		72-123		
1,1-Dichloropropene	N.D.	1.	ug/kg	83		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	93		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	99		76-120		
Ethylbenzene	N.D.	1.	ug/kg	95		80-120		
2-Hexanone	N.D.	3.	ug/kg	100		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	94		76-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1570835

Reported: 06/29/2015 09:12

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
p-Isopropyltoluene	N.D.	1.	ug/kg	90		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	100		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	102		57-123		
Methylene Chloride	N.D.	2.	ug/kg	97		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	92		77-120		
Styrene	N.D.	1.	ug/kg	100		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	98		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	102		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	93		78-120		
Toluene	N.D.	1.	ug/kg	95		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	94		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	88		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104		80-120		
Trichloroethene	N.D.	1.	ug/kg	94		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	92		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	108		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	95		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	94		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	89		59-120		
m+p-Xylene	N.D.	1.	ug/kg	96		80-120		
o-Xylene	N.D.	1.	ug/kg	94		80-120		

Batch number: E151771AA

Sample number(s): 7938099

Acetone	N.D.	6.	ug/l	87	92	55-129	5	30
Benzene	N.D.	0.5	ug/l	93	96	78-120	3	30
Bromobenzene	N.D.	1.	ug/l	111	110	80-120	1	30
Bromochloromethane	N.D.	1.	ug/l	103	110	80-120	6	30
Bromodichloromethane	N.D.	0.5	ug/l	100	106	73-120	6	30
Bromoform	N.D.	0.5	ug/l	114	113	52-123	1	30
Bromomethane	N.D.	0.5	ug/l	91	93	53-130	2	30
2-Butanone	N.D.	3.	ug/l	80	84	54-133	5	30
n-Butylbenzene	N.D.	1.	ug/l	81	79	68-120	3	30
sec-Butylbenzene	N.D.	1.	ug/l	85	85	75-120	0	30
tert-Butylbenzene	N.D.	1.	ug/l	93	94	80-120	1	30
Carbon Disulfide	N.D.	1.	ug/l	86	87	58-126	1	30
Carbon Tetrachloride	N.D.	0.5	ug/l	105	106	74-130	1	30
Chlorobenzene	N.D.	0.5	ug/l	99	101	80-120	2	30
Chloroethane	N.D.	0.5	ug/l	79	82	56-120	4	30
Chloroform	N.D.	0.5	ug/l	100	103	80-120	2	30
Chloromethane	N.D.	0.5	ug/l	62*	64	63-120	3	30
2-Chlorotoluene	N.D.	1.	ug/l	95	99	80-120	4	30
4-Chlorotoluene	N.D.	1.	ug/l	99	104	80-120	5	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	92	96	56-120	4	30
Dibromochloromethane	N.D.	0.5	ug/l	108	109	72-120	0	30
1,2-Dibromoethane	N.D.	0.5	ug/l	105	108	80-120	3	30
Dibromomethane	N.D.	0.5	ug/l	100	111	80-120	10	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	72	74	55-127	2	30
1,1-Dichloroethane	N.D.	0.5	ug/l	88	91	80-120	3	30
1,2-Dichloroethane	N.D.	0.5	ug/l	106	113	72-127	6	30
1,1-Dichloroethene	N.D.	0.5	ug/l	99	100	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	99	103	80-120	5	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	ug/l	90	94	80-120	4	30
1,3-Dichloropropane	N.D.	0.5	ug/l	94	97	80-120	2	30
2,2-Dichloropropane	N.D.	0.5	ug/l	100	103	63-131	2	30
1,1-Dichloropropene	N.D.	1.	ug/l	93	96	80-126	3	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	95	100	80-120	4	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	96	101	76-120	4	30
Ethylbenzene	N.D.	0.5	ug/l	93	95	80-120	2	30
2-Hexanone	N.D.	3.	ug/l	78	80	50-131	3	30
Isopropylbenzene	N.D.	1.	ug/l	95	93	80-120	2	30
p-Isopropyltoluene	N.D.	1.	ug/l	85	86	76-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	103	108	75-120	5	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	80	83	51-124	4	30
Methylene Chloride	N.D.	2.	ug/l	95	98	80-120	3	30
n-Propylbenzene	N.D.	1.	ug/l	87	88	80-120	2	30
Styrene	N.D.	1.	ug/l	102	103	80-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	108	106	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	90	94	70-120	4	30
Tetrachloroethene	N.D.	0.5	ug/l	113	110	80-120	3	30
Toluene	N.D.	0.5	ug/l	95	96	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	107	104	69-120	3	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	100	103	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	100	102	80-120	2	30
Trichloroethene	N.D.	0.5	ug/l	99	102	80-120	3	30
Trichlorofluoromethane	N.D.	0.5	ug/l	104	105	58-135	2	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	111	110	76-120	1	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	94	95	80-120	1	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	91	93	80-120	2	30
Vinyl Chloride	N.D.	0.5	ug/l	80	79	69-120	1	30
m+p-Xylene	N.D.	0.5	ug/l	97	97	80-120	0	30
o-Xylene	N.D.	0.5	ug/l	99	101	80-120	2	30

Batch number: 15174SLA026

Sample number(s): 7938085-7938098

Acenaphthene	N.D.	3.	ug/kg	99		83-116		
Acenaphthylene	N.D.	3.	ug/kg	113		83-127		
Anthracene	N.D.	3.	ug/kg	104		82-118		
Benzidine	N.D.	700.	ug/kg	65		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	98		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	105		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	100		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	108		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	99		79-120		
Benzoic acid	N.D.	170.	ug/kg	83		41-122		
Benzyl alcohol	N.D.	170.	ug/kg	95		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	96		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	100		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	99		84-120		
Carbazole	N.D.	17.	ug/kg	103		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	88		79-127		
4-Chloroaniline	N.D.	33.	ug/kg	62		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	85		77-116		
bis(2-Chloroethyl)ether	N.D.	17.	ug/kg	87		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	105		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	105		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	97		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	91		70-119		
Chrysene	N.D.	3.	ug/kg	98		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	106		81-123		
Dibenzofuran	N.D.	17.	ug/kg	100		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	97		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	96		79-113		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,4-Dichlorobenzene	N.D.	17.	ug/kg	93		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	44		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	100		81-123		
Diethylphthalate	N.D.	67.	ug/kg	96		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	90		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	98		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	90		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	77		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	103		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	105		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	97		81-121		
Fluoranthene	N.D.	3.	ug/kg	98		81-117		
Fluorene	N.D.	3.	ug/kg	105		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	100		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	85		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	93		75-176		
Hexachloroethane	N.D.	33.	ug/kg	92		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	106		81-118		
Isophorone	N.D.	17.	ug/kg	85*		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	90		83-109		
2-Methylphenol	N.D.	17.	ug/kg	100		82-125		
4-Methylphenol	N.D.	17.	ug/kg	91		75-119		
Naphthalene	N.D.	3.	ug/kg	95		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	111		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	108		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	83		48-112		
Nitrobenzene	N.D.	17.	ug/kg	75*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	100		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	74		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	78		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	102		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	107		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	94		57-126		
Phenanthrene	N.D.	3.	ug/kg	102		80-114		
Phenol	N.D.	17.	ug/kg	89		75-117		
Pyrene	N.D.	3.	ug/kg	96		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	94		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	103		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	107		81-123		
Batch number: 151740024A	Sample number(s): 7938085-7938089							
PCB-1016	N.D.	3.6	ug/kg	102		76-121		
PCB-1221	N.D.	4.6	ug/kg					
PCB-1232	N.D.	8.0	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	4.9	ug/kg	111		80-140		
Total PCBs	N.D.	3.3	ug/kg					
Batch number: 151765708001	Sample number(s): 7938085-7938098							
Aluminum	N.D.	4.54	mg/kg	97		80-120		
Antimony	N.D.	0.330	mg/kg	105		80-120		
Arsenic	N.D.	0.640	mg/kg	104		80-120		
Barium	N.D.	0.0330	mg/kg	99		80-120		
Beryllium	N.D.	0.0670	mg/kg	102		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1570835

Reported: 06/29/2015 09:12

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Cadmium	N.D.	0.0330	mg/kg	100		80-120		
Calcium	N.D.	3.79	mg/kg	98		80-120		
Chromium	N.D.	0.110	mg/kg	98		80-120		
Cobalt	N.D.	0.0960	mg/kg	101		80-120		
Copper	0.403 J	0.330	mg/kg	102		80-120		
Iron	N.D.	3.34	mg/kg	94		80-120		
Lead	N.D.	0.500	mg/kg	102		80-120		
Magnesium	N.D.	1.67	mg/kg	96		80-120		
Manganese	N.D.	0.0830	mg/kg	98		80-120		
Nickel	N.D.	0.150	mg/kg	102		80-120		
Potassium	N.D.	13.0	mg/kg	96		80-120		
Selenium	N.D.	0.440	mg/kg	102		80-120		
Silver	N.D.	0.190	mg/kg	93		80-120		
Sodium	N.D.	16.7	mg/kg	97		80-120		
Thallium	N.D.	0.800	mg/kg	103		80-120		
Vanadium	N.D.	0.0910	mg/kg	99		80-120		
Zinc	0.266 J	0.260	mg/kg	100		80-120		

Batch number: 151765711002
Mercury

Sample number(s): 7938085-7938098
N.D. 0.0100 mg/kg 99

80-120

Batch number: 15176820010B
Moisture

Sample number(s): 7938085-7938098
100

99-101

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: A151761AA	Sample number(s): 7938086-7938090 UNSPK: P938100								
Acetone	116	116	31-195	2	30				
Benzene	98	102	55-143	5	30				
Bromobenzene	80	89	43-139	13	30				
Bromochloromethane	97	96	60-137	0	30				
Bromodichloromethane	82	87	53-136	7	30				
Bromoform	55	68	50-144	23	30				
Bromomethane	111	105	42-168	4	30				
2-Butanone	81	91	37-163	13	30				
n-Butylbenzene	91	94	30-146	5	30				
sec-Butylbenzene	125	133	33-157	8	30				
tert-Butylbenzene	136	152	41-152	13	30				
Carbon Disulfide	90	82	48-146	7	30				
Carbon Tetrachloride	113	114	51-165	3	30				
Chlorobenzene	82	83	49-135	3	30				
Chloroethane	103	99	39-152	3	30				
Chloroform	103	105	61-142	3	30				
Chloromethane	115	113	36-143	0	30				
2-Chlorotoluene	106	119	42-146	13	30				
4-Chlorotoluene	87	94	39-145	9	30				
1,2-Dibromo-3-chloropropane	56	79	34-165	37*	30				
Dibromochloromethane	77	86	51-128	13	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,2-Dibromoethane	67	74	54-129	12	30				
Dibromomethane	68	73	57-130	9	30				
Dichlorodifluoromethane	134	127	26-151	3	30				
1,1-Dichloroethane	105	106	63-142	3	30				
1,2-Dichloroethane	86	88	54-143	4	30				
1,1-Dichloroethene	110	105	61-149	3	30				
cis-1,2-Dichloroethene	94	92	67-135	0	30				
trans-1,2-Dichloroethene	101	92	64-144	7	30				
1,2-Dichloropropane	94	100	54-144	8	30				
1,3-Dichloropropane	82	89	51-140	10	30				
2,2-Dichloropropane	114	115	53-147	3	30				
1,1-Dichloropropene	94	90	54-145	3	30				
cis-1,3-Dichloropropene	60	63	45-137	7	30				
trans-1,3-Dichloropropene	62	63	51-134	3	30				
Ethylbenzene	96	99	44-141	4	30				
2-Hexanone	60	79	32-160	29	30				
Isopropylbenzene	96	99	38-144	5	30				
p-Isopropyltoluene	111	119	29-152	9	30				
Methyl Tertiary Butyl Ether	99	110	55-129	12	30				
4-Methyl-2-pentanone	63	82	46-139	28	30				
Methylene Chloride	106	104	60-149	0	30				
n-Propylbenzene	116	126	39-157	9	30				
Styrene	68	69	35-134	4	30				
1,1,1,2-Tetrachloroethane	106	115	55-139	10	30				
1,1,2,2-Tetrachloroethane	106	135	29-182	26	30				
Tetrachloroethene	112	109	42-149	1	30				
Toluene	107	111	50-146	5	30				
1,2,3-Trichlorobenzene	29	32	10-140	11	30				
1,1,1-Trichloroethane	111	113	52-146	3	30				
1,1,2-Trichloroethane	92	105	58-152	14	30				
Trichloroethene	91	89	53-144	1	30				
Trichlorofluoromethane	120	115	47-163	3	30				
1,2,3-Trichloropropane	102	136	36-180	31*	30				
1,2,4-Trimethylbenzene	107	122	37-149	15	30				
1,3,5-Trimethylbenzene	123	140	38-150	14	30				
Vinyl Chloride	116	109	50-154	5	30				
m-p-Xylene	95	99	44-137	6	30				
o-Xylene	89	99	42-137	12	30				

Batch number: A151764AA	Sample number(s): 7938085,7938091-7938098 UNSPK: P938117
Acetone	85 113 31-195 26 30
Benzene	90 91 55-143 0 30
Bromobenzene	89 92 43-139 1 30
Bromochloromethane	104 105 60-137 0 30
Bromodichloromethane	86 90 53-136 3 30
Bromoform	70 77 50-144 8 30
Bromomethane	99 89 42-168 12 30
2-Butanone	67 81 37-163 18 30
n-Butylbenzene	75 67 30-146 12 30
sec-Butylbenzene	86 79 33-157 9 30
tert-Butylbenzene	88 83 41-152 7 30
Carbon Disulfide	77 74 48-146 5 30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Carbon Tetrachloride	93	94	51-165	1	30				
Chlorobenzene	89	89	49-135	2	30				
Chloroethane	94	87	39-152	10	30				
Chloroform	95	96	61-142	1	30				
Chloromethane	100	97	36-143	4	30				
2-Chlorotoluene	89	88	42-146	2	30				
4-Chlorotoluene	87	85	39-145	3	30				
1,2-Dibromo-3-chloropropane	65	77	34-165	16	30				
Dibromochloromethane	82	86	51-128	3	30				
1,2-Dibromoethane	84	92	54-129	8	30				
Dibromomethane	85	91	57-130	5	30				
Dichlorodifluoromethane	114	106	26-151	9	30				
1,1-Dichloroethane	90	92	63-142	1	30				
1,2-Dichloroethane	89	95	54-143	5	30				
1,1-Dichloroethene	88	89	61-149	0	30				
cis-1,2-Dichloroethene	92	95	67-135	2	30				
trans-1,2-Dichloroethene	94	94	64-144	1	30				
1,2-Dichloropropane	91	95	54-144	2	30				
1,3-Dichloropropane	85	92	51-140	7	30				
2,2-Dichloropropane	93	96	53-147	1	30				
1,1-Dichloropropene	87	86	54-145	2	30				
cis-1,3-Dichloropropene	78	80	45-137	2	30				
trans-1,3-Dichloropropene	83	87	51-134	4	30				
Ethylbenzene	89	85	44-141	6	30				
2-Hexanone	66	81	32-160	19	30				
Isopropylbenzene	85	80	38-144	7	30				
p-Isopropyltoluene	80	75	29-152	9	30				
Methyl Tertiary Butyl Ether	79	91	55-129	13	30				
4-Methyl-2-pentanone	69	84	46-139	18	30				
Methylene Chloride	92	95	60-149	2	30				
n-Propylbenzene	90	86	39-157	5	30				
Styrene	84	82	35-134	4	30				
1,1,1,2-Tetrachloroethane	88	91	55-139	2	30				
1,1,2,2-Tetrachloroethane	85	98	29-182	13	30				
Tetrachloroethene	95	94	42-149	3	30				
Toluene	93	93	50-146	2	30				
1,2,3-Trichlorobenzene	42	44	10-140	3	30				
1,1,1-Trichloroethane	90	91	52-146	0	30				
1,1,2-Trichloroethane	87	94	58-152	6	30				
Trichloroethene	91	90	53-144	2	30				
Trichlorofluoromethane	106	99	47-163	9	30				
1,2,3-Trichloropropane	91	104	36-180	11	30				
1,2,4-Trimethylbenzene	86	86	37-149	2	30				
1,3,5-Trimethylbenzene	88	87	38-150	3	30				
Vinyl Chloride	105	99	50-154	8	30				
m-p-Xylene	89	85	44-137	6	30				
o-Xylene	84	83	42-137	2	30				
Batch number: E151771AA	Sample number(s): 7938099	UNSPK: P938077							
Acetone	97	94	35-144	3	30				
Benzene	108	105	72-134	2	30				
Bromobenzene	123*	119*	82-115	3	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Bromochloromethane	119	121	76-134	1	30				
Bromodichloromethane	112	112	73-125	0	30				
Bromoform	117	120*	48-118	3	30				
Bromomethane	119	122	47-129	3	30				
2-Butanone	89	83	44-135	7	30				
n-Butylbenzene	89	88	74-134	1	30				
sec-Butylbenzene	95	94	74-137	1	30				
tert-Butylbenzene	101	103	81-121	2	30				
Carbon Disulfide	99	98	53-149	1	30				
Carbon Tetrachloride	121	120	75-148	1	30				
Chlorobenzene	110	111	87-124	1	30				
Chloroethane	103	104	55-130	1	30				
Chloroform	115	115	81-134	0	30				
Chloromethane	98	96	61-125	2	30				
2-Chlorotoluene	107	108	82-118	0	30				
4-Chlorotoluene	111	111	84-122	0	30				
1,2-Dibromo-3-chloropropane	96	92	50-123	4	30				
Dibromochloromethane	116	117*	74-116	0	30				
1,2-Dibromoethane	116	114	77-116	2	30				
Dibromomethane	116	113	83-119	2	30				
Dichlorodifluoromethane	149	144	58-156	3	30				
1,1-Dichloroethane	101	99	84-129	2	30				
1,2-Dichloroethane	119	118	63-142	1	30				
1,1-Dichloroethene	118	112	79-137	5	30				
cis-1,2-Dichloroethene	110	112	80-141	2	30				
trans-1,2-Dichloroethene	117	115	86-131	2	30				
1,2-Dichloropropane	100	99	83-124	1	30				
1,3-Dichloropropane	101	101	81-120	0	30				
2,2-Dichloropropane	115	113	69-135	2	30				
1,1-Dichloropropene	110	105	86-137	4	30				
cis-1,3-Dichloropropene	106	105	70-116	0	30				
trans-1,3-Dichloropropene	106	103	74-119	2	30				
Ethylbenzene	106	106	71-134	0	30				
2-Hexanone	82	79	38-131	4	30				
Isopropylbenzene	105	108	75-128	2	30				
p-Isopropyltoluene	96	97	76-123	0	30				
Methyl Tertiary Butyl Ether	114	114	72-126	0	30				
4-Methyl-2-pentanone	87	84	45-128	3	30				
Methylene Chloride	110	109	78-133	0	30				
n-Propylbenzene	98	97	74-134	1	30				
Styrene	112	114	78-125	2	30				
1,1,1,2-Tetrachloroethane	118	118	80-123	0	30				
1,1,1,2,2-Tetrachloroethane	98	93	72-128	5	30				
Tetrachloroethene	127	131*	80-128	3	30				
Toluene	106	108	80-125	2	30				
1,2,3-Trichlorobenzene	108	115	62-133	6	30				
1,1,1-Trichloroethane	117	113	69-140	3	30				
1,1,2-Trichloroethane	106	108	71-141	1	30				
Trichloroethene	115	113	88-133	2	30				
Trichlorofluoromethane	135	137	63-163	2	30				
1,2,3-Trichloropropane	121*	120*	76-118	1	30				
1,2,4-Trimethylbenzene	104	102	72-130	2	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
1,3,5-Trimethylbenzene	103	102	65-132	0	30			
Vinyl Chloride	114	112	66-133	2	30			
m+p-Xylene	108	109	79-125	0	30			
o-Xylene	110	110	79-125	0	30			

Batch number: 15174SLA026 Sample number(s): 7938085-7938098 UNSPK: P938100

Acenaphthene	53	79	45-141	38*	30			
Acenaphthylene	63	80	53-143	23	30			
Anthracene	54	71	42-147	25	30			
Benizidine	0*	0*	35-141	0	30			
Benzo(a)anthracene	42	54	32-150	19	30			
Benzo(a)pyrene	42	63	36-151	30	30			
Benzo(b)fluoranthene	38	58	29-150	29	30			
Benzo(g,h,i)perylene	49	69	41-147	27	30			
Benzo(k)fluoranthene	47	60	35-146	22	30			
Benzoic acid	25	36	23-170	34*	30			
Benzyl alcohol	59*	76	74-123	24	30			
4-Bromophenyl-phenylether	56	77	48-146	32*	30			
Butylbenzylphthalate	64	76	50-137	17	30			
Di-n-butylphthalate	58*	67	65-126	14	30			
Carbazole	57	68	36-143	18	30			
4-Chloro-3-methylphenol	48	60	48-141	22	30			
4-Chloroaniline	37	37	10-100	1	30			
bis(2-Chloroethoxy)methane	49*	68	64-119	33*	30			
bis(2-Chloroethyl)ether	48*	74	63-122	42*	30			
2-Chloronaphthalene	44	82	40-156	61*	30			
2-Chlorophenol	62	89	50-142	36*	30			
4-Chlorophenyl-phenylether	54	71	49-135	27	30			
2,2'-oxybis(1-Chloropropane)	57*	80	60-120	34*	30			
Chrysene	36	55	28-146	26	30			
Dibenz(a,h)anthracene	54	70	38-156	23	30			
Dibenzofuran	57	76	34-146	30	30			
1,2-Dichlorobenzene	57	88	51-130	43*	30			
1,3-Dichlorobenzene	56	82	51-125	37*	30			
1,4-Dichlorobenzene	54	80	50-127	38*	30			
3,3'-Dichlorobenzidine	35	37	10-143	4	30			
2,4-Dichlorophenol	57	69	46-145	19	30			
Diethylphthalate	50*	64	61-124	24	30			
2,4-Dimethylphenol	52	68	38-140	28	30			
Dimethylphthalate	54*	65	59-124	19	30			
4,6-Dinitro-2-methylphenol	0*	0*	10-148	0	30			
2,4-Dinitrophenol	0*	0*	20-143	0	30			
2,4-Dinitrotoluene	47	58	37-149	20	30			
2,6-Dinitrotoluene	49*	67	54-134	31*	30			
bis(2-Ethylhexyl)phthalate	59*	79	60-133	30	30			
Fluoranthene	30*	42	41-135	19	30			
Fluorene	53	74	43-146	32*	30			
Hexachlorobenzene	57	80	36-150	33*	30			
Hexachlorobutadiene	44*	71	65-125	47*	30			
Hexachlorocyclopentadiene	0*	0*	10-153	0	30			
Hexachloroethane	47	62	37-143	27	30			
Indeno(1,2,3-cd)pyrene	47	67	35-151	31*	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	47*	62*	68-119	29	30			
2-Methylnaphthalene	51	68	39-140	24	30			
2-Methylphenol	58	78	36-149	29	30			
4-Methylphenol	53	66	46-135	22	30			
Naphthalene	53	79	39-147	36*	30			
2-Nitroaniline	54	76	46-152	34*	30			
3-Nitroaniline	53	63	31-145	17	30			
4-Nitroaniline	58	68	30-131	16	30			
Nitrobenzene	46*	58	54-131	23	30			
2-Nitrophenol	49	64	38-150	26	30			
4-Nitrophenol	0*	0*	25-142	0	30			
N-Nitroso-di-n-propylamine	46*	68	58-126	38*	30			
N-Nitrosodiphenylamine	62	78	41-147	23	30			
Di-n-octylphthalate	57	75	53-156	27	30			
Pentachlorophenol	41	50	23-145	20	30			
Phenanthrene	39*	57	42-141	26	30			
Phenol	2*	16*	53-129	19	30			
Pyrene	36*	52	37-140	24	30			
1,2,4-Trichlorobenzene	56	78	45-139	32*	30			
2,4,5-Trichlorophenol	52	70	42-144	31*	30			
2,4,6-Trichlorophenol	55	70	43-145	24	30			

Batch number: 151740024A

Sample number(s): 7938085-7938089 UNSPK: 7938085

PCB-1016	78	76	41-135	3	50			
PCB-1260	74	73	38-148	1	50			

Batch number: 151765708001

Sample number(s): 7938085-7938098 UNSPK: P938100 BKG: P938100

Aluminum	482 (2)	320 (2)	75-125	14	20	1,550	1,820	16	20
Antimony	103	102	75-125	1	20	1.46 J	1.55 J	6 (1)	20
Arsenic	102	103	75-125	1	20	1.58 J	1.51 J	4 (1)	20
Barium	101	98	75-125	3	20	19.4	24.8	24*	20
Beryllium	103	102	75-125	1	20	0.168 J	0.192 J	13 (1)	20
Cadmium	97	97	75-125	0	20	0.181 J	0.180 J	1 (1)	20
Calcium	-103 (2)	-1240 (2)	75-125	62*	20	9,960	12,200	20	20
Chromium	109	100	75-125	5	20	11.3	10.1	11	20
Cobalt	98	97	75-125	0	20	1.47	1.68	14 (1)	20
Copper	101	120	75-125	13	20	10.3	26.2	87*	20
Iron	1602 (2)	2008 (2)	75-125	4	20	8,050	8,550	6	20
Lead	158*	255*	75-125	21*	20	38.4	32.7	16	20
Magnesium	-73 (2)	-1282 (2)	75-125	61*	20	5,280	6,780	25*	20
Manganese	298*	9*	75-125	61*	20	159	159	0	20
Nickel	98	101	75-125	3	20	6.05	6.71	10	20
Potassium	111	107	75-125	3	20	266	291	9	20
Selenium	105	108	75-125	3	20	0.986 J	1.37 J	33* (1)	20
Silver	91	91	75-125	0	20	N.D.	N.D.	0 (1)	20
Sodium	99	97	75-125	2	20	40.3 J	36.0 J	11 (1)	20
Thallium	100	101	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	99	98	75-125	1	20	5.09	5.82	13	20
Zinc	102	104	75-125	1	20	30.4	35.6	16	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151765711002 Mercury	80	77*	80-120	4	20	0.0725 J	0.0297 J	84* (1)	20
Batch number: 15176820010B Moisture						18.3	16.9	8*	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: A151761AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7938086	49*	115	97	92
7938087	48*	107	98	91
7938088	48*	111	97	92
7938089	43*	107	98	93
7938090	54	108	100	88
Blank	107	113	98	92
LCS	102	105	101	100
LCSD	102	107	102	99
MS	102	96	119	84
MSD	103	101	120	83
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: A151764AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7938085	46*	107	96	91
7938091	41*	108	99	93
7938092	46*	111	98	94
7938093	44*	111	98	92
7938094	36*	110	99	92
7938095	71	109	98	94
7938096	51	109	98	95
7938097	76	110	98	92
7938098	63	110	98	94
Blank	106	106	97	91
LCS	103	104	101	100
MS	104	102	105	96
MSD	103	105	105	96
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: E151771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
--	----------------------	-----------------------	------------	----------------------

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/29/2015 09:12

Group Number: 1570835

Surrogate Quality Control

7938099	102	102	93	92
Blank	103	101	94	92
LCS	103	96	94	93
LCSD	106	101	94	92
MS	106	101	93	91
MSD	107	101	94	93
Limits:	80-116	77-113	80-113	78-113

Analysis Name: SVOA 8270D (microwave)
Batch number: 15174SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7938085	55*	0*	28*	72	95	93
7938086	55*	27*	19*	75	92	95
7938087	37*	10*	12*	73	93	95
7938088	47*	16*	6*	75	94	94
7938089	54*	19*	16*	73	96	94
7938090	55*	19*	6*	72	94	91
7938091	30*	1*	1*	66	88	82
7938092	44*	12*	6*	73	92	95
7938093	51*	19*	10*	74	93	95
7938094	52*	15*	22*	72	93	93
7938095	70	24*	16*	72	95	91
7938096	42*	12*	4*	71	92	92
7938097	66	33*	12*	73	95	93
7938098	56*	16*	14*	74	92	95
Blank	85	95	108	78	99	107
LCS	89	101	99	75	94	99
MS	51*	53*	44	42*	53*	55*
MSD	65	74	61	59	78	71
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

Analysis Name: PCBs in Soil (microwave)
Batch number: 151740024A

	Tetrachloro-m-xylene	Decachlorobiphenyl
7938085	88	69
7938086	85	72
7938087	94	71
7938088	94	79
7938089	85	77
Blank	113	102
LCS	114	104
MS	96	74
MSD	90	74
Limits:	50-148	43-155

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

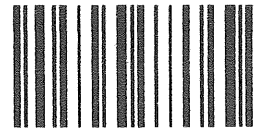


Lancaster Laboratories Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1570835 Sample # 7938065-99
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only														
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Correct</u>	<input type="checkbox"/> Soil <input type="checkbox"/> Other:	Preservation Codes				FSC: _____																
Project Name/#: <u>CHR8A17</u>		PWSID #:				Total # of Containers VOCs <u>8260D</u> SVOCs <u>8270D</u> TAL Metals <u>+HS</u> PCBs					SCR#: <u>173475</u>															
Project Manager: <u>Dave Kulczycki</u>		P.O. #:									Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other															
Sampler: <u>Various</u>		Quote #:									6 Remarks															
Name of state where samples were collected:																										
2 Sample Identification			3 Collected		Grab <input type="checkbox"/> Composite <input type="checkbox"/>	Soil <input type="checkbox"/> Water <input type="checkbox"/> Other:	Total # of Containers	VOCs SVOCs TAL Metals PCBs	VOCs SVOCs TAL Metals PCBs	VOCs SVOCs TAL Metals PCBs	VOCs SVOCs TAL Metals PCBs	VOCs SVOCs TAL Metals PCBs	VOCs SVOCs TAL Metals PCBs	VOCs SVOCs TAL Metals PCBs												
		Date	Time	Grab											Composite											
<u>VP-CS-SWMU4-C2</u>		<u>6/19/15</u>	<u>0830</u>	<input checked="" type="checkbox"/>														<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<u>VP-CS-SWMU4-C1</u>		<u>6/19/15</u>	<u>0825</u>																<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
<u>VP-CS-SWMU4-C3</u>		<u>6/19/15</u>	<u>0855</u>																			<input checked="" type="checkbox"/>				
<u>VP-CS-SWMU5-C1</u>		<u>6/19/15</u>	<u>0815</u>																			<input checked="" type="checkbox"/>				
<u>VP-CS-SWMU5-C2</u>		<u>6/19/15</u>	<u>0820</u>																			<input checked="" type="checkbox"/>				
<u>PLA-CS-George Building-B6</u>		<u>6/19/15</u>	<u>1200</u>																							
<u>PLA-CS-George Building-C3</u>		<u>6/19/15</u>	<u>1105</u>																							
<u>PLA-CS-George Building-B4</u>		<u>6/19/15</u>	<u>1115</u>																							
<u>PLA-CS-George Building-CB</u>		<u>6/19/15</u>	<u>1200</u>																							
<u>PLA-CS-George Building-B5</u>		<u>6/19/15</u>	<u>1430</u>																							
7 Turnaround Time (TAT) Requested (please circle) Standard _____ Rush <u>5</u> by TAT (Rush TAT is subject to laboratory approval and surcharge.) Date results are needed: _____ E-mail address: <u>dkulczycki@geosyntec.com</u>				Relinquished by <u>[Signature]</u>		Date <u>6/17/15</u>	Time <u>12:18</u>	Received by <u>[Signature]</u>		Date <u>19 Jun</u>	Time _____															
				Relinquished by <u>[Signature]</u>		Date <u>19 Jun 15</u>	Time <u>16:20</u>	Received by <u>[Signature]</u>		Date <u>6/19/15</u>	Time <u>17:15</u>															
				Relinquished by <u>[Signature]</u>		Date <u>6/19/15</u>	Time <u>17:20</u>	Received by _____		Date _____	Time _____															
				Relinquished by _____		Date _____	Time _____	Received by _____		Date _____	Time _____															
				Relinquished by _____		Date _____	Time _____	Received by <u>[Signature]</u>		Date <u>6/24/15</u>	Time <u>8:35</u>															
8 Data Package Options (circle if required) Type I (EPA Level 3 Equivalent/non-CLP) <u>Level 4</u> Type VI (Raw Data Only) Type III (Reduced non-CLP) TX TRRP-13 NYSDEC Category A or B MA MCP CT RCP				EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, format: _____				Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____																		
				Site-Specific QC (MS/MSD/Dup)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If yes, indicate QC sample and submit triplicate sample volume.)				Temperature upon receipt <u>935</u> °C																		

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1570835 Sample # 7938085-99
Instructions on reverse side correspond with circled numbers.

364936

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only	
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Concrete</u>	<input type="checkbox"/> Soil <input type="checkbox"/> Other:	Total # of Containers <u>VOCs 8260D</u> <u>SVOCs 8270D</u> <u>TAL Metals</u> <u>PCBs</u>	Preservation Codes				FSC: _____		
Project Name/ #: <u>CHR8417</u>		PWSID #:									SCR#: _____		
Project Manager: <u>Dave Kulczyk</u>		P.O. #:									Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other		
Sampler: <u>Various</u>		Quote #:									6 Remarks		
Name of state where samples were collected: <u>IN</u>													
2 Sample Identification		3 Collected		<input type="checkbox"/> Grab <input type="checkbox"/> Composite	<input type="checkbox"/> Soil <input type="checkbox"/> Other:	Total # of Containers							
		Date	Time										
<u>PLA-CS-George Building-D7</u>		<u>6/19/15</u>	<u>1455</u>	<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<u>PLA-CS-George Building-C7</u>		<u>↓</u>	<u>1450</u>	<input type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<u>PLA-CS-George Building-B7</u>		<u>↓</u>	<u>1445</u>	<input type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<u>PLA-CS-George Building-C6</u>		<u>↓</u>	<u>1440</u>	<input type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
<u>TB-061915-UC1</u>		<u>6/19/15</u>	<u>1555</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>2</u>	<input checked="" type="checkbox"/>						
IS 19 Jun 2015													
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by _____		Date	Time	Received by _____		Date	Time	<input checked="" type="checkbox"/> 9	
Standard (Rush TAT is subject to laboratory approval and surcharge.)				<input checked="" type="checkbox"/> Rush <u>5 day TAT</u>		<u>19 Jun 15</u>	<u>16:30</u>			<u>6/19/15</u>	<u>17:15</u>		
Date results are needed: _____				Relinquished by _____		<u>6/19/15</u>	<u>17:20</u>						
E-mail address: <u>dkulczyk@geosyntec.com</u>				Relinquished by _____									
				Relinquished by _____									
8 Data Package Options (circle if required)				Relinquished by _____		Date	Time	Received by _____		Date	Time		
<input checked="" type="checkbox"/> Type I (Validation/non-CLP) <u>Level 4</u>		<input type="checkbox"/> Type VI (Raw Data Only)		Relinquished by _____						<u>6/24/15</u>	<u>0935</u>		
<input type="checkbox"/> Type III (Reduced non-CLP)		<input type="checkbox"/> TX TRRP-13		EDD Required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, format: _____		Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____							
<input type="checkbox"/> Type IV (CLP SOW)		<input type="checkbox"/> MA MCP <input type="checkbox"/> CT RCP		Site-Specific QC (MS/MSD/Dup)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, indicate QC sample and submit triplicate sample volume.)		Temperature upon receipt <u>2.3</u> °C							

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

June 30, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/20/2015

Group Number: 1570838

SDG: NWP14

PO Number: 201506111740

State of Sample Origin: IN

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
VP-S-AOC13-SB12-8-10 Grab Soil	7938116
VP-S-AOC13-SB11-0-1 Grab Soil	7938117
VP-S-AOC13-SB11-0-1 MS Grab Soil	7938118
VP-S-AOC13-SB11-0-1 MSD Grab Soil	7938119
VP-S-AOC13-SB11-0-1 DUP Grab Soil	7938120
VP-S-AOC13-SB11-3-4 Grab Soil	7938121
VP-S-AOC13-SB12-16-18 Grab Soil	7938122
VP-S-SWMU4-SB31-0-1 Grab Soil	7938123
VP-S-SWMU4-SB31-3-4 Grab Soil	7938124
VP-S-SWMU4-SB31-9-10 Grab Soil	7938125
PLA-S-GP-SB03-0-1 Grab Soil	7938126
PLA-S-GP-SB03-3-4 Grab Soil	7938127
PLA-S-GP-SB02-0-1 Grab Soil	7938128
PLA-S-GP-SB02-4.5-5.5 Grab Soil	7938129
PLA-S-ROAD-SB10-0-1 Grab Soil	7938130
PLA-S-ROAD-SB10-4-5 Grab Soil	7938131
PLA-S-GP-SB01-0-1 Grab Soil	7938132
PLA-S-GP-SB01-4-5 Grab Soil	7938133
DUP-061915-001 Grab Soil	7938134
TB-061915-S1 Methanol	7938135

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: VP-S-AOC13-SB12-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938116
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1401 SDG#: NWP14-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	270	33.69
10237	Benzene	71-43-2	N.D.	19	33.69
10237	Bromobenzene	108-86-1	N.D.	39	33.69
10237	Bromochloromethane	74-97-5	N.D.	39	33.69
10237	Bromodichloromethane	75-27-4	N.D.	39	33.69
10237	Bromoform	75-25-2	N.D.	39	33.69
10237	Bromomethane	74-83-9	N.D.	78	33.69
10237	2-Butanone	78-93-3	N.D.	160	33.69
10237	n-Butylbenzene	104-51-8	1,400	39	33.69
10237	sec-Butylbenzene	135-98-8	1,900	39	33.69
10237	tert-Butylbenzene	98-06-6	150	39	33.69
10237	Carbon Disulfide	75-15-0	N.D.	39	33.69
10237	Carbon Tetrachloride	56-23-5	N.D.	39	33.69
10237	Chlorobenzene	108-90-7	N.D.	39	33.69
10237	Chloroethane	75-00-3	N.D.	78	33.69
10237	Chloroform	67-66-3	N.D.	39	33.69
10237	Chloromethane	74-87-3	N.D.	78	33.69
10237	2-Chlorotoluene	95-49-8	N.D.	39	33.69
10237	4-Chlorotoluene	106-43-4	N.D.	39	33.69
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	78	33.69
10237	Dibromochloromethane	124-48-1	N.D.	39	33.69
10237	1,2-Dibromoethane	106-93-4	N.D.	39	33.69
10237	Dibromomethane	74-95-3	N.D.	39	33.69
10237	Dichlorodifluoromethane	75-71-8	N.D.	78	33.69
10237	1,1-Dichloroethane	75-34-3	N.D.	39	33.69
10237	1,2-Dichloroethane	107-06-2	N.D.	39	33.69
10237	1,1-Dichloroethene	75-35-4	N.D.	39	33.69
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	39	33.69
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	39	33.69
10237	1,2-Dichloropropane	78-87-5	N.D.	39	33.69
10237	1,3-Dichloropropane	142-28-9	N.D.	39	33.69
10237	2,2-Dichloropropane	594-20-7	N.D.	39	33.69
10237	1,1-Dichloropropene	563-58-6	N.D.	39	33.69
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	39	33.69
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	39	33.69
10237	Ethylbenzene	100-41-4	N.D.	39	33.69
10237	2-Hexanone	591-78-6	N.D.	120	33.69
10237	Isopropylbenzene	98-82-8	3,000	39	33.69
10237	p-Isopropyltoluene	99-87-6	N.D.	39	33.69
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	19	33.69
10237	4-Methyl-2-pentanone	108-10-1	N.D.	120	33.69
10237	Methylene Chloride	75-09-2	N.D.	78	33.69
10237	n-Propylbenzene	103-65-1	160	39	33.69
10237	Styrene	100-42-5	N.D.	39	33.69
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	39	33.69
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	39	33.69
10237	Tetrachloroethene	127-18-4	N.D.	39	33.69
10237	Toluene	108-88-3	N.D.	39	33.69
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	39	33.69
10237	1,1,1-Trichloroethane	71-55-6	N.D.	39	33.69

Sample Description: VP-S-AOC13-SB12-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938116
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1401 SDG#: NWP14-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	39	33.69
10237	Trichloroethene	79-01-6	N.D.	39	33.69
10237	Trichlorofluoromethane	75-69-4	N.D.	78	33.69
10237	1,2,3-Trichloropropane	96-18-4	N.D.	39	33.69
10237	1,2,4-Trimethylbenzene	95-63-6	41 J	39	33.69
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	39	33.69
10237	Vinyl Chloride	75-01-4	N.D.	39	33.69
10237	m+p-Xylene	179601-23-1	N.D.	39	33.69
10237	o-Xylene	95-47-6	N.D.	39	33.69
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	510	38	10
10726	Acenaphthylene	208-96-8	N.D.	38	10
10726	Anthracene	120-12-7	440	38	10
10726	Benzidine	92-87-5	N.D.	8,000	10
10726	Benzo(a)anthracene	56-55-3	2,000	38	10
10726	Benzo(a)pyrene	50-32-8	1,500	38	10
10726	Benzo(b)fluoranthene	205-99-2	1,100	38	10
10726	Benzo(g,h,i)perylene	191-24-2	850	38	10
10726	Benzo(k)fluoranthene	207-08-9	320	38	10
10726	Benzoic acid	65-85-0	N.D.	1,900	10
10726	Benzyl alcohol	100-51-6	N.D.	1,900	10
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	190	10
10726	Butylbenzylphthalate	85-68-7	N.D.	760	10
10726	Di-n-butylphthalate	84-74-2	N.D.	760	10
10726	Carbazole	86-74-8	N.D.	190	10
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	190	10
10726	4-Chloroaniline	106-47-8	N.D.	380	10
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	190	10
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	190	10
10726	2-Chloronaphthalene	91-58-7	N.D.	80	10
10726	2-Chlorophenol	95-57-8	N.D.	190	10
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	190	10
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	190	10
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	3,800	38	10
10726	Dibenz(a,h)anthracene	53-70-3	260	38	10
10726	Dibenzofuran	132-64-9	320 J	190	10
10726	1,2-Dichlorobenzene	95-50-1	N.D.	190	10
10726	1,3-Dichlorobenzene	541-73-1	N.D.	190	10
10726	1,4-Dichlorobenzene	106-46-7	N.D.	190	10
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	1,100	10
10726	2,4-Dichlorophenol	120-83-2	N.D.	190	10
10726	Diethylphthalate	84-66-2	N.D.	760	10
10726	2,4-Dimethylphenol	105-67-9	N.D.	190	10
10726	Dimethylphthalate	131-11-3	N.D.	760	10
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	1,900	10

Sample Description: VP-S-AOC13-SB12-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938116
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1401 SDG#: NWP14-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	3,400	10
10726	2,4-Dinitrotoluene	121-14-2	N.D.	760	10
10726	2,6-Dinitrotoluene	606-20-2	N.D.	190	10
10726	bis(2-Ethylhexyl)phthalate	117-81-7	990 J	760	10
10726	Fluoranthene	206-44-0	1,100	38	10
10726	Fluorene	86-73-7	480	38	10
10726	Hexachlorobenzene	118-74-1	N.D.	38	10
10726	Hexachlorobutadiene	87-68-3	N.D.	190	10
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	1,900	10
10726	Hexachloroethane	67-72-1	N.D.	380	10
10726	Indeno(1,2,3-cd)pyrene	193-39-5	580	38	10
10726	Isophorone	78-59-1	N.D.	190	10
10726	2-Methylnaphthalene	91-57-6	130 J	38	10
10726	2-Methylphenol	95-48-7	N.D.	190	10
10726	4-Methylphenol	106-44-5	N.D.	190	10
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	530	38	10
10726	2-Nitroaniline	88-74-4	N.D.	190	10
10726	3-Nitroaniline	99-09-2	N.D.	760	10
10726	4-Nitroaniline	100-01-6	N.D.	760	10
10726	Nitrobenzene	98-95-3	N.D.	190	10
10726	2-Nitrophenol	88-75-5	N.D.	190	10
10726	4-Nitrophenol	100-02-7	N.D.	1,900	10
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	190	10
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	190	10
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	760	10
10726	Pentachlorophenol	87-86-5	N.D.	380	10
10726	Phenanthrene	85-01-8	1,800	38	10
10726	Phenol	108-95-2	N.D.	190	10
10726	Pyrene	129-00-0	2,700	38	10
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	190	10
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	190	10
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	190	10

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.1	1
10736	PCB-1221	11104-28-2	N.D.	5.3	1
10736	PCB-1232	11141-16-5	N.D.	9.2	1
10736	PCB-1242	53469-21-9	N.D.	3.8	1
10736	PCB-1248	12672-29-6	32 P	3.8	1

Sample Description: VP-S-AOC13-SB12-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938116
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1401 SDG#: NWP14-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1254	11097-69-1	17 J	3.8	1
10736	PCB-1260	11096-82-5	15 J	5.6	1
10736	Total PCBs	1336-36-3	64	3.8	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,980	5.10	1
06944	Antimony	7440-36-0	10.3	0.371	1
06935	Arsenic	7440-38-2	4.81	0.719	1
06946	Barium	7440-39-3	88.6	0.0371	1
06947	Beryllium	7440-41-7	1.03	0.0753	1
06949	Cadmium	7440-43-9	0.483 J	0.0371	1
01650	Calcium	7440-70-2	67,200	21.3	5
06951	Chromium	7440-47-3	65.5	0.124	1
06952	Cobalt	7440-48-4	8.26	0.108	1
06953	Copper	7440-50-8	25.7	0.371	1
01654	Iron	7439-89-6	22,900	3.75	1
06955	Lead	7439-92-1	304	0.562	1
01657	Magnesium	7439-95-4	28,500	1.88	1
06958	Manganese	7439-96-5	745	0.0933	1
06961	Nickel	7440-02-0	14.7	0.169	1
01662	Potassium	7440-09-7	698	14.6	1
06936	Selenium	7782-49-2	3.82	0.494	1
06966	Silver	7440-22-4	N.D.	0.214	1
01667	Sodium	7440-23-5	231	18.8	1
06925	Thallium	7440-28-0	N.D.	0.899	1
06971	Vanadium	7440-62-2	11.3	0.102	1
06972	Zinc	7440-66-6	149	0.292	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0739 J	0.0111	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	13.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q151771AA	06/26/2015 17:57	Anita M Dale	33.69

Sample Description: VP-S-AOC13-SB12-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938116
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1401 SDG#: NWP14-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 16:55	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 16:55	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/18/2015 16:35	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 12:10	Linda M Hartenstine	10
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/27/2015 11:50	Monica M Souders	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 20:27	Katlin N Cataldi	5
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:21	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:23	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-AOC13-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938117
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.85
10237	Benzene	71-43-2	N.D.	0.5	0.85
10237	Bromobenzene	108-86-1	N.D.	1	0.85
10237	Bromochloromethane	74-97-5	N.D.	1	0.85
10237	Bromodichloromethane	75-27-4	N.D.	1	0.85
10237	Bromoform	75-25-2	N.D.	1	0.85
10237	Bromomethane	74-83-9	N.D.	2	0.85
10237	2-Butanone	78-93-3	N.D.	4	0.85
10237	n-Butylbenzene	104-51-8	N.D.	1	0.85
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.85
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.85
10237	Carbon Disulfide	75-15-0	N.D.	1	0.85
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.85
10237	Chlorobenzene	108-90-7	N.D.	1	0.85
10237	Chloroethane	75-00-3	N.D.	2	0.85
10237	Chloroform	67-66-3	N.D.	1	0.85
10237	Chloromethane	74-87-3	N.D.	2	0.85
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.85
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.85
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.85
10237	Dibromochloromethane	124-48-1	N.D.	1	0.85
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.85
10237	Dibromomethane	74-95-3	N.D.	1	0.85
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.85
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.85
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.85
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.85
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.85
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.85
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.85
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.85
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.85
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.85
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.85
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.85
10237	Ethylbenzene	100-41-4	N.D.	1	0.85
10237	2-Hexanone	591-78-6	N.D.	3	0.85
10237	Isopropylbenzene	98-82-8	N.D.	1	0.85
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.85
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.85
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.85
10237	Methylene Chloride	75-09-2	N.D.	2	0.85
10237	n-Propylbenzene	103-65-1	N.D.	1	0.85
10237	Styrene	100-42-5	N.D.	1	0.85
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.85
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.85
10237	Tetrachloroethene	127-18-4	N.D.	1	0.85
10237	Toluene	108-88-3	N.D.	1	0.85
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.85
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.85

Sample Description: VP-S-AOC13-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938117
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.85
10237	Trichloroethene	79-01-6	N.D.	1	0.85
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.85
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.85
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.85
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.85
10237	Vinyl Chloride	75-01-4	N.D.	1	0.85
10237	m+p-Xylene	179601-23-1	N.D.	1	0.85
10237	o-Xylene	95-47-6	N.D.	1	0.85
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	8 J	4	1
10726	Benzidine	92-87-5	N.D.	800	1
10726	Benzo(a)anthracene	56-55-3	33	4	1
10726	Benzo(a)pyrene	50-32-8	47	4	1
10726	Benzo(b)fluoranthene	205-99-2	63	4	1
10726	Benzo(g,h,i)perylene	191-24-2	57	4	1
10726	Benzo(k)fluoranthene	207-08-9	23	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	76	1
10726	Di-n-butylphthalate	84-74-2	N.D.	76	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	47	4	1
10726	Dibenz(a,h)anthracene	53-70-3	15 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	76	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	76	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: VP-S-AOC13-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938117
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
10726	Fluoranthene	206-44-0	71	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	41	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	5 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	4 J	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	76	1
10726	4-Nitroaniline	100-01-6	N.D.	76	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	76	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	37	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	68	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Pesticides/PCBs SW-846 8082		ug/kg	ug/kg		
10736	PCB-1016	12674-11-2	N.D.	4.1	1
10736	PCB-1221	11104-28-2	N.D.	5.2	1
10736	PCB-1232	11141-16-5	N.D.	9.1	1
10736	PCB-1242	53469-21-9	N.D.	3.7	1
10736	PCB-1248	12672-29-6	N.D.	3.7	1

Sample Description: VP-S-AOC13-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938117
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1254	11097-69-1	N.D.	3.7	1
10736	PCB-1260	11096-82-5	N.D.	5.6	1
10736	Total PCBs	1336-36-3	N.D.	3.7	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,710	5.12	1
06944	Antimony	7440-36-0	2.13 J	0.372	1
06935	Arsenic	7440-38-2	25.5	0.722	1
06946	Barium	7440-39-3	35.6	0.0372	1
06947	Beryllium	7440-41-7	0.516 J	0.0756	1
06949	Cadmium	7440-43-9	N.D.	0.0372	1
01650	Calcium	7440-70-2	7,790	4.27	1
06951	Chromium	7440-47-3	13.9	0.124	1
06952	Cobalt	7440-48-4	5.91	0.108	1
06953	Copper	7440-50-8	17.6	0.372	1
01654	Iron	7439-89-6	16,100	3.77	1
06955	Lead	7439-92-1	17.1	0.564	1
01657	Magnesium	7439-95-4	6,030	1.88	1
06958	Manganese	7439-96-5	305	0.0936	1
06961	Nickel	7440-02-0	13.1	0.169	1
01662	Potassium	7440-09-7	1,180	14.7	1
06936	Selenium	7782-49-2	2.61	0.496	1
06966	Silver	7440-22-4	N.D.	0.214	1
01667	Sodium	7440-23-5	35.0 J	18.8	1
06925	Thallium	7440-28-0	N.D.	0.902	1
06971	Vanadium	7440-62-2	22.2	0.103	1
06972	Zinc	7440-66-6	68.1	0.293	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0216 J	0.0109	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	12.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 02:25	Sara E Johnson	0.85

Sample Description: VP-S-AOC13-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938117
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 16:53	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 16:53	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/18/2015 16:50	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 12:33	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/27/2015 12:02	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:03	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:13	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-AOC13-SB11-0-1 MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938118
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	120	6	0.79
10237	Benzene	71-43-2	16	0.4	0.79
10237	Bromobenzene	108-86-1	16	0.9	0.79
10237	Bromochloromethane	74-97-5	19	0.9	0.79
10237	Bromodichloromethane	75-27-4	16	0.9	0.79
10237	Bromoform	75-25-2	13	0.9	0.79
10237	Bromomethane	74-83-9	18	2	0.79
10237	2-Butanone	78-93-3	90	4	0.79
10237	n-Butylbenzene	104-51-8	13	0.9	0.79
10237	sec-Butylbenzene	135-98-8	15	0.9	0.79
10237	tert-Butylbenzene	98-06-6	16	0.9	0.79
10237	Carbon Disulfide	75-15-0	14	0.9	0.79
10237	Carbon Tetrachloride	56-23-5	17	0.9	0.79
10237	Chlorobenzene	108-90-7	16	0.9	0.79
10237	Chloroethane	75-00-3	17	2	0.79
10237	Chloroform	67-66-3	17	0.9	0.79
10237	Chloromethane	74-87-3	18	2	0.79
10237	2-Chlorotoluene	95-49-8	16	0.9	0.79
10237	4-Chlorotoluene	106-43-4	16	0.9	0.79
10237	1,2-Dibromo-3-chloropropane	96-12-8	12	2	0.79
10237	Dibromochloromethane	124-48-1	15	0.9	0.79
10237	1,2-Dibromoethane	106-93-4	15	0.9	0.79
10237	Dibromomethane	74-95-3	15	0.9	0.79
10237	Dichlorodifluoromethane	75-71-8	21	2	0.79
10237	1,1-Dichloroethane	75-34-3	16	0.9	0.79
10237	1,2-Dichloroethane	107-06-2	16	0.9	0.79
10237	1,1-Dichloroethene	75-35-4	16	0.9	0.79
10237	cis-1,2-Dichloroethene	156-59-2	16	0.9	0.79
10237	trans-1,2-Dichloroethene	156-60-5	17	0.9	0.79
10237	1,2-Dichloropropane	78-87-5	16	0.9	0.79
10237	1,3-Dichloropropane	142-28-9	15	0.9	0.79
10237	2,2-Dichloropropane	594-20-7	17	0.9	0.79
10237	1,1-Dichloropropene	563-58-6	16	0.9	0.79
10237	cis-1,3-Dichloropropene	10061-01-5	14	0.9	0.79
10237	trans-1,3-Dichloropropene	10061-02-6	15	0.9	0.79
10237	Ethylbenzene	100-41-4	16	0.9	0.79
10237	2-Hexanone	591-78-6	59	3	0.79
10237	Isopropylbenzene	98-82-8	15	0.9	0.79
10237	p-Isopropyltoluene	99-87-6	14	0.9	0.79
10237	Methyl Tertiary Butyl Ether	1634-04-4	14	0.4	0.79
10237	4-Methyl-2-pentanone	108-10-1	62	3	0.79
10237	Methylene Chloride	75-09-2	16	2	0.79
10237	n-Propylbenzene	103-65-1	16	0.9	0.79
10237	Styrene	100-42-5	15	0.9	0.79
10237	1,1,1,2-Tetrachloroethane	630-20-6	16	0.9	0.79
10237	1,1,2,2-Tetrachloroethane	79-34-5	15	0.9	0.79
10237	Tetrachloroethene	127-18-4	17	0.9	0.79
10237	Toluene	108-88-3	17	0.9	0.79
10237	1,2,3-Trichlorobenzene	87-61-6	8	0.9	0.79
10237	1,1,1-Trichloroethane	71-55-6	16	0.9	0.79

Sample Description: VP-S-AOC13-SB11-0-1 MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938118
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	16	0.9	0.79
10237	Trichloroethene	79-01-6	16	0.9	0.79
10237	Trichlorofluoromethane	75-69-4	19	2	0.79
10237	1,2,3-Trichloropropane	96-18-4	16	0.9	0.79
10237	1,2,4-Trimethylbenzene	95-63-6	15	0.9	0.79
10237	1,3,5-Trimethylbenzene	108-67-8	16	0.9	0.79
10237	Vinyl Chloride	75-01-4	19	0.9	0.79
10237	m+p-Xylene	179601-23-1	32	0.9	0.79
10237	o-Xylene	95-47-6	15	0.9	0.79
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,800	4	1
10726	Acenaphthylene	208-96-8	2,000	4	1
10726	Anthracene	120-12-7	1,900	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	1,800	4	1
10726	Benzo(a)pyrene	50-32-8	1,800	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,700	4	1
10726	Benzo(g,h,i)perylene	191-24-2	2,000	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,700	4	1
10726	Benzoic acid	65-85-0	2,700	190	1
10726	Benzyl alcohol	100-51-6	1,700	190	1
10726	4-Bromophenyl-phenylether	101-55-3	2,000	19	1
10726	Butylbenzylphthalate	85-68-7	1,800	75	1
10726	Di-n-butylphthalate	84-74-2	1,700	75	1
10726	Carbazole	86-74-8	1,700	19	1
10726	4-Chloro-3-methylphenol	59-50-7	1,500	19	1
10726	4-Chloroaniline	106-47-8	700	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,600	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,600	19	1
10726	2-Chloronaphthalene	91-58-7	1,700	8	1
10726	2-Chlorophenol	95-57-8	1,900	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,700	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,600	19	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	1,800	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,900	4	1
10726	Dibenzofuran	132-64-9	1,800	19	1
10726	1,2-Dichlorobenzene	95-50-1	1,800	19	1
10726	1,3-Dichlorobenzene	541-73-1	1,800	19	1
10726	1,4-Dichlorobenzene	106-46-7	1,700	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	470	110	1
10726	2,4-Dichlorophenol	120-83-2	1,800	19	1
10726	Diethylphthalate	84-66-2	1,600	75	1
10726	2,4-Dimethylphenol	105-67-9	1,500	19	1
10726	Dimethylphthalate	131-11-3	1,700	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	1,000	190	1

Sample Description: VP-S-AOC13-SB11-0-1 MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938118
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	1,500	340	1
10726	2,4-Dinitrotoluene	121-14-2	1,600	75	1
10726	2,6-Dinitrotoluene	606-20-2	1,800	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	75	1
10726	Fluoranthene	206-44-0	1,600	4	1
10726	Fluorene	86-73-7	1,700	4	1
10726	Hexachlorobenzene	118-74-1	1,900	4	1
10726	Hexachlorobutadiene	87-68-3	1,600	19	1
10726	Hexachlorocyclopentadiene	77-47-4	780	190	1
10726	Hexachloroethane	67-72-1	1,500	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,900	4	1
10726	Isophorone	78-59-1	1,500	19	1
10726	2-Methylnaphthalene	91-57-6	1,700	4	1
10726	2-Methylphenol	95-48-7	1,700	19	1
10726	4-Methylphenol	106-44-5	1,600	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	1,700	4	1
10726	2-Nitroaniline	88-74-4	1,900	19	1
10726	3-Nitroaniline	99-09-2	1,500	75	1
10726	4-Nitroaniline	100-01-6	1,300	75	1
10726	Nitrobenzene	98-95-3	1,400	19	1
10726	2-Nitrophenol	88-75-5	1,800	19	1
10726	4-Nitrophenol	100-02-7	1,200	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,400	19	1
10726	N-Nitrosodiphenylamine	86-30-6	2,100	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	1,800	75	1
10726	Pentachlorophenol	87-86-5	1,700	37	1
10726	Phenanthrene	85-01-8	1,900	4	1
10726	Phenol	108-95-2	1,500	19	1
10726	Pyrene	129-00-0	1,700	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,700	19	1
10726	2,4,5-Trichlorophenol	95-95-4	1,800	19	1
10726	2,4,6-Trichlorophenol	88-06-2	1,900	19	1
Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	160	4.0	1
10736	PCB-1221	11104-28-2	N.D.	5.2	1
10736	PCB-1232	11141-16-5	N.D.	9.0	1
10736	PCB-1242	53469-21-9	N.D.	3.7	1
10736	PCB-1248	12672-29-6	N.D.	3.7	1
10736	PCB-1254	11097-69-1	N.D.	3.7	1
10736	PCB-1260	11096-82-5	170	5.5	1
10736	Total PCBs	1336-36-3	330	3.7	1

Sample Description: VP-S-AOC13-SB11-0-1 MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938118
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01643	Aluminum	7429-90-5	10,500	5.12	1
06944	Antimony	7440-36-0	54.1	0.372	1
06935	Arsenic	7440-38-2	49.1	0.722	1
06946	Barium	7440-39-3	263	0.0372	1
06947	Beryllium	7440-41-7	6.37	0.0756	1
06949	Cadmium	7440-43-9	5.45	0.0372	1
01650	Calcium	7440-70-2	1,750	4.27	1
06951	Chromium	7440-47-3	38.2	0.124	1
06952	Cobalt	7440-48-4	60.9	0.108	1
06953	Copper	7440-50-8	42.3	0.372	1
01654	Iron	7439-89-6	15,000	3.77	1
06955	Lead	7439-92-1	34.5	0.564	1
01657	Magnesium	7439-95-4	2,580	1.88	1
06958	Manganese	7439-96-5	427	0.0936	1
06961	Nickel	7440-02-0	68.0	0.169	1
01662	Potassium	7440-09-7	2,560	14.7	1
06936	Selenium	7782-49-2	19.0	0.496	1
06966	Silver	7440-22-4	5.16	0.214	1
01667	Sodium	7440-23-5	1,130	18.8	1
06925	Thallium	7440-28-0	17.1	0.902	1
06971	Vanadium	7440-62-2	81.4	0.103	1
06972	Zinc	7440-66-6	116	0.293	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.248	0.0106	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	12.2	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 02:48	Sara E Johnson	0.79
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 16:53	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 16:53	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/18/2015 16:50	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 12:57	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1

Sample Description: VP-S-AOC13-SB11-0-1 MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938118
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

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Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/27/2015 12:14	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:12	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:19	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00118	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-AOC13-SB11-0-1 MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938119
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	150	6	0.78
10237	Benzene	71-43-2	16	0.4	0.78
10237	Bromobenzene	108-86-1	16	0.9	0.78
10237	Bromochloromethane	74-97-5	19	0.9	0.78
10237	Bromodichloromethane	75-27-4	16	0.9	0.78
10237	Bromoform	75-25-2	14	0.9	0.78
10237	Bromomethane	74-83-9	16	2	0.78
10237	2-Butanone	78-93-3	110	4	0.78
10237	n-Butylbenzene	104-51-8	12	0.9	0.78
10237	sec-Butylbenzene	135-98-8	14	0.9	0.78
10237	tert-Butylbenzene	98-06-6	15	0.9	0.78
10237	Carbon Disulfide	75-15-0	13	0.9	0.78
10237	Carbon Tetrachloride	56-23-5	17	0.9	0.78
10237	Chlorobenzene	108-90-7	16	0.9	0.78
10237	Chloroethane	75-00-3	15	2	0.78
10237	Chloroform	67-66-3	17	0.9	0.78
10237	Chloromethane	74-87-3	17	2	0.78
10237	2-Chlorotoluene	95-49-8	16	0.9	0.78
10237	4-Chlorotoluene	106-43-4	15	0.9	0.78
10237	1,2-Dibromo-3-chloropropane	96-12-8	14	2	0.78
10237	Dibromochloromethane	124-48-1	15	0.9	0.78
10237	1,2-Dibromoethane	106-93-4	16	0.9	0.78
10237	Dibromomethane	74-95-3	16	0.9	0.78
10237	Dichlorodifluoromethane	75-71-8	19	2	0.78
10237	1,1-Dichloroethane	75-34-3	16	0.9	0.78
10237	1,2-Dichloroethane	107-06-2	17	0.9	0.78
10237	1,1-Dichloroethene	75-35-4	16	0.9	0.78
10237	cis-1,2-Dichloroethene	156-59-2	17	0.9	0.78
10237	trans-1,2-Dichloroethene	156-60-5	17	0.9	0.78
10237	1,2-Dichloropropane	78-87-5	17	0.9	0.78
10237	1,3-Dichloropropane	142-28-9	16	0.9	0.78
10237	2,2-Dichloropropane	594-20-7	17	0.9	0.78
10237	1,1-Dichloropropene	563-58-6	15	0.9	0.78
10237	cis-1,3-Dichloropropene	10061-01-5	14	0.9	0.78
10237	trans-1,3-Dichloropropene	10061-02-6	15	0.9	0.78
10237	Ethylbenzene	100-41-4	15	0.9	0.78
10237	2-Hexanone	591-78-6	72	3	0.78
10237	Isopropylbenzene	98-82-8	14	0.9	0.78
10237	p-Isopropyltoluene	99-87-6	13	0.9	0.78
10237	Methyl Tertiary Butyl Ether	1634-04-4	16	0.4	0.78
10237	4-Methyl-2-pentanone	108-10-1	74	3	0.78
10237	Methylene Chloride	75-09-2	17	2	0.78
10237	n-Propylbenzene	103-65-1	15	0.9	0.78
10237	Styrene	100-42-5	15	0.9	0.78
10237	1,1,1,2-Tetrachloroethane	630-20-6	16	0.9	0.78
10237	1,1,2,2-Tetrachloroethane	79-34-5	17	0.9	0.78
10237	Tetrachloroethene	127-18-4	17	0.9	0.78
10237	Toluene	108-88-3	16	0.9	0.78
10237	1,2,3-Trichlorobenzene	87-61-6	8	0.9	0.78
10237	1,1,1-Trichloroethane	71-55-6	16	0.9	0.78

Sample Description: VP-S-AOC13-SB11-0-1 MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938119
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	17	0.9	0.78
10237	Trichloroethene	79-01-6	16	0.9	0.78
10237	Trichlorofluoromethane	75-69-4	18	2	0.78
10237	1,2,3-Trichloropropane	96-18-4	18	0.9	0.78
10237	1,2,4-Trimethylbenzene	95-63-6	15	0.9	0.78
10237	1,3,5-Trimethylbenzene	108-67-8	15	0.9	0.78
10237	Vinyl Chloride	75-01-4	18	0.9	0.78
10237	m+p-Xylene	179601-23-1	30	0.9	0.78
10237	o-Xylene	95-47-6	15	0.9	0.78
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,500	4	1
10726	Acenaphthylene	208-96-8	1,600	4	1
10726	Anthracene	120-12-7	1,700	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	1,600	4	1
10726	Benzo(a)pyrene	50-32-8	1,500	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,500	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,700	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,400	4	1
10726	Benzoic acid	65-85-0	2,500	190	1
10726	Benzyl alcohol	100-51-6	1,400	190	1
10726	4-Bromophenyl-phenylether	101-55-3	1,700	19	1
10726	Butylbenzylphthalate	85-68-7	1,500	75	1
10726	Di-n-butylphthalate	84-74-2	1,500	75	1
10726	Carbazole	86-74-8	1,500	19	1
10726	4-Chloro-3-methylphenol	59-50-7	1,300	19	1
10726	4-Chloroaniline	106-47-8	160	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,400	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,300	19	1
10726	2-Chloronaphthalene	91-58-7	1,500	8	1
10726	2-Chlorophenol	95-57-8	1,700	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,300	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,500	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	1,600	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,600	4	1
10726	Dibenzofuran	132-64-9	1,400	19	1
10726	1,2-Dichlorobenzene	95-50-1	1,500	19	1
10726	1,3-Dichlorobenzene	541-73-1	1,400	19	1
10726	1,4-Dichlorobenzene	106-46-7	1,400	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	1,500	19	1
10726	Diethylphthalate	84-66-2	1,300	75	1
10726	2,4-Dimethylphenol	105-67-9	1,400	19	1
10726	Dimethylphthalate	131-11-3	1,400	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	700	190	1

Sample Description: VP-S-AOC13-SB11-0-1 MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938119
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg		ug/kg	
10726	2,4-Dinitrophenol	51-28-5	1,000	J	340	1
10726	2,4-Dinitrotoluene	121-14-2	1,200		75	1
10726	2,6-Dinitrotoluene	606-20-2	1,400		19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,600		75	1
10726	Fluoranthene	206-44-0	1,400		4	1
10726	Fluorene	86-73-7	1,400		4	1
10726	Hexachlorobenzene	118-74-1	1,700		4	1
10726	Hexachlorobutadiene	87-68-3	1,300		19	1
10726	Hexachlorocyclopentadiene	77-47-4	370	J	190	1
10726	Hexachloroethane	67-72-1	1,200		38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,600		4	1
10726	Isophorone	78-59-1	1,300		19	1
10726	2-Methylnaphthalene	91-57-6	1,400		4	1
10726	2-Methylphenol	95-48-7	1,500		19	1
10726	4-Methylphenol	106-44-5	1,300		19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
10726	Naphthalene	91-20-3	1,500		4	1
10726	2-Nitroaniline	88-74-4	1,600		19	1
10726	3-Nitroaniline	99-09-2	7,100	E	75	1
10726	4-Nitroaniline	100-01-6	140	J	75	1
10726	Nitrobenzene	98-95-3	1,200		19	1
10726	2-Nitrophenol	88-75-5	1,600		19	1
10726	4-Nitrophenol	100-02-7	990		190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,200		19	1
10726	N-Nitrosodiphenylamine	86-30-6	1,800		19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
10726	Di-n-octylphthalate	117-84-0	1,400		75	1
10726	Pentachlorophenol	87-86-5	1,600		38	1
10726	Phenanthrene	85-01-8	1,600		4	1
10726	Phenol	108-95-2	1,300		19	1
10726	Pyrene	129-00-0	1,500		4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,500		19	1
10726	2,4,5-Trichlorophenol	95-95-4	1,400		19	1
10726	2,4,6-Trichlorophenol	88-06-2	1,600		19	1
Pesticides/PCBs		SW-846 8082	ug/kg		ug/kg	
10736	PCB-1016	12674-11-2	170		4.1	1
10736	PCB-1221	11104-28-2	N.D.		5.2	1
10736	PCB-1232	11141-16-5	N.D.		9.1	1
10736	PCB-1242	53469-21-9	N.D.		3.7	1
10736	PCB-1248	12672-29-6	N.D.		3.7	1
10736	PCB-1254	11097-69-1	N.D.		3.7	1
10736	PCB-1260	11096-82-5	190		5.6	1
10736	Total PCBs	1336-36-3	360		3.7	1

Sample Description: VP-S-AOC13-SB11-0-1 MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938119
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

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Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01643	Aluminum	7429-90-5	9,880	5.12	1
06944	Antimony	7440-36-0	56.0	0.372	1
06935	Arsenic	7440-38-2	55.0	0.722	1
06946	Barium	7440-39-3	270	0.0372	1
06947	Beryllium	7440-41-7	6.48	0.0756	1
06949	Cadmium	7440-43-9	5.43	0.0372	1
01650	Calcium	7440-70-2	3,410	4.27	1
06951	Chromium	7440-47-3	40.2	0.124	1
06952	Cobalt	7440-48-4	60.9	0.108	1
06953	Copper	7440-50-8	42.6	0.372	1
01654	Iron	7439-89-6	22,400	3.77	1
06955	Lead	7439-92-1	35.1	0.564	1
01657	Magnesium	7439-95-4	3,140	1.88	1
06958	Manganese	7439-96-5	406	0.0936	1
06961	Nickel	7440-02-0	67.1	0.169	1
01662	Potassium	7440-09-7	2,610	14.7	1
06936	Selenium	7782-49-2	21.0	0.496	1
06966	Silver	7440-22-4	5.66	0.214	1
01667	Sodium	7440-23-5	1,160	18.8	1
06925	Thallium	7440-28-0	17.6	0.902	1
06971	Vanadium	7440-62-2	81.4	0.103	1
06972	Zinc	7440-66-6	119	0.293	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.208	0.0109	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	12.2	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 03:10	Sara E Johnson	0.78
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 16:53	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 16:53	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/18/2015 16:50	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 13:21	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1

Sample Description: VP-S-AOC13-SB11-0-1 MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938119
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/27/2015 12:49	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:15	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:21	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00118	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-AOC13-SB11-0-1 DUP Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938120
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,980	5.12	1
06944	Antimony	7440-36-0	2.47	0.372	1
06935	Arsenic	7440-38-2	31.3	0.722	1
06946	Barium	7440-39-3	37.0	0.0372	1
06947	Beryllium	7440-41-7	0.498 J	0.0756	1
06949	Cadmium	7440-43-9	N.D.	0.0372	1
01650	Calcium	7440-70-2	1,380	4.27	1
06951	Chromium	7440-47-3	20.8	0.124	1
06952	Cobalt	7440-48-4	6.68	0.108	1
06953	Copper	7440-50-8	17.8	0.372	1
01654	Iron	7439-89-6	16,600	3.77	1
06955	Lead	7439-92-1	18.8	0.564	1
01657	Magnesium	7439-95-4	2,700	1.88	1
06958	Manganese	7439-96-5	366	0.0936	1
06961	Nickel	7440-02-0	14.9	0.169	1
01662	Potassium	7440-09-7	1,020	14.7	1
06936	Selenium	7782-49-2	2.65	0.496	1
06966	Silver	7440-22-4	N.D.	0.214	1
01667	Sodium	7440-23-5	26.9 J	18.8	1
06925	Thallium	7440-28-0	N.D.	0.902	1
06971	Vanadium	7440-62-2	23.9	0.103	1
06972	Zinc	7440-66-6	77.5	0.293	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0259 J	0.0113	1
Wet Chemistry		SM 2540 G-1997	%	%	
00118	Moisture	n.a.	12.2	0.50	1
00121	Moisture Duplicate	n.a.	10.2	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:09	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:09	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:09	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:09	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:09	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:09	Joanne M Gates	1

Sample Description: VP-S-AOC13-SB11-0-1 DUP Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938120
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1402 SDG#: NWP14-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015	11:09	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015	07:17	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015	21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015	16:41	James L Mertz	1
00118	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015	10:28	William C Schwebel	1
00121	Moisture Duplicate	SM 2540 G-1997	1	15177820001B	06/26/2015	10:28	William C Schwebel	1

Sample Description: VP-S-AOC13-SB11-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938121
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1403 SDG#: NWP14-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	11	1.38
10237	Benzene	71-43-2	N.D.	0.8	1.38
10237	Bromobenzene	108-86-1	N.D.	2	1.38
10237	Bromochloromethane	74-97-5	N.D.	2	1.38
10237	Bromodichloromethane	75-27-4	N.D.	2	1.38
10237	Bromoform	75-25-2	N.D.	2	1.38
10237	Bromomethane	74-83-9	N.D.	3	1.38
10237	2-Butanone	78-93-3	N.D.	6	1.38
10237	n-Butylbenzene	104-51-8	N.D.	2	1.38
10237	sec-Butylbenzene	135-98-8	N.D.	2	1.38
10237	tert-Butylbenzene	98-06-6	N.D.	2	1.38
10237	Carbon Disulfide	75-15-0	N.D.	2	1.38
10237	Carbon Tetrachloride	56-23-5	N.D.	2	1.38
10237	Chlorobenzene	108-90-7	N.D.	2	1.38
10237	Chloroethane	75-00-3	N.D.	3	1.38
10237	Chloroform	67-66-3	N.D.	2	1.38
10237	Chloromethane	74-87-3	N.D.	3	1.38
10237	2-Chlorotoluene	95-49-8	N.D.	2	1.38
10237	4-Chlorotoluene	106-43-4	N.D.	2	1.38
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	3	1.38
10237	Dibromochloromethane	124-48-1	N.D.	2	1.38
10237	1,2-Dibromoethane	106-93-4	N.D.	2	1.38
10237	Dibromomethane	74-95-3	N.D.	2	1.38
10237	Dichlorodifluoromethane	75-71-8	N.D.	3	1.38
10237	1,1-Dichloroethane	75-34-3	N.D.	2	1.38
10237	1,2-Dichloroethane	107-06-2	N.D.	2	1.38
10237	1,1-Dichloroethene	75-35-4	N.D.	2	1.38
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	2	1.38
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	2	1.38
10237	1,2-Dichloropropane	78-87-5	N.D.	2	1.38
10237	1,3-Dichloropropane	142-28-9	N.D.	2	1.38
10237	2,2-Dichloropropane	594-20-7	N.D.	2	1.38
10237	1,1-Dichloropropene	563-58-6	N.D.	2	1.38
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	2	1.38
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	1.38
10237	Ethylbenzene	100-41-4	N.D.	2	1.38
10237	2-Hexanone	591-78-6	N.D.	5	1.38
10237	Isopropylbenzene	98-82-8	N.D.	2	1.38
10237	p-Isopropyltoluene	99-87-6	N.D.	2	1.38
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.8	1.38
10237	4-Methyl-2-pentanone	108-10-1	N.D.	5	1.38
10237	Methylene Chloride	75-09-2	N.D.	3	1.38
10237	n-Propylbenzene	103-65-1	N.D.	2	1.38
10237	Styrene	100-42-5	N.D.	2	1.38
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	2	1.38
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2	1.38
10237	Tetrachloroethene	127-18-4	13	2	1.38
10237	Toluene	108-88-3	N.D.	2	1.38
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	2	1.38
10237	1,1,1-Trichloroethane	71-55-6	N.D.	2	1.38

Sample Description: VP-S-AOC13-SB11-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938121
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1403 SDG#: NWP14-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	2	1.38
10237	Trichloroethene	79-01-6	N.D.	2	1.38
10237	Trichlorofluoromethane	75-69-4	N.D.	3	1.38
10237	1,2,3-Trichloropropane	96-18-4	N.D.	2	1.38
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	2	1.38
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	2	1.38
10237	Vinyl Chloride	75-01-4	N.D.	2	1.38
10237	m+p-Xylene	179601-23-1	N.D.	2	1.38
10237	o-Xylene	95-47-6	N.D.	2	1.38
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	17 J	4	1
10726	Benzidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	31	4	1
10726	Benzo(a)pyrene	50-32-8	36	4	1
10726	Benzo(b)fluoranthene	205-99-2	39	4	1
10726	Benzo(g,h,i)perylene	191-24-2	30	4	1
10726	Benzo(k)fluoranthene	207-08-9	22	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	74	1
10726	Di-n-butylphthalate	84-74-2	N.D.	74	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	43	4	1
10726	Dibenz(a,h)anthracene	53-70-3	11 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	74	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	74	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: VP-S-AOC13-SB11-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938121
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1403 SDG#: NWP14-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	74	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	74	1
10726	Fluoranthene	206-44-0	50	4	1
10726	Fluorene	86-73-7	5 J	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	25	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	32	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	18 J	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	74	1
10726	4-Nitroaniline	100-01-6	N.D.	74	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	74	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	72	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	52	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.0	1
10736	PCB-1221	11104-28-2	N.D.	5.1	1
10736	PCB-1232	11141-16-5	N.D.	8.9	1
10736	PCB-1242	53469-21-9	N.D.	3.7	1
10736	PCB-1248	12672-29-6	N.D.	3.7	1

Sample Description: VP-S-AOC13-SB11-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938121
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1403 SDG#: NWP14-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1254	11097-69-1	N.D.	3.7	1
10736	PCB-1260	11096-82-5	N.D.	5.4	1
10736	Total PCBs	1336-36-3	N.D.	3.7	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,410	4.91	1
06944	Antimony	7440-36-0	4.37	0.357	1
06935	Arsenic	7440-38-2	17.2	0.692	1
06946	Barium	7440-39-3	30.4	0.0357	1
06947	Beryllium	7440-41-7	0.651	0.0724	1
06949	Cadmium	7440-43-9	0.698	0.0357	1
01650	Calcium	7440-70-2	2,040	4.10	1
06951	Chromium	7440-47-3	15.5	0.119	1
06952	Cobalt	7440-48-4	12.6	0.104	1
06953	Copper	7440-50-8	37.3	0.357	1
01654	Iron	7439-89-6	31,400	18.1	5
06955	Lead	7439-92-1	30.7	0.541	1
01657	Magnesium	7439-95-4	2,810	1.81	1
06958	Manganese	7439-96-5	394	0.0897	1
06961	Nickel	7440-02-0	30.5	0.162	1
01662	Potassium	7440-09-7	1,580	14.1	1
06936	Selenium	7782-49-2	5.59	0.476	1
06966	Silver	7440-22-4	1.22	0.205	1
01667	Sodium	7440-23-5	46.7	18.1	1
06925	Thallium	7440-28-0	1.99	0.865	1
06971	Vanadium	7440-62-2	27.9	0.0984	1
06972	Zinc	7440-66-6	355	0.281	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0227 J	0.0107	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	10.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 03:14	Stephanie A Selis	1.38

Sample Description: VP-S-AOC13-SB11-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938121
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 16:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1403 SDG#: NWP14-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 16:53	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 16:53	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/18/2015 16:55	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 13:44	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/27/2015 13:00	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 20:30	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:25	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:25	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-AOC13-SB12-16-18 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938122
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 17:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1404 SDG#: NWP14-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	8 J	7	0.76
10237	Benzene	71-43-2	N.D.	0.5	0.76
10237	Bromobenzene	108-86-1	N.D.	1	0.76
10237	Bromochloromethane	74-97-5	N.D.	1	0.76
10237	Bromodichloromethane	75-27-4	N.D.	1	0.76
10237	Bromoform	75-25-2	N.D.	1	0.76
10237	Bromomethane	74-83-9	N.D.	2	0.76
10237	2-Butanone	78-93-3	N.D.	4	0.76
10237	n-Butylbenzene	104-51-8	N.D.	1	0.76
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.76
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.76
10237	Carbon Disulfide	75-15-0	N.D.	1	0.76
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.76
10237	Chlorobenzene	108-90-7	N.D.	1	0.76
10237	Chloroethane	75-00-3	N.D.	2	0.76
10237	Chloroform	67-66-3	N.D.	1	0.76
10237	Chloromethane	74-87-3	N.D.	2	0.76
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.76
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.76
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.76
10237	Dibromochloromethane	124-48-1	N.D.	1	0.76
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.76
10237	Dibromomethane	74-95-3	N.D.	1	0.76
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.76
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.76
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.76
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.76
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.76
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.76
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.76
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.76
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.76
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.76
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.76
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.76
10237	Ethylbenzene	100-41-4	N.D.	1	0.76
10237	2-Hexanone	591-78-6	N.D.	3	0.76
10237	Isopropylbenzene	98-82-8	N.D.	1	0.76
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.76
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.76
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.76
10237	Methylene Chloride	75-09-2	N.D.	2	0.76
10237	n-Propylbenzene	103-65-1	N.D.	1	0.76
10237	Styrene	100-42-5	N.D.	1	0.76
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.76
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.76
10237	Tetrachloroethene	127-18-4	N.D.	1	0.76
10237	Toluene	108-88-3	N.D.	1	0.76
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.76
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.76

Sample Description: VP-S-AOC13-SB12-16-18 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938122
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 17:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1404 SDG#: NWP14-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.76
10237	Trichloroethene	79-01-6	N.D.	1	0.76
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.76
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.76
10237	1,2,4-Trimethylbenzene	95-63-6	1 J	1	0.76
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.76
10237	Vinyl Chloride	75-01-4	N.D.	1	0.76
10237	m+p-Xylene	179601-23-1	N.D.	1	0.76
10237	o-Xylene	95-47-6	N.D.	1	0.76
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	880	1
10726	Benzo(a)anthracene	56-55-3	12 J	4	1
10726	Benzo(a)pyrene	50-32-8	9 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	11 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	11 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	9 J	4	1
10726	Benzoic acid	65-85-0	N.D.	210	1
10726	Benzyl alcohol	100-51-6	N.D.	210	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	21	1
10726	Butylbenzylphthalate	85-68-7	N.D.	84	1
10726	Di-n-butylphthalate	84-74-2	N.D.	84	1
10726	Carbazole	86-74-8	N.D.	21	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	21	1
10726	4-Chloroaniline	106-47-8	N.D.	42	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	21	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	21	1
10726	2-Chloronaphthalene	91-58-7	N.D.	9	1
10726	2-Chlorophenol	95-57-8	N.D.	21	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	21	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	21	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	14 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	21	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	21	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	21	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	21	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	130	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	21	1
10726	Diethylphthalate	84-66-2	N.D.	84	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	21	1
10726	Dimethylphthalate	131-11-3	N.D.	84	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	210	1

Sample Description: VP-S-AOC13-SB12-16-18 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938122
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 17:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1404 SDG#: NWP14-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	380	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	84	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	21	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	84	1
10726	Fluoranthene	206-44-0	8	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	21	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	210	1
10726	Hexachloroethane	67-72-1	N.D.	42	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	21	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	21	1
10726	4-Methylphenol	106-44-5	N.D.	21	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	21	1
10726	3-Nitroaniline	99-09-2	N.D.	84	1
10726	4-Nitroaniline	100-01-6	N.D.	84	1
10726	Nitrobenzene	98-95-3	N.D.	21	1
10726	2-Nitrophenol	88-75-5	N.D.	21	1
10726	4-Nitrophenol	100-02-7	N.D.	210	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	21	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	21	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	84	1
10726	Pentachlorophenol	87-86-5	N.D.	42	1
10726	Phenanthrene	85-01-8	10	4	1
10726	Phenol	108-95-2	N.D.	21	1
10726	Pyrene	129-00-0	13	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	21	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	21	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	21	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.5	1
10736	PCB-1221	11104-28-2	N.D.	5.7	1
10736	PCB-1232	11141-16-5	N.D.	9.9	1
10736	PCB-1242	53469-21-9	N.D.	4.1	1
10736	PCB-1248	12672-29-6	N.D.	4.1	1

Sample Description: VP-S-AOC13-SB12-16-18 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938122
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 17:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1404 SDG#: NWP14-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1254	11097-69-1	N.D.	4.1	1
10736	PCB-1260	11096-82-5	N.D.	6.1	1
10736	Total PCBs	1336-36-3	N.D.	4.1	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	1,990	5.47	1
06944	Antimony	7440-36-0	N.D.	0.398	1
06935	Arsenic	7440-38-2	N.D.	0.771	1
06946	Barium	7440-39-3	8.60	0.0398	1
06947	Beryllium	7440-41-7	0.133 J	0.0807	1
06949	Cadmium	7440-43-9	N.D.	0.0398	1
01650	Calcium	7440-70-2	410	4.57	1
06951	Chromium	7440-47-3	3.65	0.133	1
06952	Cobalt	7440-48-4	1.06	0.116	1
06953	Copper	7440-50-8	3.52	0.398	1
01654	Iron	7439-89-6	1,950	4.02	1
06955	Lead	7439-92-1	6.13	0.602	1
01657	Magnesium	7439-95-4	650	2.01	1
06958	Manganese	7439-96-5	22.7	0.100	1
06961	Nickel	7440-02-0	3.33	0.181	1
01662	Potassium	7440-09-7	499	15.7	1
06936	Selenium	7782-49-2	N.D.	0.530	1
06966	Silver	7440-22-4	N.D.	0.229	1
01667	Sodium	7440-23-5	38.7 J	20.1	1
06925	Thallium	7440-28-0	N.D.	0.964	1
06971	Vanadium	7440-62-2	5.03	0.110	1
06972	Zinc	7440-66-6	25.2	0.313	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0120	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	20.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 03:55	Sara E Johnson	0.76

Sample Description: VP-S-AOC13-SB12-16-18 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938122
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/18/2015 17:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1404 SDG#: NWP14-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 16:57	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 16:57	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/18/2015 17:20	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 14:08	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/27/2015 13:12	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:34	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:27	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-SWMU4-SB31-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938123
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1405 SDG#: NWP14-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	10 J	6	0.74
10237	Benzene	71-43-2	N.D.	0.4	0.74
10237	Bromobenzene	108-86-1	N.D.	0.8	0.74
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.74
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.74
10237	Bromoform	75-25-2	N.D.	0.8	0.74
10237	Bromomethane	74-83-9	N.D.	2	0.74
10237	2-Butanone	78-93-3	N.D.	3	0.74
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.74
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.74
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.74
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.74
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.74
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.74
10237	Chloroethane	75-00-3	N.D.	2	0.74
10237	Chloroform	67-66-3	N.D.	0.8	0.74
10237	Chloromethane	74-87-3	N.D.	2	0.74
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.74
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.74
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.74
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.74
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.74
10237	Dibromomethane	74-95-3	N.D.	0.8	0.74
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.74
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.74
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.74
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.74
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.74
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.74
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.74
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.74
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.74
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.74
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.74
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.74
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.74
10237	2-Hexanone	591-78-6	N.D.	2	0.74
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.74
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.74
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.74
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.74
10237	Methylene Chloride	75-09-2	N.D.	2	0.74
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.74
10237	Styrene	100-42-5	N.D.	0.8	0.74
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.74
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.74
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.74
10237	Toluene	108-88-3	N.D.	0.8	0.74
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.74
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.74

Sample Description: VP-S-SWMU4-SB31-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938123
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1405 SDG#: NWP14-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.74
10237	Trichloroethene	79-01-6	N.D.	0.8	0.74
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.74
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.74
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.74
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.74
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.74
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.74
10237	o-Xylene	95-47-6	N.D.	0.8	0.74
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	81	4	1
10726	Acenaphthylene	208-96-8	21	4	1
10726	Anthracene	120-12-7	220	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	1,500	4	1
10726	Benzo(a)pyrene	50-32-8	1,600	4	1
10726	Benzo(b)fluoranthene	205-99-2	3,500	4	1
10726	Benzo(g,h,i)perylene	191-24-2	2,300	4	1
10726	Benzo(k)fluoranthene	207-08-9	890	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	75	1
10726	Di-n-butylphthalate	84-74-2	N.D.	75	1
10726	Carbazole	86-74-8	110	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	2,300	4	1
10726	Dibenz(a,h)anthracene	53-70-3	750	4	1
10726	Dibenzofuran	132-64-9	130	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	75	1
10726	2,4-Dimethylphenol	105-67-9	20	19	1
10726	Dimethylphthalate	131-11-3	N.D.	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: VP-S-SWMU4-SB31-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938123
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1405 SDG#: NWP14-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	75	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	75	1
10726	Fluoranthene	206-44-0	2,000	4	1
10726	Fluorene	86-73-7	54	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	230	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	38	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	170	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	75	1
10726	4-Nitroaniline	100-01-6	N.D.	75	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	75	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	1,200	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	1,600	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.1	1
10736	PCB-1221	11104-28-2	N.D.	5.2	1
10736	PCB-1232	11141-16-5	N.D.	9.0	1
10736	PCB-1242	53469-21-9	N.D.	3.7	1
10736	PCB-1248	12672-29-6	N.D.	3.7	1

Sample Description: VP-S-SWMU4-SB31-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938123
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1405 SDG#: NWP14-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs			SW-846 8082	ug/kg	
10736	PCB-1254	11097-69-1	N.D.	3.7	1
10736	PCB-1260	11096-82-5	N.D.	5.5	1
10736	Total PCBs	1336-36-3	N.D.	3.7	1
Metals			SW-846 6010B	mg/kg	
01643	Aluminum	7429-90-5	6,780	5.03	1
06944	Antimony	7440-36-0	6.42	0.366	1
06935	Arsenic	7440-38-2	9.09	0.709	1
06946	Barium	7440-39-3	101	0.0366	1
06947	Beryllium	7440-41-7	0.842	0.0742	1
06949	Cadmium	7440-43-9	0.545 J	0.0366	1
01650	Calcium	7440-70-2	8,800	4.20	1
06951	Chromium	7440-47-3	41.0	0.122	1
06952	Cobalt	7440-48-4	7.92	0.106	1
06953	Copper	7440-50-8	165	0.366	1
01654	Iron	7439-89-6	38,600	18.5	5
06955	Lead	7439-92-1	251	0.554	1
01657	Magnesium	7439-95-4	4,660	1.85	1
06958	Manganese	7439-96-5	379	0.0919	1
06961	Nickel	7440-02-0	22.0	0.166	1
01662	Potassium	7440-09-7	1,170	14.4	1
06936	Selenium	7782-49-2	7.50	0.487	1
06966	Silver	7440-22-4	2.38	0.210	1
01667	Sodium	7440-23-5	102 J	18.5	1
06925	Thallium	7440-28-0	1.74 J	0.886	1
06971	Vanadium	7440-62-2	27.8	0.101	1
06972	Zinc	7440-66-6	1,300	1.44	5
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0549 J	0.0106	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	11.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 10:24	Stephanie A Selis	0.74

Sample Description: VP-S-SWMU4-SB31-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938123
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:50

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1405 SDG#: NWP14-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:09	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 08:50	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 14:31	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/28/2015 20:44	Monica M Souders	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 20:33	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:37	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 20:33	Katlin N Cataldi	5
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:33	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-SWMU4-SB31-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938124
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1406 SDG#: NWP14-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	69	13	1.52
10237	Benzene	71-43-2	N.D.	0.9	1.52
10237	Bromobenzene	108-86-1	N.D.	2	1.52
10237	Bromochloromethane	74-97-5	N.D.	2	1.52
10237	Bromodichloromethane	75-27-4	N.D.	2	1.52
10237	Bromoform	75-25-2	N.D.	2	1.52
10237	Bromomethane	74-83-9	N.D.	4	1.52
10237	2-Butanone	78-93-3	9 J	7	1.52
10237	n-Butylbenzene	104-51-8	N.D.	2	1.52
10237	sec-Butylbenzene	135-98-8	N.D.	2	1.52
10237	tert-Butylbenzene	98-06-6	N.D.	2	1.52
10237	Carbon Disulfide	75-15-0	N.D.	2	1.52
10237	Carbon Tetrachloride	56-23-5	N.D.	2	1.52
10237	Chlorobenzene	108-90-7	N.D.	2	1.52
10237	Chloroethane	75-00-3	N.D.	4	1.52
10237	Chloroform	67-66-3	N.D.	2	1.52
10237	Chloromethane	74-87-3	N.D.	4	1.52
10237	2-Chlorotoluene	95-49-8	N.D.	2	1.52
10237	4-Chlorotoluene	106-43-4	N.D.	2	1.52
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	4	1.52
10237	Dibromochloromethane	124-48-1	N.D.	2	1.52
10237	1,2-Dibromoethane	106-93-4	N.D.	2	1.52
10237	Dibromomethane	74-95-3	N.D.	2	1.52
10237	Dichlorodifluoromethane	75-71-8	N.D.	4	1.52
10237	1,1-Dichloroethane	75-34-3	N.D.	2	1.52
10237	1,2-Dichloroethane	107-06-2	N.D.	2	1.52
10237	1,1-Dichloroethene	75-35-4	N.D.	2	1.52
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	2	1.52
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	2	1.52
10237	1,2-Dichloropropane	78-87-5	N.D.	2	1.52
10237	1,3-Dichloropropane	142-28-9	N.D.	2	1.52
10237	2,2-Dichloropropane	594-20-7	N.D.	2	1.52
10237	1,1-Dichloropropene	563-58-6	N.D.	2	1.52
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	2	1.52
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	1.52
10237	Ethylbenzene	100-41-4	N.D.	2	1.52
10237	2-Hexanone	591-78-6	N.D.	5	1.52
10237	Isopropylbenzene	98-82-8	N.D.	2	1.52
10237	p-Isopropyltoluene	99-87-6	N.D.	2	1.52
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.9	1.52
10237	4-Methyl-2-pentanone	108-10-1	N.D.	5	1.52
10237	Methylene Chloride	75-09-2	N.D.	4	1.52
10237	n-Propylbenzene	103-65-1	N.D.	2	1.52
10237	Styrene	100-42-5	N.D.	2	1.52
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	2	1.52
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2	1.52
10237	Tetrachloroethene	127-18-4	N.D.	2	1.52
10237	Toluene	108-88-3	N.D.	2	1.52
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	2	1.52
10237	1,1,1-Trichloroethane	71-55-6	N.D.	2	1.52

Sample Description: VP-S-SWMU4-SB31-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938124
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1406 SDG#: NWP14-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	2	1.52
10237	Trichloroethene	79-01-6	N.D.	2	1.52
10237	Trichlorofluoromethane	75-69-4	N.D.	4	1.52
10237	1,2,3-Trichloropropane	96-18-4	N.D.	2	1.52
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	2	1.52
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	2	1.52
10237	Vinyl Chloride	75-01-4	N.D.	2	1.52
10237	m+p-Xylene	179601-23-1	N.D.	2	1.52
10237	o-Xylene	95-47-6	N.D.	2	1.52
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	340	19	5
10726	Acenaphthylene	208-96-8	55	19	5
10726	Anthracene	120-12-7	930	19	5
10726	Benzidine	92-87-5	N.D.	4,100	5
10726	Benzo(a)anthracene	56-55-3	2,100	19	5
10726	Benzo(a)pyrene	50-32-8	2,000	19	5
10726	Benzo(b)fluoranthene	205-99-2	2,900	19	5
10726	Benzo(g,h,i)perylene	191-24-2	1,800	19	5
10726	Benzo(k)fluoranthene	207-08-9	940	19	5
10726	Benzoic acid	65-85-0	N.D.	970	5
10726	Benzyl alcohol	100-51-6	N.D.	970	5
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	97	5
10726	Butylbenzylphthalate	85-68-7	N.D.	390	5
10726	Di-n-butylphthalate	84-74-2	N.D.	390	5
10726	Carbazole	86-74-8	610	97	5
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	97	5
10726	4-Chloroaniline	106-47-8	N.D.	190	5
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	97	5
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	97	5
10726	2-Chloronaphthalene	91-58-7	N.D.	41	5
10726	2-Chlorophenol	95-57-8	N.D.	97	5
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	97	5
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	97	5
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	2,400	19	5
10726	Dibenz(a,h)anthracene	53-70-3	490	19	5
10726	Dibenzofuran	132-64-9	420	97	5
10726	1,2-Dichlorobenzene	95-50-1	N.D.	97	5
10726	1,3-Dichlorobenzene	541-73-1	N.D.	97	5
10726	1,4-Dichlorobenzene	106-46-7	N.D.	97	5
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	580	5
10726	2,4-Dichlorophenol	120-83-2	N.D.	97	5
10726	Diethylphthalate	84-66-2	N.D.	390	5
10726	2,4-Dimethylphenol	105-67-9	N.D.	97	5
10726	Dimethylphthalate	131-11-3	N.D.	390	5
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	970	5

Sample Description: VP-S-SWMU4-SB31-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938124
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1406 SDG#: NWP14-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	1,800	5
10726	2,4-Dinitrotoluene	121-14-2	N.D.	390	5
10726	2,6-Dinitrotoluene	606-20-2	N.D.	97	5
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	390	5
10726	Fluoranthene	206-44-0	4,000	19	5
10726	Fluorene	86-73-7	410	19	5
10726	Hexachlorobenzene	118-74-1	N.D.	19	5
10726	Hexachlorobutadiene	87-68-3	N.D.	97	5
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	970	5
10726	Hexachloroethane	67-72-1	N.D.	190	5
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	5
10726	Isophorone	78-59-1	N.D.	97	5
10726	2-Methylnaphthalene	91-57-6	1,200	19	5
10726	2-Methylphenol	95-48-7	N.D.	97	5
10726	4-Methylphenol	106-44-5	N.D.	97	5
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	990	19	5
10726	2-Nitroaniline	88-74-4	N.D.	97	5
10726	3-Nitroaniline	99-09-2	N.D.	390	5
10726	4-Nitroaniline	100-01-6	N.D.	390	5
10726	Nitrobenzene	98-95-3	N.D.	97	5
10726	2-Nitrophenol	88-75-5	N.D.	97	5
10726	4-Nitrophenol	100-02-7	N.D.	970	5
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	97	5
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	97	5
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	390	5
10726	Pentachlorophenol	87-86-5	N.D.	190	5
10726	Phenanthrene	85-01-8	3,900	19	5
10726	Phenol	108-95-2	N.D.	97	5
10726	Pyrene	129-00-0	3,600	19	5
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	97	5
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	97	5
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	97	5

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is compliant.
However, the sample surrogates were outside of QC limits in the re-extraction. All results are reported from the first trial. Similar results were obtained in both trials.

Pesticides/PCBs SW-846 8082			ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.3	1
10736	PCB-1221	11104-28-2	N.D.	5.4	1
10736	PCB-1232	11141-16-5	N.D.	9.5	1

Sample Description: VP-S-SWMU4-SB31-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938124
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:55

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/20/2015 09:35

Reported: 06/30/2015 14:58

N1406 SDG#: NWP14-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1242	53469-21-9	N.D.	3.9	1
10736	PCB-1248	12672-29-6	N.D.	3.9	1
10736	PCB-1254	11097-69-1	N.D.	3.9	1
10736	PCB-1260	11096-82-5	77	5.8	1
10736	Total PCBs	1336-36-3	77	3.9	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	4,440	26.3	5
06944	Antimony	7440-36-0	16.4	1.91	5
06935	Arsenic	7440-38-2	5.59 J	3.71	5
06946	Barium	7440-39-3	462	0.0383	1
06947	Beryllium	7440-41-7	0.598 J	0.389	5
06949	Cadmium	7440-43-9	0.278 J	0.191	5
01650	Calcium	7440-70-2	4,560	4.40	1
06951	Chromium	7440-47-3	131	0.638	5
06952	Cobalt	7440-48-4	9.83	0.557	5
06953	Copper	7440-50-8	195	1.91	5
01654	Iron	7439-89-6	86,300	19.4	5
06955	Lead	7439-92-1	1,020	2.90	5
01657	Magnesium	7439-95-4	1,700	9.69	5
06958	Manganese	7439-96-5	499	0.0963	1
06961	Nickel	7440-02-0	31.0	0.870	5
01662	Potassium	7440-09-7	657	15.1	1
06936	Selenium	7782-49-2	15.6	2.55	5
06966	Silver	7440-22-4	1.16 J	1.10	5
01667	Sodium	7440-23-5	315	19.4	1
06925	Thallium	7440-28-0	N.D.	4.64	5
Reporting limits for ICP metals were raised due to interference from the sample matrix.					
06971	Vanadium	7440-62-2	18.4	0.528	5
06972	Zinc	7440-66-6	373	1.51	5
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0478 J	0.0112	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	15.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Sample Description: VP-S-SWMU4-SB31-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938124
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 08:55

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1406 SDG#: NWP14-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 04:44	Stephanie A Selis	1.52
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:09	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 08:55	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15174SLC026	06/25/2015 02:48	William H Saadeh	5
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15174SLC026	06/24/2015 08:00	Katheryne V Dinan	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151800012A	06/30/2015 12:18	Monica M Souders	1
10497	PCB Microwave Soil Extraction	SW-846 3546	2	151800012A	06/29/2015 19:15	Sally L Appleyard	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:40	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:40	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:40	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:40	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:40	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 12:54	Joanne M Gates	5
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:36	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: VP-S-SWMU4-SB31-9-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938125
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 09:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1407 SDG#: NWP14-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	15 J	6	0.71
10237	Benzene	71-43-2	N.D.	0.4	0.71
10237	Bromobenzene	108-86-1	N.D.	0.9	0.71
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.71
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.71
10237	Bromoform	75-25-2	N.D.	0.9	0.71
10237	Bromomethane	74-83-9	N.D.	2	0.71
10237	2-Butanone	78-93-3	N.D.	4	0.71
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.71
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.71
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.71
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.71
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.71
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.71
10237	Chloroethane	75-00-3	N.D.	2	0.71
10237	Chloroform	67-66-3	N.D.	0.9	0.71
10237	Chloromethane	74-87-3	N.D.	2	0.71
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.71
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.71
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.71
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.71
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.71
10237	Dibromomethane	74-95-3	N.D.	0.9	0.71
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.71
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.71
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.71
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.71
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.71
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.71
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.71
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.71
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.71
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.71
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.71
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.71
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.71
10237	2-Hexanone	591-78-6	N.D.	3	0.71
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.71
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.71
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.71
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.71
10237	Methylene Chloride	75-09-2	N.D.	2	0.71
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.71
10237	Styrene	100-42-5	N.D.	0.9	0.71
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.71
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.71
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.71
10237	Toluene	108-88-3	N.D.	0.9	0.71
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.71
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.71

Sample Description: VP-S-SWMU4-SB31-9-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938125
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 09:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1407 SDG#: NWP14-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.71
10237	Trichloroethene	79-01-6	N.D.	0.9	0.71
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.71
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.71
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.71
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.71
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.71
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.71
10237	o-Xylene	95-47-6	N.D.	0.9	0.71
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	44	4	1
10726	Benzidine	92-87-5	N.D.	880	1
10726	Benzo(a)anthracene	56-55-3	92	4	1
10726	Benzo(a)pyrene	50-32-8	69	4	1
10726	Benzo(b)fluoranthene	205-99-2	120	4	1
10726	Benzo(g,h,i)perylene	191-24-2	82	4	1
10726	Benzo(k)fluoranthene	207-08-9	54	4	1
10726	Benzoic acid	65-85-0	N.D.	210	1
10726	Benzyl alcohol	100-51-6	N.D.	210	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	21	1
10726	Butylbenzylphthalate	85-68-7	N.D.	84	1
10726	Di-n-butylphthalate	84-74-2	N.D.	84	1
10726	Carbazole	86-74-8	23 J	21	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	21	1
10726	4-Chloroaniline	106-47-8	N.D.	42	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	21	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	21	1
10726	2-Chloronaphthalene	91-58-7	N.D.	9	1
10726	2-Chlorophenol	95-57-8	N.D.	21	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	21	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	21	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	170	4	1
10726	Dibenz(a,h)anthracene	53-70-3	33	4	1
10726	Dibenzofuran	132-64-9	190	21	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	21	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	21	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	21	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	130	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	21	1
10726	Diethylphthalate	84-66-2	N.D.	84	1
10726	2,4-Dimethylphenol	105-67-9	36 J	21	1
10726	Dimethylphthalate	131-11-3	N.D.	84	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	210	1

Sample Description: VP-S-SWMU4-SB31-9-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938125
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 09:00

Geosyntec

1420 Kensington Road

Submitted: 06/20/2015 09:35

Suite 103

Reported: 06/30/2015 14:58

Oakbrook IL 60523

N1407 SDG#: NWP14-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	380	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	84	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	21	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	84	1
10726	Fluoranthene	206-44-0	120	4	1
10726	Fluorene	86-73-7	38	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	21	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	210	1
10726	Hexachloroethane	67-72-1	N.D.	42	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	66	4	1
10726	Isophorone	78-59-1	N.D.	21	1
10726	2-Methylnaphthalene	91-57-6	420	4	1
10726	2-Methylphenol	95-48-7	30 J	21	1
10726	4-Methylphenol	106-44-5	34 J	21	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	400	4	1
10726	2-Nitroaniline	88-74-4	N.D.	21	1
10726	3-Nitroaniline	99-09-2	N.D.	84	1
10726	4-Nitroaniline	100-01-6	N.D.	84	1
10726	Nitrobenzene	98-95-3	N.D.	21	1
10726	2-Nitrophenol	88-75-5	N.D.	21	1
10726	4-Nitrophenol	100-02-7	N.D.	210	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	21	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	21	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	84	1
10726	Pentachlorophenol	87-86-5	N.D.	42	1
10726	Phenanthrene	85-01-8	400	4	1
10726	Phenol	108-95-2	34 J	21	1
10726	Pyrene	129-00-0	110	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	21	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	21	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	21	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.5	1
10736	PCB-1221	11104-28-2	N.D.	5.8	1
10736	PCB-1232	11141-16-5	N.D.	10	1
10736	PCB-1242	53469-21-9	N.D.	4.2	1
10736	PCB-1248	12672-29-6	N.D.	4.2	1

Sample Description: VP-S-SWMU4-SB31-9-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938125
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 09:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1407 SDG#: NWP14-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1254	11097-69-1	N.D.	4.2	1
10736	PCB-1260	11096-82-5	N.D.	6.2	1
10736	Total PCBs	1336-36-3	N.D.	4.2	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,320	5.66	1
06944	Antimony	7440-36-0	1.66 J	0.412	1
06935	Arsenic	7440-38-2	2.84	0.798	1
06946	Barium	7440-39-3	48.4	0.0412	1
06947	Beryllium	7440-41-7	0.264 J	0.0835	1
06949	Cadmium	7440-43-9	0.0923 J	0.0412	1
01650	Calcium	7440-70-2	1,560	4.73	1
06951	Chromium	7440-47-3	7.93	0.137	1
06952	Cobalt	7440-48-4	2.55	0.120	1
06953	Copper	7440-50-8	28.4	0.412	1
01654	Iron	7439-89-6	11,900	4.16	1
06955	Lead	7439-92-1	18.0	0.623	1
01657	Magnesium	7439-95-4	1,120	2.08	1
06958	Manganese	7439-96-5	102	0.103	1
06961	Nickel	7440-02-0	8.61	0.187	1
01662	Potassium	7440-09-7	716	16.2	1
06936	Selenium	7782-49-2	1.96 J	0.549	1
06966	Silver	7440-22-4	N.D.	0.237	1
01667	Sodium	7440-23-5	45.5 J	20.8	1
06925	Thallium	7440-28-0	N.D.	0.998	1
06971	Vanadium	7440-62-2	12.9	0.113	1
06972	Zinc	7440-66-6	71.9	0.324	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0146 J	0.0122	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	20.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 05:07	Stephanie A Selis	0.71

Sample Description: VP-S-SWMU4-SB31-9-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938125
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 09:00

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1407 SDG#: NWP14-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:09	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 09:00	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 15:18	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
10736	PCBs in Soil (microwave)	SW-846 8082	1	151740025A	06/27/2015 13:59	Jessica L Miller	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151740025A	06/23/2015 22:55	Karen L Beyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:43	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:38	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: PLA-S-GP-SB03-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938126
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:10

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1408 SDG#: NWP14-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.8
10237	Benzene	71-43-2	N.D.	0.5	0.8
10237	Bromobenzene	108-86-1	N.D.	0.9	0.8
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.8
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.8
10237	Bromoform	75-25-2	N.D.	0.9	0.8
10237	Bromomethane	74-83-9	N.D.	2	0.8
10237	2-Butanone	78-93-3	N.D.	4	0.8
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.8
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.8
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.8
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.8
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.8
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.8
10237	Chloroethane	75-00-3	N.D.	2	0.8
10237	Chloroform	67-66-3	N.D.	0.9	0.8
10237	Chloromethane	74-87-3	N.D.	2	0.8
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.8
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.8
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.8
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.8
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.8
10237	Dibromomethane	74-95-3	N.D.	0.9	0.8
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.8
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.8
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.8
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.8
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.8
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.8
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.8
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.8
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.8
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.8
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.8
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.8
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.8
10237	2-Hexanone	591-78-6	N.D.	3	0.8
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.8
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.8
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.8
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.8
10237	Methylene Chloride	75-09-2	N.D.	2	0.8
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.8
10237	Styrene	100-42-5	N.D.	0.9	0.8
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.8
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.8
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.8
10237	Toluene	108-88-3	N.D.	0.9	0.8
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.8
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.8

Sample Description: PLA-S-GP-SB03-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938126
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:10

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1408 SDG#: NWP14-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.8
10237	Trichloroethene	79-01-6	2 J	0.9	0.8
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.8
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.8
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.8
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.8
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.8
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.8
10237	o-Xylene	95-47-6	N.D.	0.9	0.8
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benizidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	6 J	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	4	1
10726	Benzo(g,h,i)perylene	191-24-2	10 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	76	1
10726	Di-n-butylphthalate	84-74-2	N.D.	76	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	11 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	76	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	76	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-GP-SB03-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938126
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:10

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1408 SDG#: NWP14-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	76	1
10726	4-Nitroaniline	100-01-6	N.D.	76	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	76	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	N.D.	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,240	5.07	1
06944	Antimony	7440-36-0	3.03	0.368	1
06935	Arsenic	7440-38-2	15.3	0.715	1
06946	Barium	7440-39-3	17.5	0.0368	1
06947	Beryllium	7440-41-7	0.470 J	0.0748	1

Sample Description: PLA-S-GP-SB03-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938126
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:10

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1408 SDG#: NWP14-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.151 J	0.0368	1
01650	Calcium	7440-70-2	4,730	4.23	1
06951	Chromium	7440-47-3	14.9	0.123	1
06952	Cobalt	7440-48-4	9.06	0.107	1
06953	Copper	7440-50-8	25.2	0.368	1
01654	Iron	7439-89-6	21,100	3.73	1
06955	Lead	7439-92-1	19.6	0.558	1
01657	Magnesium	7439-95-4	3,600	1.86	1
06958	Manganese	7439-96-5	288	0.0927	1
06961	Nickel	7440-02-0	21.9	0.167	1
01662	Potassium	7440-09-7	1,780	14.5	1
06936	Selenium	7782-49-2	3.34	0.491	1
06966	Silver	7440-22-4	N.D.	0.212	1
01667	Sodium	7440-23-5	36.3 J	18.6	1
06925	Thallium	7440-28-0	1.49 J	0.893	1
06971	Vanadium	7440-62-2	17.3	0.102	1
06972	Zinc	7440-66-6	143	0.290	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0182 J	0.0111	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	12.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 05:03	Sara E Johnson	0.8
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:08	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 13:10	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 15:41	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:46	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:46	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:46	Joanne M Gates	1

Sample Description: PLA-S-GP-SB03-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938126
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:10

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1408 SDG#: NWP14-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015	11:46	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015	07:40	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015	21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015	16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015	10:28	William C Schwebel	1

Sample Description: PLA-S-GP-SB03-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938127
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1409 SDG#: NWP14-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.75
10237	Benzene	71-43-2	N.D.	0.4	0.75
10237	Bromobenzene	108-86-1	N.D.	0.9	0.75
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.75
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.75
10237	Bromoform	75-25-2	N.D.	0.9	0.75
10237	Bromomethane	74-83-9	N.D.	2	0.75
10237	2-Butanone	78-93-3	N.D.	3	0.75
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.75
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.75
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.75
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.75
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.75
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.75
10237	Chloroethane	75-00-3	N.D.	2	0.75
10237	Chloroform	67-66-3	N.D.	0.9	0.75
10237	Chloromethane	74-87-3	N.D.	2	0.75
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.75
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.75
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.75
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.75
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.75
10237	Dibromomethane	74-95-3	N.D.	0.9	0.75
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.75
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.75
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.75
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.75
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.75
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.75
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.75
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.75
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.75
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.75
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.75
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.75
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.75
10237	2-Hexanone	591-78-6	N.D.	3	0.75
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.75
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.75
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.75
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.75
10237	Methylene Chloride	75-09-2	N.D.	2	0.75
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.75
10237	Styrene	100-42-5	N.D.	0.9	0.75
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.75
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.75
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.75
10237	Toluene	108-88-3	N.D.	0.9	0.75
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.75
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.75

Sample Description: PLA-S-GP-SB03-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938127
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1409 SDG#: NWP14-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.75
10237	Trichloroethene	79-01-6	1 J	0.9	0.75
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.75
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.75
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.75
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.75
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.75
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.75
10237	o-Xylene	95-47-6	N.D.	0.9	0.75
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,300	4	1
10726	Acenaphthylene	208-96-8	120	4	1
10726	Anthracene	120-12-7	2,100	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	2,900	4	1
10726	Benzo(a)pyrene	50-32-8	2,500	4	1
10726	Benzo(b)fluoranthene	205-99-2	2,900	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,600	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,200	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	76	1
10726	Di-n-butylphthalate	84-74-2	N.D.	76	1
10726	Carbazole	86-74-8	860	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	2,800	4	1
10726	Dibenz(a,h)anthracene	53-70-3	420	4	1
10726	Dibenzofuran	132-64-9	830	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	76	1
10726	2,4-Dimethylphenol	105-67-9	36 J	19	1
10726	Dimethylphthalate	131-11-3	N.D.	76	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-GP-SB03-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938127
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1409 SDG#: NWP14-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
10726	Fluoranthene	206-44-0	6,100	19	5
10726	Fluorene	86-73-7	1,200	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,400	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	690	4	1
10726	2-Methylphenol	95-48-7	32 J	19	1
10726	4-Methylphenol	106-44-5	70	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	2,000	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	76	1
10726	4-Nitroaniline	100-01-6	N.D.	76	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	31 J	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	76	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	7,100	19	5
10726	Phenol	108-95-2	51	19	1
10726	Pyrene	129-00-0	5,100	19	5
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,000	5.07	1
06944	Antimony	7440-36-0	2.16 J	0.368	1
06935	Arsenic	7440-38-2	8.49	0.714	1
06946	Barium	7440-39-3	40.9	0.0368	1
06947	Beryllium	7440-41-7	0.547 J	0.0748	1

Sample Description: PLA-S-GP-SB03-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938127
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1409 SDG#: NWP14-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
06949	Cadmium	7440-43-9	0.175 J	0.0368	1
01650	Calcium	7440-70-2	1,460	4.23	1
06951	Chromium	7440-47-3	12.0	0.123	1
06952	Cobalt	7440-48-4	8.40	0.107	1
06953	Copper	7440-50-8	32.8	0.368	1
01654	Iron	7439-89-6	17,600	3.73	1
06955	Lead	7439-92-1	41.0	0.558	1
01657	Magnesium	7439-95-4	1,990	1.86	1
06958	Manganese	7439-96-5	314	0.0926	1
06961	Nickel	7440-02-0	19.6	0.167	1
01662	Potassium	7440-09-7	1,420	14.5	1
06936	Selenium	7782-49-2	2.53	0.491	1
06966	Silver	7440-22-4	N.D.	0.212	1
01667	Sodium	7440-23-5	29.0 J	18.6	1
06925	Thallium	7440-28-0	0.931 J	0.893	1
06971	Vanadium	7440-62-2	19.9	0.102	1
06972	Zinc	7440-66-6	224	0.290	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.153	0.0111	1
Wet Chemistry			%	%	
SM 2540 G-1997					
00111	Moisture	n.a.	13.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 05:30	Stephanie A Selis	0.75
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:08	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 13:15	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 16:05	Linda M Hartenstine	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 23:46	William H Saadeh	5
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1

Sample Description: PLA-S-GP-SB03-3-4 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938127
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 13:15

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Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1409 SDG#: NWP14-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:49	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:42	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: PLA-S-GP-SB02-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938128
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1410 SDG#: NWP14-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.88
10237	Benzene	71-43-2	N.D.	0.5	0.88
10237	Bromobenzene	108-86-1	N.D.	1	0.88
10237	Bromochloromethane	74-97-5	N.D.	1	0.88
10237	Bromodichloromethane	75-27-4	N.D.	1	0.88
10237	Bromoform	75-25-2	N.D.	1	0.88
10237	Bromomethane	74-83-9	N.D.	2	0.88
10237	2-Butanone	78-93-3	N.D.	4	0.88
10237	n-Butylbenzene	104-51-8	N.D.	1	0.88
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.88
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.88
10237	Carbon Disulfide	75-15-0	N.D.	1	0.88
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.88
10237	Chlorobenzene	108-90-7	N.D.	1	0.88
10237	Chloroethane	75-00-3	N.D.	2	0.88
10237	Chloroform	67-66-3	N.D.	1	0.88
10237	Chloromethane	74-87-3	N.D.	2	0.88
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.88
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.88
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.88
10237	Dibromochloromethane	124-48-1	N.D.	1	0.88
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.88
10237	Dibromomethane	74-95-3	N.D.	1	0.88
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.88
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.88
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.88
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.88
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.88
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.88
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.88
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.88
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.88
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.88
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.88
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.88
10237	Ethylbenzene	100-41-4	N.D.	1	0.88
10237	2-Hexanone	591-78-6	N.D.	3	0.88
10237	Isopropylbenzene	98-82-8	N.D.	1	0.88
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.88
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.88
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.88
10237	Methylene Chloride	75-09-2	N.D.	2	0.88
10237	n-Propylbenzene	103-65-1	N.D.	1	0.88
10237	Styrene	100-42-5	N.D.	1	0.88
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.88
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.88
10237	Tetrachloroethene	127-18-4	N.D.	1	0.88
10237	Toluene	108-88-3	N.D.	1	0.88
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.88
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.88

Sample Description: PLA-S-GP-SB02-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938128
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1410 SDG#: NWP14-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.88
10237	Trichloroethene	79-01-6	N.D.	1	0.88
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.88
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.88
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.88
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.88
10237	Vinyl Chloride	75-01-4	N.D.	1	0.88
10237	m+p-Xylene	179601-23-1	N.D.	1	0.88
10237	o-Xylene	95-47-6	N.D.	1	0.88

The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	18 J	4	1
10726	Anthracene	120-12-7	43	4	1
10726	Benzidine	92-87-5	N.D.	810	1
10726	Benzo(a)anthracene	56-55-3	110	4	1
10726	Benzo(a)pyrene	50-32-8	92	4	1
10726	Benzo(b)fluoranthene	205-99-2	130	4	1
10726	Benzo(g,h,i)perylene	191-24-2	74	4	1
10726	Benzo(k)fluoranthene	207-08-9	33	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	77	1
10726	Di-n-butylphthalate	84-74-2	N.D.	77	1
10726	Carbazole	86-74-8	23 J	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	39	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	130	4	1
10726	Dibenz(a,h)anthracene	53-70-3	27	4	1
10726	Dibenzofuran	132-64-9	58	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1

Sample Description: PLA-S-GP-SB02-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938128
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1410 SDG#: NWP14-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	77	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	77	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	350	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	77	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	77	1
10726	Fluoranthene	206-44-0	140	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	39	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	53	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	150	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	88	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	77	1
10726	4-Nitroaniline	100-01-6	N.D.	77	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	77	1
10726	Pentachlorophenol	87-86-5	N.D.	39	1
10726	Phenanthrene	85-01-8	340	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	160	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals SW-846 6010B mg/kg mg/kg

Sample Description: PLA-S-GP-SB02-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938128
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1410 SDG#: NWP14-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	7,260	5.30	1
06944	Antimony	7440-36-0	8.81	0.385	1
06935	Arsenic	7440-38-2	9.91	0.747	1
06946	Barium	7440-39-3	96.2	0.0385	1
06947	Beryllium	7440-41-7	1.24	0.0782	1
06949	Cadmium	7440-43-9	0.212 J	0.0385	1
01650	Calcium	7440-70-2	8,130	4.42	1
06951	Chromium	7440-47-3	12.0	0.128	1
06952	Cobalt	7440-48-4	6.76	0.112	1
06953	Copper	7440-50-8	61.9	0.385	1
01654	Iron	7439-89-6	33,600	19.5	5
06955	Lead	7439-92-1	87.7	0.583	1
01657	Magnesium	7439-95-4	2,960	1.95	1
06958	Manganese	7439-96-5	334	0.0968	1
06961	Nickel	7440-02-0	22.1	0.175	1
01662	Potassium	7440-09-7	1,010	15.2	1
06936	Selenium	7782-49-2	6.58	0.513	1
06966	Silver	7440-22-4	1.24	0.222	1
01667	Sodium	7440-23-5	215	19.5	1
06925	Thallium	7440-28-0	1.48 J	0.933	1
06971	Vanadium	7440-62-2	25.0	0.106	1
06972	Zinc	7440-66-6	226	0.303	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0642 J	0.0113	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	14.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 05:48	Sara E Johnson	0.88
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:08	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 11:20	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 16:28	Linda M Hartenstine	1

Sample Description: PLA-S-GP-SB02-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938128
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:20

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1410 SDG#: NWP14-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 20:36	Katlin N Cataldi	5
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:52	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:44	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: PLA-S-GP-SB02-4.5-5.5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938129
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1411 SDG#: NWP14-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.73
10237	Benzene	71-43-2	N.D.	0.4	0.73
10237	Bromobenzene	108-86-1	N.D.	0.8	0.73
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.73
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.73
10237	Bromoform	75-25-2	N.D.	0.8	0.73
10237	Bromomethane	74-83-9	N.D.	2	0.73
10237	2-Butanone	78-93-3	N.D.	3	0.73
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.73
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.73
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.73
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.73
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.73
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.73
10237	Chloroethane	75-00-3	N.D.	2	0.73
10237	Chloroform	67-66-3	N.D.	0.8	0.73
10237	Chloromethane	74-87-3	N.D.	2	0.73
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.73
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.73
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.73
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.73
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.73
10237	Dibromomethane	74-95-3	N.D.	0.8	0.73
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.73
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.73
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.73
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.73
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.73
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.73
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.73
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.73
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.73
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.73
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.73
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.73
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.73
10237	2-Hexanone	591-78-6	N.D.	2	0.73
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.73
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.73
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.73
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.73
10237	Methylene Chloride	75-09-2	N.D.	2	0.73
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.73
10237	Styrene	100-42-5	N.D.	0.8	0.73
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.73
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.73
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.73
10237	Toluene	108-88-3	N.D.	0.8	0.73
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.73
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.73

Sample Description: PLA-S-GP-SB02-4.5-5.5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938129
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1411 SDG#: NWP14-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.73
10237	Trichloroethene	79-01-6	N.D.	0.8	0.73
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.73
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.73
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.73
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.73
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.73
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.73
10237	o-Xylene	95-47-6	N.D.	0.8	0.73
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benizidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	5 J	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	4	1
10726	Benzo(g,h,i)perylene	191-24-2	14 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	75	1
10726	Di-n-butylphthalate	84-74-2	N.D.	75	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	5 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	11 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	75	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-GP-SB02-4.5-5.5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938129
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1411 SDG#: NWP14-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	75	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	75	1
10726	Fluoranthene	206-44-0	6 J	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	75	1
10726	4-Nitroaniline	100-01-6	N.D.	75	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	75	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	4 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,170	4.95	1
06944	Antimony	7440-36-0	1.15 J	0.360	1
06935	Arsenic	7440-38-2	5.40	0.698	1
06946	Barium	7440-39-3	36.4	0.0360	1
06947	Beryllium	7440-41-7	0.413 J	0.0731	1

Sample Description: PLA-S-GP-SB02-4.5-5.5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938129
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1411 SDG#: NWP14-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0360	1
01650	Calcium	7440-70-2	827	4.13	1
06951	Chromium	7440-47-3	11.3	0.120	1
06952	Cobalt	7440-48-4	5.29	0.105	1
06953	Copper	7440-50-8	11.0	0.360	1
01654	Iron	7439-89-6	11,800	3.64	1
06955	Lead	7439-92-1	11.1	0.545	1
01657	Magnesium	7439-95-4	1,470	1.82	1
06958	Manganese	7439-96-5	224	0.0905	1
06961	Nickel	7440-02-0	11.0	0.164	1
01662	Potassium	7440-09-7	865	14.2	1
06936	Selenium	7782-49-2	2.08 J	0.480	1
06966	Silver	7440-22-4	N.D.	0.207	1
01667	Sodium	7440-23-5	20.3 J	18.2	1
06925	Thallium	7440-28-0	N.D.	0.873	1
06971	Vanadium	7440-62-2	20.1	0.0993	1
06972	Zinc	7440-66-6	49.1	0.284	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0157 J	0.0105	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	11.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151764AA	06/26/2015 06:11	Sara E Johnson	0.73
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:08	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:08	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 11:25	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 16:51	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1

Sample Description: PLA-S-GP-SB02-4.5-5.5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938129
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:25

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1411 SDG#: NWP14-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:55	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:46	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: PLA-S-ROAD-SB10-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938130
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1412 SDG#: NWP14-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.71
10237	Benzene	71-43-2	N.D.	0.4	0.71
10237	Bromobenzene	108-86-1	N.D.	0.8	0.71
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.71
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.71
10237	Bromoform	75-25-2	N.D.	0.8	0.71
10237	Bromomethane	74-83-9	N.D.	2	0.71
10237	2-Butanone	78-93-3	N.D.	3	0.71
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.71
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.71
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.71
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.71
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.71
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.71
10237	Chloroethane	75-00-3	N.D.	2	0.71
10237	Chloroform	67-66-3	N.D.	0.8	0.71
10237	Chloromethane	74-87-3	N.D.	2	0.71
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.71
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.71
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.71
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.71
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.71
10237	Dibromomethane	74-95-3	N.D.	0.8	0.71
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.71
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.71
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.71
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.71
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.71
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.71
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.71
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.71
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.71
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.71
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.71
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.71
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.71
10237	2-Hexanone	591-78-6	N.D.	2	0.71
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.71
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.71
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.71
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.71
10237	Methylene Chloride	75-09-2	N.D.	2	0.71
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.71
10237	Styrene	100-42-5	N.D.	0.8	0.71
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.71
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.71
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.71
10237	Toluene	108-88-3	N.D.	0.8	0.71
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.71
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.71

Sample Description: PLA-S-ROAD-SB10-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938130
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1412 SDG#: NWP14-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.71
10237	Trichloroethene	79-01-6	N.D.	0.8	0.71
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.71
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.71
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.71
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.71
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.71
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.71
10237	o-Xylene	95-47-6	N.D.	0.8	0.71
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	800	1
10726	Benzo(a)anthracene	56-55-3	6 J	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	4	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	76	1
10726	Di-n-butylphthalate	84-74-2	N.D.	76	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	5 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	76	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	76	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-ROAD-SB10-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938130
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1412 SDG#: NWP14-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	76	1
10726	4-Nitroaniline	100-01-6	N.D.	76	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	76	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	5 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	4,700	5.18	1
06944	Antimony	7440-36-0	1.57 J	0.376	1
06935	Arsenic	7440-38-2	8.14	0.730	1
06946	Barium	7440-39-3	19.2	0.0376	1
06947	Beryllium	7440-41-7	0.325 J	0.0764	1

Sample Description: PLA-S-ROAD-SB10-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938130
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1412 SDG#: NWP14-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.170 J	0.0376	1
01650	Calcium	7440-70-2	53,600	4.32	1
06951	Chromium	7440-47-3	7.22	0.125	1
06952	Cobalt	7440-48-4	5.49	0.110	1
06953	Copper	7440-50-8	16.8	0.376	1
01654	Iron	7439-89-6	12,900	3.81	1
06955	Lead	7439-92-1	12.2	0.570	1
01657	Magnesium	7439-95-4	31,000	1.90	1
06958	Manganese	7439-96-5	214	0.0947	1
06961	Nickel	7440-02-0	12.4	0.171	1
01662	Potassium	7440-09-7	1,310	14.8	1
06936	Selenium	7782-49-2	2.03 J	0.502	1
06966	Silver	7440-22-4	N.D.	0.217	1
01667	Sodium	7440-23-5	73.7 J	19.0	1
06925	Thallium	7440-28-0	N.D.	0.913	1
06971	Vanadium	7440-62-2	12.5	0.104	1
06972	Zinc	7440-66-6	90.2	0.297	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0393 J	0.0106	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	13.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 06:15	Stephanie A Selis	0.71
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:08	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:08	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 12:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 17:15	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1

Sample Description: PLA-S-ROAD-SB10-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938130
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1412 SDG#: NWP14-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 11:58	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:48	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: PLA-S-ROAD-SB10-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938131
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1413 SDG#: NWP14-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	48	7	0.82
10237	Benzene	71-43-2	N.D.	0.5	0.82
10237	Bromobenzene	108-86-1	N.D.	1	0.82
10237	Bromochloromethane	74-97-5	N.D.	1	0.82
10237	Bromodichloromethane	75-27-4	N.D.	1	0.82
10237	Bromoform	75-25-2	N.D.	1	0.82
10237	Bromomethane	74-83-9	N.D.	2	0.82
10237	2-Butanone	78-93-3	9 J	4	0.82
10237	n-Butylbenzene	104-51-8	N.D.	1	0.82
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.82
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.82
10237	Carbon Disulfide	75-15-0	2 J	1	0.82
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.82
10237	Chlorobenzene	108-90-7	N.D.	1	0.82
10237	Chloroethane	75-00-3	N.D.	2	0.82
10237	Chloroform	67-66-3	N.D.	1	0.82
10237	Chloromethane	74-87-3	N.D.	2	0.82
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.82
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.82
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.82
10237	Dibromochloromethane	124-48-1	N.D.	1	0.82
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.82
10237	Dibromomethane	74-95-3	N.D.	1	0.82
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.82
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.82
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.82
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.82
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.82
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.82
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.82
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.82
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.82
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.82
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.82
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.82
10237	Ethylbenzene	100-41-4	N.D.	1	0.82
10237	2-Hexanone	591-78-6	N.D.	3	0.82
10237	Isopropylbenzene	98-82-8	N.D.	1	0.82
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.82
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.82
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.82
10237	Methylene Chloride	75-09-2	N.D.	2	0.82
10237	n-Propylbenzene	103-65-1	N.D.	1	0.82
10237	Styrene	100-42-5	N.D.	1	0.82
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.82
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.82
10237	Tetrachloroethene	127-18-4	N.D.	1	0.82
10237	Toluene	108-88-3	N.D.	1	0.82
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.82
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.82

Sample Description: PLA-S-ROAD-SB10-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938131
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1413 SDG#: NWP14-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/kg					
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.82
10237	Trichloroethene	79-01-6	N.D.	1	0.82
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.82
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.82
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.82
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.82
10237	Vinyl Chloride	75-01-4	N.D.	1	0.82
10237	m+p-Xylene	179601-23-1	N.D.	1	0.82
10237	o-Xylene	95-47-6	N.D.	1	0.82
GC/MS Semivolatiles SW-846 8270D ug/kg					
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	11 J	4	1
10726	Benzidine	92-87-5	N.D.	890	1
10726	Benzo(a)anthracene	56-55-3	21 J	4	1
10726	Benzo(a)pyrene	50-32-8	500	4	1
10726	Benzo(b)fluoranthene	205-99-2	28	4	1
10726	Benzo(g,h,i)perylene	191-24-2	33	4	1
10726	Benzo(k)fluoranthene	207-08-9	15 J	4	1
10726	Benzoic acid	65-85-0	N.D.	210	1
10726	Benzyl alcohol	100-51-6	N.D.	210	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	21	1
10726	Butylbenzylphthalate	85-68-7	N.D.	85	1
10726	Di-n-butylphthalate	84-74-2	N.D.	85	1
10726	Carbazole	86-74-8	N.D.	21	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	21	1
10726	4-Chloroaniline	106-47-8	N.D.	43	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	21	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	21	1
10726	2-Chloronaphthalene	91-58-7	N.D.	9	1
10726	2-Chlorophenol	95-57-8	N.D.	21	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	21	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	21	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	29	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	21	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	21	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	21	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	21	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	130	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	21	1
10726	Diethylphthalate	84-66-2	N.D.	85	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	21	1
10726	Dimethylphthalate	131-11-3	N.D.	85	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	210	1

Sample Description: PLA-S-ROAD-SB10-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938131
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1413 SDG#: NWP14-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	380	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	85	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	21	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	85	1
10726	Fluoranthene	206-44-0	36	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	21	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	210	1
10726	Hexachloroethane	67-72-1	N.D.	43	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	22	4	1
10726	Isophorone	78-59-1	N.D.	21	1
10726	2-Methylnaphthalene	91-57-6	9 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	21	1
10726	4-Methylphenol	106-44-5	N.D.	21	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	13 J	4	1
10726	2-Nitroaniline	88-74-4	N.D.	21	1
10726	3-Nitroaniline	99-09-2	N.D.	85	1
10726	4-Nitroaniline	100-01-6	N.D.	85	1
10726	Nitrobenzene	98-95-3	N.D.	21	1
10726	2-Nitrophenol	88-75-5	N.D.	21	1
10726	4-Nitrophenol	100-02-7	N.D.	210	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	21	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	21	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	85	1
10726	Pentachlorophenol	87-86-5	N.D.	43	1
10726	Phenanthrene	85-01-8	32	4	1
10726	Phenol	108-95-2	N.D.	21	1
10726	Pyrene	129-00-0	40	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	21	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	21	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	21	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,540	5.71	1
06944	Antimony	7440-36-0	1.47 J	0.415	1
06935	Arsenic	7440-38-2	7.26	0.804	1
06946	Barium	7440-39-3	47.2	0.0415	1
06947	Beryllium	7440-41-7	0.484 J	0.0842	1

Sample Description: PLA-S-ROAD-SB10-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938131
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1413 SDG#: NWP14-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06949	Cadmium	7440-43-9	0.0804 J	0.0415	1
01650	Calcium	7440-70-2	22,200	4.76	1
06951	Chromium	7440-47-3	11.2	0.138	1
06952	Cobalt	7440-48-4	6.10	0.121	1
06953	Copper	7440-50-8	19.1	0.415	1
01654	Iron	7439-89-6	13,600	4.20	1
06955	Lead	7439-92-1	38.1	0.628	1
01657	Magnesium	7439-95-4	2,610	2.10	1
06958	Manganese	7439-96-5	249	0.104	1
06961	Nickel	7440-02-0	17.5	0.189	1
01662	Potassium	7440-09-7	1,250	16.3	1
06936	Selenium	7782-49-2	2.18 J	0.553	1
06966	Silver	7440-22-4	N.D.	0.239	1
01667	Sodium	7440-23-5	152	21.0	1
06925	Thallium	7440-28-0	N.D.	1.01	1
06971	Vanadium	7440-62-2	17.6	0.114	1
06972	Zinc	7440-66-6	120	0.327	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0521 J	0.0127	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	22.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151771AA	06/26/2015 12:31	Angela D Sneeringer	0.82
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:08	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:08	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 12:35	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 17:38	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 12:01	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 12:01	Joanne M Gates	1

Sample Description: PLA-S-ROAD-SB10-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938131
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 12:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1413 SDG#: NWP14-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015	12:01	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015	07:50	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015	21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015	16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015	10:28	William C Schwebel	1

Sample Description: PLA-S-GP-SB01-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938132
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1414 SDG#: NWP14-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	9	1.04
10237	Benzene	71-43-2	N.D.	0.6	1.04
10237	Bromobenzene	108-86-1	N.D.	1	1.04
10237	Bromochloromethane	74-97-5	N.D.	1	1.04
10237	Bromodichloromethane	75-27-4	N.D.	1	1.04
10237	Bromoform	75-25-2	N.D.	1	1.04
10237	Bromomethane	74-83-9	N.D.	3	1.04
10237	2-Butanone	78-93-3	N.D.	5	1.04
10237	n-Butylbenzene	104-51-8	N.D.	1	1.04
10237	sec-Butylbenzene	135-98-8	N.D.	1	1.04
10237	tert-Butylbenzene	98-06-6	N.D.	1	1.04
10237	Carbon Disulfide	75-15-0	N.D.	1	1.04
10237	Carbon Tetrachloride	56-23-5	15	1	1.04
10237	Chlorobenzene	108-90-7	N.D.	1	1.04
10237	Chloroethane	75-00-3	N.D.	3	1.04
10237	Chloroform	67-66-3	2 J	1	1.04
10237	Chloromethane	74-87-3	N.D.	3	1.04
10237	2-Chlorotoluene	95-49-8	N.D.	1	1.04
10237	4-Chlorotoluene	106-43-4	N.D.	1	1.04
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	3	1.04
10237	Dibromochloromethane	124-48-1	N.D.	1	1.04
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1.04
10237	Dibromomethane	74-95-3	N.D.	1	1.04
10237	Dichlorodifluoromethane	75-71-8	N.D.	3	1.04
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1.04
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1.04
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1.04
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1.04
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1.04
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1.04
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1.04
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1.04
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1.04
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1.04
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1.04
10237	Ethylbenzene	100-41-4	N.D.	1	1.04
10237	2-Hexanone	591-78-6	N.D.	4	1.04
10237	Isopropylbenzene	98-82-8	N.D.	1	1.04
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1.04
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.6	1.04
10237	4-Methyl-2-pentanone	108-10-1	N.D.	4	1.04
10237	Methylene Chloride	75-09-2	N.D.	3	1.04
10237	n-Propylbenzene	103-65-1	N.D.	1	1.04
10237	Styrene	100-42-5	N.D.	1	1.04
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1.04
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1.04
10237	Tetrachloroethene	127-18-4	N.D.	1	1.04
10237	Toluene	108-88-3	N.D.	1	1.04
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1.04
10237	1,1,1-Trichloroethane	71-55-6	4 J	1	1.04

Sample Description: PLA-S-GP-SB01-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938132
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1414 SDG#: NWP14-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1.04
10237	Trichloroethene	79-01-6	N.D.	1	1.04
10237	Trichlorofluoromethane	75-69-4	N.D.	3	1.04
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1.04
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1.04
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1.04
10237	Vinyl Chloride	75-01-4	N.D.	1	1.04
10237	m+p-Xylene	179601-23-1	N.D.	1	1.04
10237	o-Xylene	95-47-6	N.D.	1	1.04
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	33	4	1
10726	Acenaphthylene	208-96-8	34	4	1
10726	Anthracene	120-12-7	130	4	1
10726	Benzidine	92-87-5	N.D.	840	1
10726	Benzo(a)anthracene	56-55-3	170	4	1
10726	Benzo(a)pyrene	50-32-8	100	4	1
10726	Benzo(b)fluoranthene	205-99-2	110	4	1
10726	Benzo(g,h,i)perylene	191-24-2	81	4	1
10726	Benzo(k)fluoranthene	207-08-9	38	4	1
10726	Benzoic acid	65-85-0	N.D.	200	1
10726	Benzyl alcohol	100-51-6	N.D.	200	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	20	1
10726	Butylbenzylphthalate	85-68-7	N.D.	80	1
10726	Di-n-butylphthalate	84-74-2	N.D.	80	1
10726	Carbazole	86-74-8	N.D.	20	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	20	1
10726	4-Chloroaniline	106-47-8	N.D.	40	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	20	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	20	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	20	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	20	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	20	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	210	4	1
10726	Dibenz(a,h)anthracene	53-70-3	31	4	1
10726	Dibenzofuran	132-64-9	74	20	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	20	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	20	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	20	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	20	1
10726	Diethylphthalate	84-66-2	N.D.	80	1
10726	2,4-Dimethylphenol	105-67-9	22	20	1
10726	Dimethylphthalate	131-11-3	N.D.	80	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	200	1

Sample Description: PLA-S-GP-SB01-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938132
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1414 SDG#: NWP14-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	360	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	80	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	20	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	80	1
10726	Fluoranthene	206-44-0	280	4	1
10726	Fluorene	86-73-7	32	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	20	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	200	1
10726	Hexachloroethane	67-72-1	N.D.	40	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	51	4	1
10726	Isophorone	78-59-1	N.D.	20	1
10726	2-Methylnaphthalene	91-57-6	210	4	1
10726	2-Methylphenol	95-48-7	N.D.	20	1
10726	4-Methylphenol	106-44-5	42	20	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	140	4	1
10726	2-Nitroaniline	88-74-4	N.D.	20	1
10726	3-Nitroaniline	99-09-2	N.D.	80	1
10726	4-Nitroaniline	100-01-6	N.D.	80	1
10726	Nitrobenzene	98-95-3	N.D.	20	1
10726	2-Nitrophenol	88-75-5	N.D.	20	1
10726	4-Nitrophenol	100-02-7	N.D.	200	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	20	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	20	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	80	1
10726	Pentachlorophenol	87-86-5	N.D.	40	1
10726	Phenanthrene	85-01-8	690	4	1
10726	Phenol	108-95-2	N.D.	20	1
10726	Pyrene	129-00-0	270	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	20	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	20	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	20	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,430	26.9	5
06944	Antimony	7440-36-0	18.0	1.95	5
06935	Arsenic	7440-38-2	14.4	3.79	5
06946	Barium	7440-39-3	84.7	0.0391	1
06947	Beryllium	7440-41-7	1.50	0.397	5

Sample Description: PLA-S-GP-SB01-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938132
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

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Suite 103

Oakbrook IL 60523

N1414 SDG#: NWP14-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06949	Cadmium	7440-43-9	12.7	0.195	5
01650	Calcium	7440-70-2	4,560	4.49	1
06951	Chromium	7440-47-3	44.6	0.651	5
06952	Cobalt	7440-48-4	13.1	0.568	5
06953	Copper	7440-50-8	606	1.95	5
01654	Iron	7439-89-6	154,000	19.8	5
06955	Lead	7439-92-1	70.7	2.96	5
01657	Magnesium	7439-95-4	547	9.89	5
06958	Manganese	7439-96-5	1,080	0.491	5
06961	Nickel	7440-02-0	85.8	0.888	5
01662	Potassium	7440-09-7	565	15.4	1
06936	Selenium	7782-49-2	27.5	2.60	5
06966	Silver	7440-22-4	6.14	1.12	5
01667	Sodium	7440-23-5	104 J	19.8	1
06925	Thallium	7440-28-0	N.D.	4.74	5
Reporting limits for ICP metals were raised due to interference from the sample matrix.					
06971	Vanadium	7440-62-2	41.5	0.539	5
06972	Zinc	7440-66-6	4,000	1.54	5
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0135 J	0.0115	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	17.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151771AA	06/26/2015 12:54	Angela D Sneeringer	1.04
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:09	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 11:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 18:01	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1

Sample Description: PLA-S-GP-SB01-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938132
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:30

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

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Suite 103

Oakbrook IL 60523

N1414 SDG#: NWP14-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015 12:10	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015 12:10	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015 12:10	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015 12:10	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015 12:57	Joanne M Gates	5
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015 07:52	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015 21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015 16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015 10:28	William C Schwebel	1

Sample Description: PLA-S-GP-SB01-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938133
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:35

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Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1415 SDG#: NWP14-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	1.03
10237	Benzene	71-43-2	N.D.	0.6	1.03
10237	Bromobenzene	108-86-1	N.D.	1	1.03
10237	Bromochloromethane	74-97-5	N.D.	1	1.03
10237	Bromodichloromethane	75-27-4	N.D.	1	1.03
10237	Bromoform	75-25-2	N.D.	1	1.03
10237	Bromomethane	74-83-9	N.D.	2	1.03
10237	2-Butanone	78-93-3	N.D.	5	1.03
10237	n-Butylbenzene	104-51-8	N.D.	1	1.03
10237	sec-Butylbenzene	135-98-8	N.D.	1	1.03
10237	tert-Butylbenzene	98-06-6	N.D.	1	1.03
10237	Carbon Disulfide	75-15-0	N.D.	1	1.03
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1.03
10237	Chlorobenzene	108-90-7	N.D.	1	1.03
10237	Chloroethane	75-00-3	N.D.	2	1.03
10237	Chloroform	67-66-3	N.D.	1	1.03
10237	Chloromethane	74-87-3	N.D.	2	1.03
10237	2-Chlorotoluene	95-49-8	N.D.	1	1.03
10237	4-Chlorotoluene	106-43-4	N.D.	1	1.03
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1.03
10237	Dibromochloromethane	124-48-1	N.D.	1	1.03
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1.03
10237	Dibromomethane	74-95-3	N.D.	1	1.03
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1.03
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1.03
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1.03
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1.03
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1.03
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1.03
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1.03
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1.03
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1.03
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1.03
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1.03
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1.03
10237	Ethylbenzene	100-41-4	N.D.	1	1.03
10237	2-Hexanone	591-78-6	N.D.	4	1.03
10237	Isopropylbenzene	98-82-8	N.D.	1	1.03
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1.03
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.6	1.03
10237	4-Methyl-2-pentanone	108-10-1	N.D.	4	1.03
10237	Methylene Chloride	75-09-2	N.D.	2	1.03
10237	n-Propylbenzene	103-65-1	N.D.	1	1.03
10237	Styrene	100-42-5	N.D.	1	1.03
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1.03
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1.03
10237	Tetrachloroethene	127-18-4	N.D.	1	1.03
10237	Toluene	108-88-3	N.D.	1	1.03
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1.03
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1.03

Sample Description: PLA-S-GP-SB01-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938133
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1415 SDG#: NWP14-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1.03
10237	Trichloroethene	79-01-6	N.D.	1	1.03
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1.03
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1.03
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1.03
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1.03
10237	Vinyl Chloride	75-01-4	N.D.	1	1.03
10237	m+p-Xylene	179601-23-1	N.D.	1	1.03
10237	o-Xylene	95-47-6	N.D.	1	1.03
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	6 J	4	1
10726	Benzo(a)pyrene	50-32-8	9 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	10 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	11 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	4 J	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	76	1
10726	Di-n-butylphthalate	84-74-2	N.D.	76	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	8 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	7 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	76	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	76	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-GP-SB01-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938133
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:35

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1415 SDG#: NWP14-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
10726	Fluoranthene	206-44-0	6 J	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	9 J	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	76	1
10726	4-Nitroaniline	100-01-6	N.D.	76	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	76	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	7 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,970	4.96	1
06944	Antimony	7440-36-0	2.55	0.360	1
06935	Arsenic	7440-38-2	5.49	0.699	1
06946	Barium	7440-39-3	32.5	0.0360	1
06947	Beryllium	7440-41-7	0.373 J	0.0731	1

Sample Description: PLA-S-GP-SB01-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938133
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 11:35

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Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1415 SDG#: NWP14-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06949	Cadmium	7440-43-9	N.D.	0.0360	1
01650	Calcium	7440-70-2	738	4.14	1
06951	Chromium	7440-47-3	9.09	0.120	1
06952	Cobalt	7440-48-4	5.47	0.105	1
06953	Copper	7440-50-8	12.2	0.360	1
01654	Iron	7439-89-6	10,800	3.65	1
06955	Lead	7439-92-1	9.91	0.546	1
01657	Magnesium	7439-95-4	1,350	1.82	1
06958	Manganese	7439-96-5	200	0.0906	1
06961	Nickel	7440-02-0	11.7	0.164	1
01662	Potassium	7440-09-7	807	14.2	1
06936	Selenium	7782-49-2	1.81 J	0.480	1
06966	Silver	7440-22-4	N.D.	0.207	1
01667	Sodium	7440-23-5	N.D.	18.2	1
06925	Thallium	7440-28-0	N.D.	0.873	1
06971	Vanadium	7440-62-2	17.7	0.0993	1
06972	Zinc	7440-66-6	53.4	0.284	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0164 J	0.0113	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	11.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151771AA	06/26/2015 13:16	Angela D Sneeringer	1.03
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:09	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 11:35	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 18:24	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 12:14	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 12:14	Joanne M Gates	1

Sample Description: PLA-S-GP-SB01-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938133
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Suite 103

Oakbrook IL 60523

N1415 SDG#: NWP14-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015	12:14	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015	07:58	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015	21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015	16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015	10:28	William C Schwebel	1

Sample Description: DUP-061915-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938134
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1416 SDG#: NWP14-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	7 J	6	0.75
10237	Benzene	71-43-2	N.D.	0.4	0.75
10237	Bromobenzene	108-86-1	N.D.	0.9	0.75
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.75
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.75
10237	Bromoform	75-25-2	N.D.	0.9	0.75
10237	Bromomethane	74-83-9	N.D.	2	0.75
10237	2-Butanone	78-93-3	N.D.	4	0.75
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.75
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.75
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.75
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.75
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.75
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.75
10237	Chloroethane	75-00-3	N.D.	2	0.75
10237	Chloroform	67-66-3	N.D.	0.9	0.75
10237	Chloromethane	74-87-3	N.D.	2	0.75
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.75
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.75
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.75
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.75
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.75
10237	Dibromomethane	74-95-3	N.D.	0.9	0.75
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.75
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.75
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.75
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.75
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.75
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.75
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.75
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.75
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.75
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.75
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.75
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.75
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.75
10237	2-Hexanone	591-78-6	N.D.	3	0.75
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.75
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.75
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.75
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.75
10237	Methylene Chloride	75-09-2	N.D.	2	0.75
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.75
10237	Styrene	100-42-5	N.D.	0.9	0.75
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.75
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.75
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.75
10237	Toluene	108-88-3	N.D.	0.9	0.75
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.75
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.75

Sample Description: DUP-061915-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938134
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1416 SDG#: NWP14-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.75
10237	Trichloroethene	79-01-6	2 J	0.9	0.75
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.75
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.75
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.75
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.75
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.75
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.75
10237	o-Xylene	95-47-6	N.D.	0.9	0.75
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	420	4	1
10726	Acenaphthylene	208-96-8	46	4	1
10726	Anthracene	120-12-7	660	4	1
10726	Benzidine	92-87-5	N.D.	820	1
10726	Benzo(a)anthracene	56-55-3	860	4	1
10726	Benzo(a)pyrene	50-32-8	850	4	1
10726	Benzo(b)fluoranthene	205-99-2	990	4	1
10726	Benzo(g,h,i)perylene	191-24-2	550	4	1
10726	Benzo(k)fluoranthene	207-08-9	360	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	78	1
10726	Di-n-butylphthalate	84-74-2	N.D.	78	1
10726	Carbazole	86-74-8	330	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	39	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	880	4	1
10726	Dibenz(a,h)anthracene	53-70-3	140	4	1
10726	Dibenzofuran	132-64-9	290	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	78	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	78	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: DUP-061915-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938134
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015

Geosyntec

1420 Kensington Road

Submitted: 06/20/2015 09:35

Suite 103

Reported: 06/30/2015 14:58

Oakbrook IL 60523

N1416 SDG#: NWP14-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	350	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	78	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	78	1
10726	Fluoranthene	206-44-0	2,000	4	1
10726	Fluorene	86-73-7	390	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	39	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	480	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	240	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	25 J	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	760	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	78	1
10726	4-Nitroaniline	100-01-6	N.D.	78	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	78	1
10726	Pentachlorophenol	87-86-5	N.D.	39	1
10726	Phenanthrene	85-01-8	2,600	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	1,700	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,310	5.15	1
06944	Antimony	7440-36-0	2.54	0.374	1
06935	Arsenic	7440-38-2	8.98	0.726	1
06946	Barium	7440-39-3	48.7	0.0374	1
06947	Beryllium	7440-41-7	0.567	0.0760	1

Sample Description: DUP-061915-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938134
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1416 SDG#: NWP14-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.343 J	0.0374	1
01650	Calcium	7440-70-2	2,110	4.30	1
06951	Chromium	7440-47-3	12.9	0.125	1
06952	Cobalt	7440-48-4	11.0	0.109	1
06953	Copper	7440-50-8	33.9	0.374	1
01654	Iron	7439-89-6	19,400	3.79	1
06955	Lead	7439-92-1	284	0.567	1
01657	Magnesium	7439-95-4	2,010	1.89	1
06958	Manganese	7439-96-5	439	0.0941	1
06961	Nickel	7440-02-0	25.0	0.170	1
01662	Potassium	7440-09-7	1,370	14.7	1
06936	Selenium	7782-49-2	2.90	0.499	1
06966	Silver	7440-22-4	0.251 J	0.215	1
01667	Sodium	7440-23-5	55.0 J	18.9	1
06925	Thallium	7440-28-0	0.994 J	0.907	1
06971	Vanadium	7440-62-2	20.5	0.103	1
06972	Zinc	7440-66-6	346	0.295	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.111 J	0.0115	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	14.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151771AA	06/26/2015 13:39	Angela D Sneeringer	0.75
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:09	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 00:00	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLC026	06/26/2015 18:48	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15176SLC026	06/25/2015 16:45	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708002	06/26/2015 12:17	Joanne M Gates	1
06944	Antimony	SW-846 6010B	1	151765708002	06/26/2015 12:17	Joanne M Gates	1

Sample Description: DUP-061915-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7938134
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1416 SDG#: NWP14-16FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06946	Barium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06947	Beryllium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06949	Cadmium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
01650	Calcium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06951	Chromium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06952	Cobalt	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06953	Copper	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06961	Nickel	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06936	Selenium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06966	Silver	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06925	Thallium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06971	Vanadium	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
06972	Zinc	SW-846 6010B	1	151765708002	06/26/2015	12:17	Joanne M Gates	1
00159	Mercury	SW-846 7471A	1	151745711005	06/26/2015	08:00	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708002	06/25/2015	21:59	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151745711005	06/23/2015	16:41	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15177820001B	06/26/2015	10:28	William C Schwebel	1

Sample Description: TB-061915-S1 Methanol
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7938135
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 16:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1417 SDG#: NWP14-17TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	1
10237	Benzene	71-43-2	N.D.	0.5	1
10237	Bromobenzene	108-86-1	N.D.	1	1
10237	Bromochloromethane	74-97-5	N.D.	1	1
10237	Bromodichloromethane	75-27-4	N.D.	1	1
10237	Bromoform	75-25-2	N.D.	1	1
10237	Bromomethane	74-83-9	N.D.	2	1
10237	2-Butanone	78-93-3	N.D.	4	1
10237	n-Butylbenzene	104-51-8	N.D.	1	1
10237	sec-Butylbenzene	135-98-8	N.D.	1	1
10237	tert-Butylbenzene	98-06-6	N.D.	1	1
10237	Carbon Disulfide	75-15-0	N.D.	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1
10237	Chlorobenzene	108-90-7	N.D.	1	1
10237	Chloroethane	75-00-3	N.D.	2	1
10237	Chloroform	67-66-3	N.D.	1	1
10237	Chloromethane	74-87-3	N.D.	2	1
10237	2-Chlorotoluene	95-49-8	N.D.	1	1
10237	4-Chlorotoluene	106-43-4	N.D.	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10237	Dibromochloromethane	124-48-1	N.D.	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1
10237	Dibromomethane	74-95-3	N.D.	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10237	Ethylbenzene	100-41-4	N.D.	1	1
10237	2-Hexanone	591-78-6	N.D.	3	1
10237	Isopropylbenzene	98-82-8	N.D.	1	1
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10237	Methylene Chloride	75-09-2	N.D.	2	1
10237	n-Propylbenzene	103-65-1	N.D.	1	1
10237	Styrene	100-42-5	N.D.	1	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10237	Tetrachloroethene	127-18-4	N.D.	1	1
10237	Toluene	108-88-3	N.D.	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1

Sample Description: TB-061915-S1 Methanol
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7938135
LL Group # 1570838
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/19/2015 16:15

Geosyntec

Submitted: 06/20/2015 09:35

1420 Kensington Road

Reported: 06/30/2015 14:58

Suite 103

Oakbrook IL 60523

N1417 SDG#: NWP14-17TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1
10237	Trichloroethene	79-01-6	N.D.	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10237	Vinyl Chloride	75-01-4	N.D.	1	1
10237	m+p-Xylene	179601-23-1	N.D.	1	1
10237	o-Xylene	95-47-6	N.D.	1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151771AA	06/26/2015 12:09	Angela D Sneeringer	1
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517138046	06/20/2015 17:09	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517138046	06/20/2015 17:09	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517138046	06/19/2015 16:15	Client Supplied	1

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A151764AA	Sample number(s): 7938117-7938119, 7938122, 7938126, 7938128-7938129							
Acetone	N.D.	7.	ug/kg	90		57-127		
Benzene	N.D.	0.5	ug/kg	93		80-120		
Bromobenzene	N.D.	1.	ug/kg	98		78-120		
Bromochloromethane	N.D.	1.	ug/kg	112		80-120		
Bromodichloromethane	N.D.	1.	ug/kg	97		75-120		
Bromoform	N.D.	1.	ug/kg	95		64-120		
Bromomethane	N.D.	2.	ug/kg	91		41-144		
2-Butanone	N.D.	4.	ug/kg	97		62-123		
n-Butylbenzene	N.D.	1.	ug/kg	89		72-120		
sec-Butylbenzene	N.D.	1.	ug/kg	92		69-120		
tert-Butylbenzene	N.D.	1.	ug/kg	90		75-120		
Carbon Disulfide	N.D.	1.	ug/kg	72		52-126		
Carbon Tetrachloride	N.D.	1.	ug/kg	90		69-130		
Chlorobenzene	N.D.	1.	ug/kg	99		80-120		
Chloroethane	N.D.	2.	ug/kg	83		38-142		
Chloroform	N.D.	1.	ug/kg	98		80-120		
Chloromethane	N.D.	2.	ug/kg	89		56-120		
2-Chlorotoluene	N.D.	1.	ug/kg	94		78-120		
4-Chlorotoluene	N.D.	1.	ug/kg	95		79-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	99		59-122		
Dibromochloromethane	N.D.	1.	ug/kg	97		77-120		
1,2-Dibromoethane	N.D.	1.	ug/kg	104		80-120		
Dibromomethane	N.D.	1.	ug/kg	103		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/kg	95		26-137		
1,1-Dichloroethane	N.D.	1.	ug/kg	90		77-120		
1,2-Dichloroethane	N.D.	1.	ug/kg	102		77-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	82		73-129		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	95		80-120		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	92		79-122		
1,2-Dichloropropane	N.D.	1.	ug/kg	99		76-120		
1,3-Dichloropropane	N.D.	1.	ug/kg	100		80-120		
2,2-Dichloropropane	N.D.	1.	ug/kg	90		72-123		
1,1-Dichloropropene	N.D.	1.	ug/kg	83		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	93		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	99		76-120		
Ethylbenzene	N.D.	1.	ug/kg	95		80-120		
2-Hexanone	N.D.	3.	ug/kg	100		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	94		76-120		
p-Isopropyltoluene	N.D.	1.	ug/kg	90		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	100		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	102		57-123		
Methylene Chloride	N.D.	2.	ug/kg	97		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	92		77-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/kg	100		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	98		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	102		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	93		78-120		
Toluene	N.D.	1.	ug/kg	95		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	94		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	88		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104		80-120		
Trichloroethene	N.D.	1.	ug/kg	94		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	92		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	108		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	95		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	94		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	89		59-120		
m+p-Xylene	N.D.	1.	ug/kg	96		80-120		
o-Xylene	N.D.	1.	ug/kg	94		80-120		

Batch number: A151771AA

Sample number(s): 7938131-7938135

Acetone	N.D.	7.	ug/kg	127	124	57-127	3	30
Benzene	N.D.	0.5	ug/kg	100	99	80-120	1	30
Bromobenzene	N.D.	1.	ug/kg	103	99	78-120	3	30
Bromochloromethane	N.D.	1.	ug/kg	113	111	80-120	2	30
Bromodichloromethane	N.D.	1.	ug/kg	101	98	75-120	3	30
Bromoform	N.D.	1.	ug/kg	101	96	64-120	5	30
Bromomethane	N.D.	2.	ug/kg	95	93	41-144	3	30
2-Butanone	N.D.	4.	ug/kg	111	106	62-123	4	30
n-Butylbenzene	N.D.	1.	ug/kg	100	101	72-120	1	30
sec-Butylbenzene	N.D.	1.	ug/kg	101	100	69-120	1	30
tert-Butylbenzene	N.D.	1.	ug/kg	99	98	75-120	0	30
Carbon Disulfide	N.D.	1.	ug/kg	89	86	52-126	3	30
Carbon Tetrachloride	N.D.	1.	ug/kg	101	99	69-130	2	30
Chlorobenzene	N.D.	1.	ug/kg	104	102	80-120	2	30
Chloroethane	N.D.	2.	ug/kg	88	86	38-142	2	30
Chloroform	N.D.	1.	ug/kg	104	102	80-120	1	30
Chloromethane	N.D.	2.	ug/kg	96	95	56-120	1	30
2-Chlorotoluene	N.D.	1.	ug/kg	102	100	78-120	2	30
4-Chlorotoluene	N.D.	1.	ug/kg	102	101	79-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	108	99	59-122	9	30
Dibromochloromethane	N.D.	1.	ug/kg	102	97	77-120	5	30
1,2-Dibromoethane	N.D.	1.	ug/kg	110	105	80-120	4	30
Dibromomethane	N.D.	1.	ug/kg	107	103	80-120	4	30
Dichlorodifluoromethane	N.D.	2.	ug/kg	105	99	26-137	6	30
1,1-Dichloroethane	N.D.	1.	ug/kg	98	96	77-120	2	30
1,2-Dichloroethane	N.D.	1.	ug/kg	106	104	77-130	2	30
1,1-Dichloroethene	N.D.	1.	ug/kg	98	94	73-129	4	30
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	102	100	80-120	2	30
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	102	100	79-122	2	30
1,2-Dichloropropane	N.D.	1.	ug/kg	105	101	76-120	3	30
1,3-Dichloropropane	N.D.	1.	ug/kg	106	103	80-120	3	30
2,2-Dichloropropane	N.D.	1.	ug/kg	101	101	72-123	1	30
1,1-Dichloropropene	N.D.	1.	ug/kg	95	93	80-120	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	97	95	74-120	2	30
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	103	102	76-120	1	30
Ethylbenzene	N.D.	1.	ug/kg	102	100	80-120	1	30
2-Hexanone	N.D.	3.	ug/kg	113	107	47-133	6	30
Isopropylbenzene	N.D.	1.	ug/kg	101	100	76-120	1	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
p-Isopropyltoluene	N.D.	1.	ug/kg	99	98	69-120	1	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	103	101	72-120	2	30
4-Methyl-2-pentanone	N.D.	3.	ug/kg	112	106	57-123	6	30
Methylene Chloride	N.D.	2.	ug/kg	105	101	80-124	4	30
n-Propylbenzene	N.D.	1.	ug/kg	103	100	77-120	3	30
Styrene	N.D.	1.	ug/kg	105	103	76-120	2	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	104	100	80-120	4	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	111	107	72-120	4	30
Tetrachloroethene	N.D.	1.	ug/kg	105	102	78-120	3	30
Toluene	N.D.	1.	ug/kg	102	101	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	97	96	52-120	2	30
1,1,1-Trichloroethane	N.D.	1.	ug/kg	94	92	66-126	3	30
1,1,2-Trichloroethane	N.D.	1.	ug/kg	108	107	80-120	1	30
Trichloroethene	N.D.	1.	ug/kg	102	99	80-120	2	30
Trichlorofluoromethane	N.D.	2.	ug/kg	99	96	58-133	3	30
1,2,3-Trichloropropane	N.D.	1.	ug/kg	117	111	77-120	5	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	102	100	79-120	1	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	102	100	78-120	2	30
Vinyl Chloride	N.D.	1.	ug/kg	98	95	59-120	3	30
m+p-Xylene	N.D.	1.	ug/kg	104	103	80-120	1	30
o-Xylene	N.D.	1.	ug/kg	99	99	80-120	0	30

Batch number: B151772AA	Sample number(s): 7938121,7938123-7938125,7938127,7938130
Acetone	N.D. 7. ug/kg 98 57-127
Benzene	N.D. 0.5 ug/kg 104 80-120
Bromobenzene	N.D. 1. ug/kg 100 78-120
Bromochloromethane	N.D. 1. ug/kg 120 80-120
Bromodichloromethane	N.D. 1. ug/kg 94 75-120
Bromoform	N.D. 1. ug/kg 84 64-120
Bromomethane	N.D. 2. ug/kg 107 41-144
2-Butanone	N.D. 4. ug/kg 94 62-123
n-Butylbenzene	N.D. 1. ug/kg 94 72-120
sec-Butylbenzene	N.D. 1. ug/kg 98 69-120
tert-Butylbenzene	N.D. 1. ug/kg 102 75-120
Carbon Disulfide	N.D. 1. ug/kg 93 52-126
Carbon Tetrachloride	N.D. 1. ug/kg 97 69-130
Chlorobenzene	N.D. 1. ug/kg 102 80-120
Chloroethane	N.D. 2. ug/kg 102 38-142
Chloroform	N.D. 1. ug/kg 109 80-120
Chloromethane	N.D. 2. ug/kg 99 56-120
2-Chlorotoluene	N.D. 1. ug/kg 97 78-120
4-Chlorotoluene	N.D. 1. ug/kg 100 79-120
1,2-Dibromo-3-chloropropane	N.D. 2. ug/kg 90 59-122
Dibromochloromethane	N.D. 1. ug/kg 86 77-120
1,2-Dibromoethane	N.D. 1. ug/kg 99 80-120
Dibromomethane	N.D. 1. ug/kg 105 80-120
Dichlorodifluoromethane	N.D. 2. ug/kg 94 26-137
1,1-Dichloroethane	N.D. 1. ug/kg 100 77-120
1,2-Dichloroethane	N.D. 1. ug/kg 112 77-130
1,1-Dichloroethene	N.D. 1. ug/kg 112 73-129
cis-1,2-Dichloroethene	N.D. 1. ug/kg 109 80-120
trans-1,2-Dichloroethene	N.D. 1. ug/kg 112 79-122
1,2-Dichloropropane	N.D. 1. ug/kg 99 76-120
1,3-Dichloropropane	N.D. 1. ug/kg 97 80-120
2,2-Dichloropropane	N.D. 1. ug/kg 90 72-123
1,1-Dichloropropene	N.D. 1. ug/kg 98 80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	90		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	84		76-120		
Ethylbenzene	N.D.	1.	ug/kg	100		80-120		
2-Hexanone	N.D.	3.	ug/kg	82		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	103		76-120		
p-Isopropyltoluene	N.D.	1.	ug/kg	98		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	104		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	87		57-123		
Methylene Chloride	N.D.	2.	ug/kg	112		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	97		77-120		
Styrene	N.D.	1.	ug/kg	100		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	98		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	92		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	111		78-120		
Toluene	N.D.	1.	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	102		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	93		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	99		80-120		
Trichloroethene	N.D.	1.	ug/kg	108		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	109		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	102		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	95		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	98		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	104		59-120		
m+p-Xylene	N.D.	1.	ug/kg	102		80-120		
o-Xylene	N.D.	1.	ug/kg	99		80-120		

Batch number: Q151771AA

Sample number(s): 7938116

Acetone	N.D.	350.	ug/kg	90	87	57-127	4	30
Benzene	N.D.	25.	ug/kg	97	96	80-120	1	30
Bromobenzene	N.D.	50.	ug/kg	95	93	78-120	2	30
Bromochloromethane	N.D.	50.	ug/kg	94	98	80-120	4	30
Bromodichloromethane	N.D.	50.	ug/kg	89	87	75-120	2	30
Bromoform	N.D.	50.	ug/kg	84	85	64-120	1	30
Bromomethane	N.D.	100.	ug/kg	168*	173*	41-144	3	30
2-Butanone	N.D.	200.	ug/kg	95	94	62-123	1	30
n-Butylbenzene	N.D.	50.	ug/kg	86	88	72-120	2	30
sec-Butylbenzene	N.D.	50.	ug/kg	89	89	69-120	1	30
tert-Butylbenzene	N.D.	50.	ug/kg	87	88	75-120	1	30
Carbon Disulfide	N.D.	50.	ug/kg	87	88	52-126	1	30
Carbon Tetrachloride	N.D.	50.	ug/kg	88	91	69-130	3	30
Chlorobenzene	N.D.	50.	ug/kg	94	92	80-120	2	30
Chloroethane	N.D.	100.	ug/kg	187*	196*	38-142	5	30
Chloroform	N.D.	50.	ug/kg	96	96	80-120	0	30
Chloromethane	N.D.	100.	ug/kg	93	94	56-120	2	30
2-Chlorotoluene	N.D.	50.	ug/kg	93	91	78-120	2	30
4-Chlorotoluene	N.D.	50.	ug/kg	94	94	79-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	100.	ug/kg	80	84	59-122	6	30
Dibromochloromethane	N.D.	50.	ug/kg	93	91	77-120	2	30
1,2-Dibromoethane	N.D.	50.	ug/kg	99	96	80-120	2	30
Dibromomethane	N.D.	50.	ug/kg	91	91	80-120	1	30
Dichlorodifluoromethane	N.D.	100.	ug/kg	65	77	26-137	18	30
1,1-Dichloroethane	N.D.	50.	ug/kg	96	96	77-120	0	30
1,2-Dichloroethane	N.D.	50.	ug/kg	101	100	77-130	1	30
1,1-Dichloroethene	N.D.	50.	ug/kg	92	92	73-129	0	30
cis-1,2-Dichloroethene	N.D.	50.	ug/kg	95	95	80-120	0	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,2-Dichloroethene	N.D.	50.	ug/kg	98	99	79-122	1	30
1,2-Dichloropropane	N.D.	50.	ug/kg	98	97	76-120	1	30
1,3-Dichloropropane	N.D.	50.	ug/kg	98	98	80-120	1	30
2,2-Dichloropropane	N.D.	50.	ug/kg	97	96	72-123	1	30
1,1-Dichloropropene	N.D.	50.	ug/kg	93	92	80-120	2	30
cis-1,3-Dichloropropene	N.D.	50.	ug/kg	97	94	74-120	3	30
trans-1,3-Dichloropropene	N.D.	50.	ug/kg	102	100	76-120	2	30
Ethylbenzene	N.D.	50.	ug/kg	95	92	80-120	3	30
2-Hexanone	N.D.	150.	ug/kg	67	67	47-133	0	30
Isopropylbenzene	N.D.	50.	ug/kg	91	89	76-120	1	30
p-Isopropyltoluene	N.D.	50.	ug/kg	86	87	69-120	1	30
Methyl Tertiary Butyl Ether	N.D.	25.	ug/kg	96	98	72-120	3	30
4-Methyl-2-pentanone	N.D.	150.	ug/kg	75	74	57-123	1	30
Methylene Chloride	N.D.	100.	ug/kg	95	96	80-124	1	30
n-Propylbenzene	N.D.	50.	ug/kg	94	92	77-120	2	30
Styrene	N.D.	50.	ug/kg	91	90	76-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	50.	ug/kg	95	92	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	50.	ug/kg	95	93	72-120	1	30
Tetrachloroethene	N.D.	50.	ug/kg	93	91	78-120	3	30
Toluene	N.D.	50.	ug/kg	100	96	80-120	4	30
1,2,3-Trichlorobenzene	N.D.	50.	ug/kg	72	75	52-120	4	30
1,1,1-Trichloroethane	N.D.	50.	ug/kg	93	95	66-126	2	30
1,1,2-Trichloroethane	N.D.	50.	ug/kg	99	96	80-120	3	30
Trichloroethene	N.D.	50.	ug/kg	93	94	80-120	1	30
Trichlorofluoromethane	N.D.	100.	ug/kg	85	88	58-133	4	30
1,2,3-Trichloropropane	N.D.	50.	ug/kg	97	99	77-120	3	30
1,2,4-Trimethylbenzene	N.D.	50.	ug/kg	93	93	79-120	0	30
1,3,5-Trimethylbenzene	N.D.	50.	ug/kg	93	91	78-120	2	30
Vinyl Chloride	N.D.	50.	ug/kg	94	91	59-120	3	30
m+p-Xylene	N.D.	50.	ug/kg	94	92	80-120	3	30
o-Xylene	N.D.	50.	ug/kg	93	91	80-120	3	30

Batch number: 15174SLC026

Sample number(s): 7938124

Acenaphthene	N.D.	3.	ug/kg	128*		83-116		
Acenaphthylene	N.D.	3.	ug/kg	149*		83-127		
Anthracene	N.D.	3.	ug/kg	139*		82-118		
Benzidine	N.D.	700.	ug/kg	101*		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	126*		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	135*		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	133*		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	146*		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	121*		79-120		
Benzoic acid	N.D.	170.	ug/kg	108		41-122		
Benzyl alcohol	N.D.	170.	ug/kg	117		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	133*		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	134*		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	131*		84-120		
Carbazole	N.D.	17.	ug/kg	132*		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	115		79-127		
4-Chloroaniline	N.D.	33.	ug/kg	92		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	112		77-116		
bis(2-Chloroethyl)ether	N.D.	17.	ug/kg	111		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	149*		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	135*		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	123*		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	115		70-119		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chrysene	N.D.	3.	ug/kg	124*		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	141*		81-123		
Dibenzofuran	N.D.	17.	ug/kg	129*		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	127*		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	118*		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	121*		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	65		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	130*		81-123		
Diethylphthalate	N.D.	67.	ug/kg	118		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	119		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	122*		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	88		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	66		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	125*		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	129*		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	130*		81-121		
Fluoranthene	N.D.	3.	ug/kg	120*		81-117		
Fluorene	N.D.	3.	ug/kg	131*		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	133*		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	109		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	89		75-176		
Hexachloroethane	N.D.	33.	ug/kg	113		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	140*		81-118		
Isophorone	N.D.	17.	ug/kg	109		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	121*		83-109		
2-Methylphenol	N.D.	17.	ug/kg	124		82-125		
4-Methylphenol	N.D.	17.	ug/kg	116		75-119		
Naphthalene	N.D.	3.	ug/kg	125*		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	149*		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	141*		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	104		48-112		
Nitrobenzene	N.D.	17.	ug/kg	98		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	138*		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	88		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	96		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	139*		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	135*		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	116		57-126		
Phenanthrene	N.D.	3.	ug/kg	134*		80-114		
Phenol	N.D.	17.	ug/kg	111		75-117		
Pyrene	N.D.	3.	ug/kg	126*		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	122*		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	133*		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	136*		81-123		

Batch number: 15176SLC026

Sample number(s): 7938116-7938119, 7938121-7938123, 7938125-7938134

Acenaphthene	N.D.	3.	ug/kg	101		83-116		
Acenaphthylene	N.D.	3.	ug/kg	114		83-127		
Anthracene	N.D.	3.	ug/kg	106		82-118		
Benzidine	N.D.	700.	ug/kg	74*		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	91		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	100		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	94		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	110		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	100		79-120		
Benzoic acid	N.D.	170.	ug/kg	91		41-122		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzyl alcohol	N.D.	170.	ug/kg	99		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	102		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	95		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	97		84-120		
Carbazole	N.D.	17.	ug/kg	98		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	93		79-127		
4-Chloroaniline	N.D.	33.	ug/kg	66		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	90		77-116		
bis(2-Chloroethyl) ether	N.D.	17.	ug/kg	93		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	80		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	114		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	93		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	99		70-119		
Chrysene	N.D.	3.	ug/kg	93		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	106		81-123		
Dibenzofuran	N.D.	17.	ug/kg	99		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	104		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	97		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	99		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	43		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	105		81-123		
Diethylphthalate	N.D.	67.	ug/kg	93		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	94		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	96		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	109		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	107		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	99		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	100		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	95		81-121		
Fluoranthene	N.D.	3.	ug/kg	90		81-117		
Fluorene	N.D.	3.	ug/kg	100		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	102		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	88		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	101		75-176		
Hexachloroethane	N.D.	33.	ug/kg	97		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	105		81-118		
Isophorone	N.D.	17.	ug/kg	90		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	98		83-109		
2-Methylphenol	N.D.	17.	ug/kg	109		82-125		
4-Methylphenol	N.D.	17.	ug/kg	99		75-119		
Naphthalene	N.D.	3.	ug/kg	98		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	111		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	107		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	85		48-112		
Nitrobenzene	N.D.	17.	ug/kg	77*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	105		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	77		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	83		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	107		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	103		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	103		57-126		
Phenanthrene	N.D.	3.	ug/kg	104		80-114		
Phenol	N.D.	17.	ug/kg	93		75-117		
Pyrene	N.D.	3.	ug/kg	97		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	95		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	100		86-123		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1570838

Reported: 06/30/2015 14:58

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	104		81-123		
Batch number: 151740025A	Sample number(s): 7938116-7938119,7938121-7938123,7938125							
PCB-1016	N.D.	3.6	ug/kg	98		76-121		
PCB-1221	N.D.	4.6	ug/kg					
PCB-1232	N.D.	8.0	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	4.9	ug/kg	106		80-140		
Total PCBs	N.D.	3.3	ug/kg					
Batch number: 151800012A	Sample number(s): 7938124							
PCB-1016	N.D.	3.6	ug/kg	99		76-121		
PCB-1221	N.D.	4.6	ug/kg					
PCB-1232	N.D.	8.0	ug/kg					
PCB-1242	4.4 J	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	4.9	ug/kg	88		80-140		
Total PCBs	4.4 J	3.3	ug/kg					
Batch number: 151745711005	Sample number(s): 7938116-7938134							
Mercury	N.D.	0.0100	mg/kg	106		80-120		
Batch number: 151765708002	Sample number(s): 7938116-7938134							
Aluminum	N.D.	4.54	mg/kg	102		80-120		
Antimony	N.D.	0.330	mg/kg	106		80-120		
Arsenic	N.D.	0.640	mg/kg	107		80-120		
Barium	N.D.	0.0330	mg/kg	101		80-120		
Beryllium	N.D.	0.0670	mg/kg	105		80-120		
Cadmium	N.D.	0.0330	mg/kg	102		80-120		
Calcium	N.D.	3.79	mg/kg	101		80-120		
Chromium	N.D.	0.110	mg/kg	99		80-120		
Cobalt	N.D.	0.0960	mg/kg	103		80-120		
Copper	N.D.	0.330	mg/kg	103		80-120		
Iron	N.D.	3.34	mg/kg	101		80-120		
Lead	N.D.	0.500	mg/kg	106		80-120		
Magnesium	N.D.	1.67	mg/kg	102		80-120		
Manganese	N.D.	0.0830	mg/kg	100		80-120		
Nickel	N.D.	0.150	mg/kg	104		80-120		
Potassium	N.D.	13.0	mg/kg	99		80-120		
Selenium	N.D.	0.440	mg/kg	104		80-120		
Silver	N.D.	0.190	mg/kg	95		80-120		
Sodium	N.D.	16.7	mg/kg	99		80-120		
Thallium	N.D.	0.800	mg/kg	105		80-120		
Vanadium	N.D.	0.0910	mg/kg	100		80-120		
Zinc	N.D.	0.260	mg/kg	103		80-120		
Batch number: 15177820001B	Sample number(s): 7938116-7938134							
Moisture				100		99-101		
Moisture				100		99-101		
Moisture Duplicate				100		99-101		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: A151764AA	Sample number(s): 7938117-7938119,7938122,7938126,7938128-7938129 UNSPK: 7938117								
Acetone	85	113	31-195	26	30				
Benzene	90	91	55-143	0	30				
Bromobenzene	89	92	43-139	1	30				
Bromochloromethane	104	105	60-137	0	30				
Bromodichloromethane	86	90	53-136	3	30				
Bromoform	70	77	50-144	8	30				
Bromomethane	99	89	42-168	12	30				
2-Butanone	67	81	37-163	18	30				
n-Butylbenzene	75	67	30-146	12	30				
sec-Butylbenzene	86	79	33-157	9	30				
tert-Butylbenzene	88	83	41-152	7	30				
Carbon Disulfide	77	74	48-146	5	30				
Carbon Tetrachloride	93	94	51-165	1	30				
Chlorobenzene	89	89	49-135	2	30				
Chloroethane	94	87	39-152	10	30				
Chloroform	95	96	61-142	1	30				
Chloromethane	100	97	36-143	4	30				
2-Chlorotoluene	89	88	42-146	2	30				
4-Chlorotoluene	87	85	39-145	3	30				
1,2-Dibromo-3-chloropropane	65	77	34-165	16	30				
Dibromochloromethane	82	86	51-128	3	30				
1,2-Dibromoethane	84	92	54-129	8	30				
Dibromomethane	85	91	57-130	5	30				
Dichlorodifluoromethane	114	106	26-151	9	30				
1,1-Dichloroethane	90	92	63-142	1	30				
1,2-Dichloroethane	89	95	54-143	5	30				
1,1-Dichloroethene	88	89	61-149	0	30				
cis-1,2-Dichloroethene	92	95	67-135	2	30				
trans-1,2-Dichloroethene	94	94	64-144	1	30				
1,2-Dichloropropane	91	95	54-144	2	30				
1,3-Dichloropropane	85	92	51-140	7	30				
2,2-Dichloropropane	93	96	53-147	1	30				
1,1-Dichloropropene	87	86	54-145	2	30				
cis-1,3-Dichloropropene	78	80	45-137	2	30				
trans-1,3-Dichloropropene	83	87	51-134	4	30				
Ethylbenzene	89	85	44-141	6	30				
2-Hexanone	66	81	32-160	19	30				
Isopropylbenzene	85	80	38-144	7	30				
p-Isopropyltoluene	80	75	29-152	9	30				
Methyl Tertiary Butyl Ether	79	91	55-129	13	30				
4-Methyl-2-pentanone	69	84	46-139	18	30				
Methylene Chloride	92	95	60-149	2	30				
n-Propylbenzene	90	86	39-157	5	30				
Styrene	84	82	35-134	4	30				
1,1,1,2-Tetrachloroethane	88	91	55-139	2	30				
1,1,2,2-Tetrachloroethane	85	98	29-182	13	30				
Tetrachloroethene	95	94	42-149	3	30				
Toluene	93	93	50-146	2	30				
1,2,3-Trichlorobenzene	42	44	10-140	3	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,1,1-Trichloroethane	90	91	52-146	0	30			
1,1,2-Trichloroethane	87	94	58-152	6	30			
Trichloroethene	91	90	53-144	2	30			
Trichlorofluoromethane	106	99	47-163	9	30			
1,2,3-Trichloropropane	91	104	36-180	11	30			
1,2,4-Trimethylbenzene	86	86	37-149	2	30			
1,3,5-Trimethylbenzene	88	87	38-150	3	30			
Vinyl Chloride	105	99	50-154	8	30			
m+p-Xylene	89	85	44-137	6	30			
o-Xylene	84	83	42-137	2	30			

Batch number: B151772AA	Sample number(s): 7938121,7938123-7938125,7938127,7938130 UNSPK: P940240							
Acetone	96	87	31-195	7	30			
Benzene	101	97	55-143	2	30			
Bromobenzene	92	87	43-139	5	30			
Bromochloromethane	113	107	60-137	4	30			
Bromodichloromethane	88	85	53-136	2	30			
Bromoform	69	67	50-144	2	30			
Bromomethane	106	108	42-168	3	30			
2-Butanone	92	84	37-163	8	30			
n-Butylbenzene	61	58	30-146	4	30			
sec-Butylbenzene	72	69	33-157	3	30			
tert-Butylbenzene	73	69	41-152	5	30			
Carbon Disulfide	85	84	48-146	0	30			
Carbon Tetrachloride	88	88	51-165	1	30			
Chlorobenzene	92	88	49-135	3	30			
Chloroethane	102	105	39-152	4	30			
Chloroform	108	104	61-142	2	30			
Chloromethane	101	105	36-143	5	30			
2-Chlorotoluene	84	81	42-146	2	30			
4-Chlorotoluene	83	78	39-145	5	30			
1,2-Dibromo-3-chloropropane	62	62	34-165	0	30			
Dibromochloromethane	82	77	51-128	5	30			
1,2-Dibromoethane	97	90	54-129	6	30			
Dibromomethane	99	94	57-130	4	30			
Dichlorodifluoromethane	110	112	26-151	3	30			
1,1-Dichloroethane	99	96	63-142	2	30			
1,2-Dichloroethane	109	106	54-143	2	30			
1,1-Dichloroethene	122	119	61-149	1	30			
cis-1,2-Dichloroethene	106	103	67-135	2	30			
trans-1,2-Dichloroethene	108	106	64-144	1	30			
1,2-Dichloropropane	96	95	54-144	0	30			
1,3-Dichloropropane	94	89	51-140	4	30			
2,2-Dichloropropane	87	86	53-147	0	30			
1,1-Dichloropropene	93	90	54-145	2	30			
cis-1,3-Dichloropropene	83	82	45-137	0	30			
trans-1,3-Dichloropropene	82	78	51-134	4	30			
Ethylbenzene	86	81	44-141	5	30			
2-Hexanone	81	73	32-160	10	30			
Isopropylbenzene	81	77	38-144	3	30			
p-Isopropyltoluene	69	66	29-152	4	30			
Methyl Tertiary Butyl Ether	102	99	55-129	1	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
4-Methyl-2-pentanone	81	78	46-139	2	30			
Methylene Chloride	110	106	60-149	3	30			
n-Propylbenzene	79	75	39-157	4	30			
Styrene	85	81	35-134	3	30			
1,1,1,2-Tetrachloroethane	88	85	55-139	2	30			
1,1,2,2-Tetrachloroethane	0*	0*	29-182	0	30			
Tetrachloroethene	172*	163*	42-149	4	30			
Toluene	97	92	50-146	4	30			
1,2,3-Trichlorobenzene	47	45	10-140	3	30			
1,1,1-Trichloroethane	87	86	52-146	0	30			
1,1,2-Trichloroethane	84	78	58-152	6	30			
Trichloroethene	181*	175*	53-144	2	30			
Trichlorofluoromethane	114	115	47-163	2	30			
1,2,3-Trichloropropane	100	92	36-180	6	30			
1,2,4-Trimethylbenzene	76	72	37-149	3	30			
1,3,5-Trimethylbenzene	78	74	38-150	4	30			
Vinyl Chloride	105	107	50-154	3	30			
m+p-Xylene	87	82	44-137	4	30			
o-Xylene	85	81	42-137	4	30			

Batch number: 15174SLC026	Sample number(s): 7938124	UNSPK: P938117			
Acenaphthene	127	125	45-141	1	30
Acenaphthylene	143	140	53-143	2	30
Anthracene	139	136	42-147	3	30
Benizidine	21*	0*	35-141	200*	30
Benzo(a)anthracene	121	122	32-150	1	30
Benzo(a)pyrene	127	128	36-151	1	30
Benzo(b)fluoranthene	122	121	29-150	0	30
Benzo(g,h,i)perylene	137	139	41-147	2	30
Benzo(k)fluoranthene	119	126	35-146	6	30
Benzoic acid	105	106	23-170	1	30
Benzyl alcohol	118	114	74-123	3	30
4-Bromophenyl-phenylether	138	136	48-146	1	30
Butylbenzylphthalate	125	129	50-137	3	30
Di-n-butylphthalate	123	124	65-126	1	30
Carbazole	128	127	36-143	1	30
4-Chloro-3-methylphenol	107	111	48-141	4	30
4-Chloroaniline	56	61	10-100	9	30
bis(2-Chloroethoxy)methane	106	112	64-119	5	30
bis(2-Chloroethyl)ether	106	106	63-122	0	30
2-Chloronaphthalene	112	107	40-156	5	30
2-Chlorophenol	134	133	50-142	1	30
4-Chlorophenyl-phenylether	119	120	49-135	1	30
2,2'-oxybis(1-Chloropropane)	114	112	60-120	2	30
Chrysene	118	124	28-146	5	30
Dibenz(a,h)anthracene	134	134	38-156	0	30
Dibenzofuran	126	121	34-146	4	30
1,2-Dichlorobenzene	121	123	51-130	2	30
1,3-Dichlorobenzene	117	112	51-125	4	30
1,4-Dichlorobenzene	116	114	50-127	2	30
3,3'-Dichlorobenzidine	84	82	10-143	2	30
2,4-Dichlorophenol	124	130	46-145	5	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Diethylphthalate	116	116	61-124	0	30			
2,4-Dimethylphenol	111	115	38-140	3	30			
Dimethylphthalate	118	116	59-124	2	30			
4,6-Dinitro-2-methylphenol	142	136	10-148	4	30			
2,4-Dinitrophenol	129	124	20-143	4	30			
2,4-Dinitrotoluene	122	119	37-149	3	30			
2,6-Dinitrotoluene	128	126	54-134	1	30			
bis(2-Ethylhexyl)phthalate	122	126	60-133	3	30			
Fluoranthene	116	119	41-135	2	30			
Fluorene	126	122	43-146	3	30			
Hexachlorobenzene	135	133	36-150	2	30			
Hexachlorobutadiene	103	108	65-125	5	30			
Hexachlorocyclopentadiene	60	47	10-153	24	30			
Hexachloroethane	106	104	37-143	2	30			
Indeno(1,2,3-cd)pyrene	131	134	35-151	2	30			
Isophorone	102	109	68-119	7	30			
2-Methylnaphthalene	113	119	39-140	5	30			
2-Methylphenol	122	122	36-149	0	30			
4-Methylphenol	114	112	46-135	1	30			
Naphthalene	119	121	39-147	2	30			
2-Nitroaniline	138	136	46-152	2	30			
3-Nitroaniline	135	119	31-145	12	30			
4-Nitroaniline	109	108	30-131	1	30			
Nitrobenzene	93	97	54-131	3	30			
2-Nitrophenol	128	137	38-150	6	30			
4-Nitrophenol	87	86	25-142	2	30			
N-Nitroso-di-n-propylamine	96	96	58-126	0	30			
N-Nitrosodiphenylamine	139	138	41-147	1	30			
Di-n-octylphthalate	124	129	53-156	4	30			
Pentachlorophenol	128	136	23-145	5	30			
Phenanthrene	133	133	42-141	0	30			
Phenol	114	112	53-129	2	30			
Pyrene	123	128	37-140	5	30			
1,2,4-Trichlorobenzene	116	122	45-139	5	30			
2,4,5-Trichlorophenol	128	127	42-144	1	30			
2,4,6-Trichlorophenol	135	134	43-145	1	30			

Batch number: 15176SLC026	Sample number(s): 7938116-7938119,7938121-7938123,7938125-7938134	UNSPK: 7938117			
Acenaphthene	95	79	45-141	19	30
Acenaphthylene	108	87	53-143	21	30
Anthracene	99	88	42-147	12	30
Benidine	0*	0*	35-141	0	30
Benzo(a)anthracene	93	82	32-150	12	30
Benzo(a)pyrene	95	80	36-151	16	30
Benzo(b)fluoranthene	87	75	29-150	14	30
Benzo(g,h,i)perylene	103	86	41-147	17	30
Benzo(k)fluoranthene	91	75	35-146	18	30
Benzoic acid	71	66	23-170	7	30
Benzyl alcohol	89	75	74-123	17	30
4-Bromophenyl-phenylether	106	92	48-146	13	30
Butylbenzylphthalate	96	81	50-137	17	30
Di-n-butylphthalate	93	77	65-126	18	30

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Carbazole	93	78	36-143	16	30			
4-Chloro-3-methylphenol	79	68	48-141	15	30			
4-Chloroaniline	37	8*	10-100	126*	30			
bis(2-Chloroethoxy)methane	84	74	64-119	12	30			
bis(2-Chloroethyl) ether	86	72	63-122	18	30			
2-Chloronaphthalene	91	82	40-156	10	30			
2-Chlorophenol	103	90	50-142	13	30			
4-Chlorophenyl-phenylether	88	71	49-135	21	30			
2,2'-oxybis(1-Chloropropane)	87	78	60-120	11	30			
Chrysene	95	81	28-146	15	30			
Dibenz(a,h)anthracene	100	85	38-156	15	30			
Dibenzofuran	95	74	34-146	25	30			
1,2-Dichlorobenzene	97	80	51-130	19	30			
1,3-Dichlorobenzene	94	76	51-125	20	30			
1,4-Dichlorobenzene	90	75	50-127	17	30			
3,3'-Dichlorobenzidine	25	0*	10-143	200*	30			
2,4-Dichlorophenol	95	81	46-145	15	30			
Diethylphthalate	86	67	61-124	23	30			
2,4-Dimethylphenol	82	75	38-140	9	30			
Dimethylphthalate	90	72	59-124	22	30			
4,6-Dinitro-2-methylphenol	56	37	10-148	39*	30			
2,4-Dinitrophenol	41	27	20-143	42*	30			
2,4-Dinitrotoluene	87	66	37-149	27	30			
2,6-Dinitrotoluene	95	75	54-134	23	30			
bis(2-Ethylhexyl)phthalate	99	83	60-133	17	30			
Fluoranthene	81	68	41-135	16	30			
Fluorene	92	74	43-146	21	30			
Hexachlorobenzene	101	89	36-150	12	30			
Hexachlorobutadiene	84	71	65-125	17	30			
Hexachlorocyclopentadiene	21	10	10-153	71*	30			
Hexachloroethane	81	66	37-143	20	30			
Indeno(1,2,3-cd)pyrene	100	82	35-151	18	30			
Isophorone	81	70	68-119	14	30			
2-Methylnaphthalene	88	75	39-140	15	30			
2-Methylphenol	92	78	36-149	16	30			
4-Methylphenol	86	70	46-135	19	30			
Naphthalene	93	81	39-147	13	30			
2-Nitroaniline	103	85	46-152	19	30			
3-Nitroaniline	81	379*	31-145	130*	30			
4-Nitroaniline	69	7*	30-131	162*	30			
Nitrobenzene	72	64	54-131	12	30			
2-Nitrophenol	98	86	38-150	13	30			
4-Nitrophenol	64	53	25-142	19	30			
N-Nitroso-di-n-propylamine	75	62	58-126	19	30			
N-Nitrosodiphenylamine	110	94	41-147	15	30			
Di-n-octylphthalate	94	77	53-156	20	30			
Pentachlorophenol	93	84	23-145	10	30			
Phenanthrene	98	85	42-141	13	30			
Phenol	82	71	53-129	14	30			
Pyrene	89	79	37-140	11	30			
1,2,4-Trichlorobenzene	91	79	45-139	14	30			
2,4,5-Trichlorophenol	99	77	42-144	24	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2,4,6-Trichlorophenol	101	83	43-145	19	30				
Batch number: 151740025A	Sample number(s): 7938116-7938119,7938121-7938123,7938125 UNSPK: 7938117								
PCB-1016	86	91	41-135	7	50				
PCB-1260	90	99	38-148	10	50				
Batch number: 151800012A	Sample number(s): 7938124 UNSPK: P947152								
PCB-1016	81	80	41-135	2	50				
PCB-1260	95	91	38-148	4	50				
Batch number: 151745711005	Sample number(s): 7938116-7938134 UNSPK: 7938117 BKG: 7938117								
Mercury	128*	103	80-120	17	20	0.0189 J	0.0227 J	18 (1)	20
Batch number: 151765708002	Sample number(s): 7938116-7938134 UNSPK: 7938117 BKG: 7938117								
Aluminum	807 (2)	517 (2)	75-125	6	20	7,650	7,890	3	20
Antimony	92	96	75-125	4	20	1.87 J	2.17	15 (1)	20
Arsenic	140*	175*	75-125	11	20	22.3	27.5	21*	20
Barium	101	104	75-125	3	20	31.3	32.4	4	20
Beryllium	104	106	75-125	2	20	0.453 J	0.438 J	4 (1)	20
Cadmium	97	96	75-125	0	20	N.D.	N.D.	0 (1)	20
Calcium	-1341 (2)	-971 (2)	75-125	65*	20	6,840	1,210	140*	20
Chromium	108	117	75-125	5	20	12.2	18.3	40*	20
Cobalt	98	98	75-125	0	20	5.19	5.87	12	20
Copper	88	89	75-125	1	20	15.5	15.6	1	20
Iron	-957 (2)	5600 (2)	75-125	39*	20	14,100	14,600	3	20
Lead	103	106	75-125	2	20	15.0	16.5	10	20
Magnesium	-1528 (2)	-1280 (2)	75-125	20	20	5,290	2,370	76*	20
Manganese	216 (2)	179 (2)	75-125	5	20	268	322	18	20
Nickel	97	96	75-125	1	20	11.5	13.1	12	20
Potassium	122	126*	75-125	2	20	1,040	893	15	20
Selenium	97	108	75-125	10	20	2.29	2.33	1 (1)	20
Silver	92	100	75-125	9	20	N.D.	N.D.	0 (1)	20
Sodium	98	100	75-125	2	20	30.7 J	23.6 J	26* (1)	20
Thallium	101	104	75-125	3	20	N.D.	N.D.	0 (1)	20
Vanadium	105	105	75-125	0	20	19.5	21.0	7	20
Zinc	85	91	75-125	3	20	59.8	68.0	13	20
Batch number: 15177820001B	Sample number(s): 7938116-7938134 BKG: 7938117								
Moisture						12.2	10.2	18*	5
Moisture						12.2	10.2	18*	5
Moisture Duplicate						12.2	10.2	18*	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Surrogate Quality Control

Analysis Name: VOCs- Solid by 8260B
Batch number: A151764AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7938117	109	107	98	89
7938118	104	102	105	96
7938119	103	105	105	96
7938122	108	104	98	92
7938126	109	105	103	84
7938128	126	120	135	53
7938129	107	104	99	87
Blank	106	106	97	91
LCS	103	104	101	100
MS	104	102	105	96
MSD	103	105	105	96
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: A151771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7938131	107	102	103	86
7938132	112	106	112	76
7938133	108	105	100	87
7938134	110	111	102	83
7938135	104	100	100	91
Blank	106	107	99	90
LCS	104	110	101	100
LCSD	104	105	102	101
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: B151772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7938121	106	106	100	92
7938123	108	106	109	82
7938124	108	106	106	85
7938125	105	103	102	91
7938127	103	99	102	91
7938130	106	102	98	96
Blank	106	107	97	97
LCS	107	106	98	97
MS	39*	107	102	95
MSD	43*	107	101	97
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: Q151771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7938116	75	77	70	68
Blank	93	96	93	98
LCS	84	88	88	100
LCSD	86	84	88	100
Limits:	50-141	54-135	52-141	50-131

Analysis Name: SVOA 8270D (microwave)

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Surrogate Quality Control

Batch number: 15174SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7938124	77	83	76	66	87	90
Blank	87	99	102	73	97	107
LCS	91	101	100	78	101	108
MS	89	96	97	74	97	102
MSD	87	96	96	76	97	103
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

Analysis Name: SVOA 8270D (microwave)
Batch number: 15176SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7938116	52*	59	50	85	62*	51*
7938117	83	91	82	71	96	74
7938118	83	92	83	71	96	76
7938119	79	88	73	70	88	71
7938121	74	81	72	67	86	67
7938122	74	84	71	68	83	65
7938123	73	86	71	73	95	68
7938125	81	89	81	67	99	73
7938126	81	90	75	70	91	74
7938127	85	93	79	73	97	75
7938128	66	65	52	65	83	65
7938129	80	91	81	72	93	75
7938130	83	94	75	73	97	77
7938131	76	81	59	59	88	64
7938132	68	68	49	72	95	68
7938133	80	89	83	74	92	75
7938134	78	84	75	69	94	74
Blank	87	97	100	78	95	79
LCS	93	103	99	76	96	80
MS	83	92	83	71	96	76
MSD	79	88	73	70	88	71
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

Analysis Name: PCBs in Soil (microwave)
Batch number: 151740025A

	Tetrachloro-m-xylene	Decachlorobiphenyl
7938116	32*	60
7938117	100	67
7938118	91	69
7938119	94	82
7938121	88	78
7938122	102	90
7938123	62	64
7938125	96	84
Blank	110	107
LCS	106	105
MS	91	69
MSD	94	82
Limits:	50-148	43-155

Analysis Name: PCBs in Soil (microwave)
Batch number: 151800012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
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*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:58

Group Number: 1570838

Surrogate Quality Control

7938124	67	68
Blank	103	95
LCS	100	93
MS	86	93
MSD	86	89
Limits:	50-148	43-155

*- Outside of specification

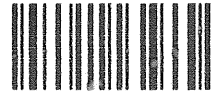
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

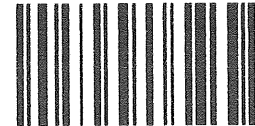
Acct. # 1570838 Group # 1570838 Sample # 7938116-35
 Instructions on reverse side correspond with circled numbers.



380271

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only			
Client: <u>Geo Syntec Consultants</u>		Acct. #:		Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Other:		Preservation Codes				FSC: _____					
Project Name/ID: <u>CHR 8417</u>		PWSID #:				Total # of Containers <u>VOCs 8260B</u> <u>SVOCs 8270.0</u> <u>TAL-Methy + Hg</u> <u>PCBs</u>				SCR#: _____					
Project Manager: <u>Dave Kulczycki</u>		P.O. #:								Preservation Codes					
Sampler: <u>Various</u>		Quote #:								H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other					
Name of state where samples were collected: <u>IN</u>		3		6		Remarks				Remarks					
2 Sample Identification		Collected		Grab	Composite	Soil <input checked="" type="checkbox"/>	Water	Other:	Total # of Containers	Analysis Requested				6	
		Date	Time												
<u>VP-S-AOC13-SB12-0-1</u>		<u>18 Jun 15</u>	<u>1630</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB12-0-1 MS</u>			<u>1630</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB12-0-1 MSD</u>			<u>1630</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB12-8-10</u>			<u>1635</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB11-0-1</u>			<u>1650</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB11-0-1 MS</u>			<u>1650</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB11-0-1 MSD</u>			<u>1650</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB11-3-4</u>		<u>↓</u>	<u>1655</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>↓</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-AOC13-SB12-16-18</u>		<u>↓</u>	<u>1720</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>↓</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>VP-S-SWAV4-SB31-0-1</u>		<u>19 Jun 15</u>	<u>0850</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time	9			
Standard				<u>[Signature]</u>		<u>19 Jun 15</u>	<u>1630</u>	<u>[Signature]</u>		<u>16 Jun 15</u>	<u>17:15</u>				
Rush <u>5-day TAT</u>				<u>[Signature]</u>		<u>16 Jun 15</u>	<u>17:20</u>	<u>[Signature]</u>							
(Rush TAT is subject to laboratory approval and surcharge.)				<u>[Signature]</u>				<u>[Signature]</u>							
Date results are needed: _____				<u>[Signature]</u>				<u>[Signature]</u>							
E-mail address: <u>dkulczycki@geosyntec.com</u>				<u>[Signature]</u>				<u>[Signature]</u>							
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by		Date	Time				
Type I (EPA Level 3)				<u>[Signature]</u>				<u>[Signature]</u>		<u>16 Jun 15</u>	<u>9:35</u>				
Type II (CLP SW)				<u>[Signature]</u>				<u>[Signature]</u>							
Equivalent/non-CLP				<u>[Signature]</u>				<u>[Signature]</u>							
Type III (Reduced non-CLP)				<u>[Signature]</u>				<u>[Signature]</u>							
TX TRRP-13				<u>[Signature]</u>				<u>[Signature]</u>							
NYSDEC Category A or B				<u>[Signature]</u>				<u>[Signature]</u>							
MA MCP				<u>[Signature]</u>				<u>[Signature]</u>							
CT RCP				<u>[Signature]</u>				<u>[Signature]</u>							
				EDD Required? <u>Yes</u> No				Relinquished by Commercial Carrier:							
				If yes, format: _____				<u>UPS</u> FedEx _____ Other _____							
				Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No				Temperature upon receipt <u>0.6 28C</u>							
				(If yes, indicate QC sample and submit triplicate sample volume.)											

Environmental Analysis Request/Chain of Custody



364938



Lancaster Laboratories
Environmental

Acct. # 1570858 Group # 1570836 Sample # 7938116-35
 Instructions on reverse side correspond with circled numbers.

20448

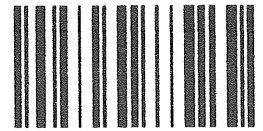
1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only							
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> Surface <input type="checkbox"/> NPDES Other:	Total # of Containers	Preservation Codes				FSC: _____									
Project Name/ #: <u>chr 8417</u>		PWSID #:				VOCs 8260B SVOCs 8270D TAL Metals + Hg PCBs				SCR#: _____									
Project Manager: <u>Dane Kulczykcki</u>		P.O. #:								Preservation Codes									
Sampler: <u>Various</u>		Quote #:								H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other									
Name of state where samples were collected: <u>PA</u>				3		6 Remarks													
2 Sample Identification		Collected		Grab	Composite							Soil	Water	Other:	Total # of Containers	VOCs	SVOCs	TAL Metals + Hg	PCBs
Date	Time	Grab	Composite																
<u>VP-S-SWMU4-SB31-3-4</u>	<u>19 Jun 15</u>	<u>0855</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>			<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>VP-S-SWMU4-SB31-9-10</u>		<u>0900</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>PLA-S-GP-SB03-0-1</u>		<u>1310</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-GP-SB03-3-4</u>		<u>1315</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-GP-SB02-0-1</u>		<u>1120</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-GP-SB02-4.5-5.5</u>		<u>1125</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-ROAD-SB10-0-1</u>		<u>1230</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-ROAD-SB10-4-5</u>		<u>1235</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<u>PLA-S-GP-SB01-0-1</u>		<u>1130</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
<u>PLA-S-GP-SB01-4-5</u>		<u>1135</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by	Date	Time									
Standard				<u>Rush 5day TAT</u>		<u>19 Jun 15</u>	<u>1630</u>	<u>[Signature]</u>	<u>6/19/15</u>	<u>17:15</u>									
(Rush TAT is subject to laboratory approval and surcharge.)				<u>[Signature]</u>		<u>6/19/15</u>	<u>17:20</u>												
Date results are needed: _____				Relinquished by		Date	Time	Received by	Date	Time									
E-mail address: <u>d.kulczykcki@geosyntec.com</u>				Relinquished by		Date	Time	Received by	Date	Time									
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by	Date	Time									
Type I (Validation/non-CLP)		Type VI (Raw Data Only)		Relinquished by		Date	Time	Received by	Date	Time									
Type III (Reduced non-CLP)		TX TRRP-13		Relinquished by		Date	Time	Received by	Date	Time									
<u>Type IV (CLP SOW)</u>		MA MCP CT RCP		Relinquished by		Date	Time	Received by	Date	Time									
EDD Required? <u>Yes</u> No				Relinquished by Commercial Carrier:				Date		Time									
If yes, format: _____				<u>UPS</u> FedEx Other				<u>6/20/15</u>		<u>935</u>									
Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No				Temperature upon receipt <u>0.6-0.8</u> °C															
(If yes, indicate QC sample and submit triplicate sample volume.)																			

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 1570838 Eurofins Lancaster Laboratories Environmental use only
 Group # 1570838 Sample # 7938116-35
 Instructions on reverse side correspond with circled numbers.
 20448



364939

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only			
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>trip blank water</u>	Total # of Containers	Preservation Codes				FSC: _____					
Project Name/ #: <u>CHR 8417</u>		PWSID #:				VOCs <u>8200B</u> SVOCs <u>8270D</u> TAL Metals & Hg PCBs					SCR#: _____				
Project Manager: <u>Dave Kulczyk</u>		P.O. #:									Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other				
Sampler: <u>Various</u>		Quote #:									6 Remarks				
Name of state where samples were collected: <u>IN</u>				3											
2 Sample Identification		Collected		Grab	Composite	Soil <input checked="" type="checkbox"/>	Water	Other	Total # of Containers	VOCs	SVOCs	TAL Metals & Hg	PCBs		
		Date	Time												
<u>DUP-061915-001</u>		<u>19 Jun 15</u>	<u>—</u>	<u>X</u>		<u>X</u>			<u>4</u>	<u>X</u>	<u>X</u>	<u>X</u>			
<u>TB-061915-S1</u>		<u>19 Jun 15</u>	<u>1615</u>	<u>X</u>				<u>X</u>	<u>2</u>	<u>X</u>					
 35 19 Jun 2015 															
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time	9			
Standard <u>Rush</u> <u>5 Day TAT</u>						<u>19 Jun 15</u>	<u>1630</u>			<u>6/19/15</u>	<u>17:15</u>				
(Rush TAT is subject to laboratory approval and surcharge.)						<u>6/19/15</u>	<u>17:20</u>								
Date results are needed: _____															
E-mail address: <u>dkulczyk@geosyntec.com</u>															
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by		Date	Time				
Type I (Validation/non-CLP)		Type VI (Raw Data Only)								<u>6/20/15</u>	<u>935</u>				
Type III (Reduced non-CLP)		TX TRRP-13													
<u>Type IV (CLP SOW)</u>		MA MCP CT RCP													
				EDD Required? <u>Yes</u> No				Relinquished by Commercial Carrier:							
				If yes, format: _____				UPS _____ FedEx _____ Other _____							
				Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No				Temperature upon receipt <u>06-0.8</u> °C							
				(If yes, indicate QC sample and submit triplicate sample volume.)											

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 01, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/23/2015

Group Number: 1571296

SDG: NWP16

PO Number: 201506111740

State of Sample Origin: IN

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
RB-012 Grab Water	7939891
RB-013 Grab Water	7939892
TB-062215-RB Water	7939893

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Geosyntec

COPY TO

ELECTRONIC Geosyntec

COPY TO

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: **RB-012 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7939891**
 LL Group # **1571296**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/22/2015 16:10 by JS

Geosyntec
 1420 Kensington Road
 Suite 103
 Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 07/01/2015 10:26

RB012 SDG#: NWP16-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: **RB-012 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7939891**
 LL Group # **1571296**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/22/2015 16:10 by JS

Geosyntec
 1420 Kensington Road
 Suite 103
 Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 07/01/2015 10:26

RB012 SDG#: NWP16-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benizidine	92-87-5	N.D.	20	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: **RB-012 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7939891**
 LL Group # **1571296**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/22/2015 16:10 by JS

Geosyntec
 1420 Kensington Road
 Suite 103
 Oakbrook IL 60523

Submitted: 06/23/2015 09:20
 Reported: 07/01/2015 10:26

RB012 SDG#: NWP16-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
 The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.

Metals	SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674
07044	Antimony	7440-36-0	N.D.	0.0051
07035	Arsenic	7440-38-2	N.D.	0.0072
07046	Barium	7440-39-3	0.00058 J	0.00033

Sample Description: RB-012 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7939891
LL Group # 1571296
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 16:10 by JS

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20
Reported: 07/01/2015 10:26

RB012 SDG#: NWP16-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	
07047	Beryllium	7440-41-7	N.D.	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	0.333	0.0334	1
07051	Chromium	7440-47-3	N.D.	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	0.118 J	0.0334	1
01757	Magnesium	7439-95-4	0.0258 J	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	N.D.	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0119 J	0.0020	1
		SW-846 6020	mg/l	mg/l	
06033	Copper	7440-50-8	N.D.	0.00050	1
06035	Lead	7439-92-1	0.000083 J	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	E151781AA	06/27/2015 08:59	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151781AA	06/27/2015 08:59	Sara E Johnson	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15176WAD026	06/26/2015 15:56	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafran	1
01743	Aluminum	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07044	Antimony	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07035	Arsenic	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07046	Barium	SW-846 6010B	1	151751848002	06/28/2015 13:25	Suzanne M Will	1
07047	Beryllium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07052	Cobalt	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
01754	Iron	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1

Sample Description: RB-012 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7939891
LL Group # 1571296
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 16:10 by JS

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 07/01/2015 10:26

RB012 SDG#: NWP16-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01757	Magnesium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
07072	Zinc	SW-846 6010B	1	151751848002	06/27/2015 10:06	Eric L Eby	1
06033	Copper	SW-846 6020	1	151756050001A	06/29/2015 11:45	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151756050001A	06/29/2015 11:45	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151756050001B	06/29/2015 11:45	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151756050001A	06/29/2015 11:45	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151756050001A	06/29/2015 11:45	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151755713004	06/25/2015 16:42	Parker D Lindstrom	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848002	06/25/2015 11:17	Christopher M Klumpp	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151756050001	06/25/2015 09:57	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151755713004	06/25/2015 12:38	Christopher M Klumpp	1

Sample Description: **RB-013 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7939892**
 LL Group # **1571296**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/22/2015 16:15 by JS

Geosyntec
 1420 Kensington Road
 Suite 103
 Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 07/01/2015 10:26

RB013 SDG#: NWP16-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-013 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7939892
LL Group # 1571296
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 16:15 by JS

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 07/01/2015 10:26

RB013 SDG#: NWP16-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzydine	92-87-5	N.D.	21	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: **RB-013 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7939892**
 LL Group # **1571296**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/22/2015 16:15 by JS

Geosyntec
 1420 Kensington Road
 Suite 103
 Oakbrook IL 60523

Submitted: 06/23/2015 09:20
 Reported: 07/01/2015 10:26

RB013 SDG#: NWP16-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
 The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.

Metals	SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0729	J 0.0674
07044	Antimony	7440-36-0	N.D.	0.0051
07035	Arsenic	7440-38-2	N.D.	0.0072
07046	Barium	7440-39-3	0.00053	J 0.00033

Sample Description: RB-013 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7939892
LL Group # 1571296
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 16:15 by JS

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20
Reported: 07/01/2015 10:26

RB013 SDG#: NWP16-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/l	
07047	Beryllium	7440-41-7	N.D.	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	1.16	0.0334	1
07051	Chromium	7440-47-3	N.D.	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	N.D.	0.0334	1
01757	Magnesium	7439-95-4	0.0178 J	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	N.D.	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0020	1
			SW-846 6020	mg/l	
06033	Copper	7440-50-8	N.D.	0.00050	1
06035	Lead	7439-92-1	N.D.	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
			SW-846 7470A	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	E151781AA	06/27/2015 09:18	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151781AA	06/27/2015 09:18	Sara E Johnson	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15176WAD026	06/26/2015 16:25	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafran	1
01743	Aluminum	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
07044	Antimony	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
07035	Arsenic	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
07046	Barium	SW-846 6010B	1	151751848002	06/28/2015 13:28	Suzanne M Will	1
07047	Beryllium	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
07052	Cobalt	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1
01754	Iron	SW-846 6010B	1	151751848002	06/27/2015 10:09	Eric L Eby	1

Sample Description: RB-013 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7939892
LL Group # 1571296
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 16:15 by JS

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 07/01/2015 10:26

RB013 SDG#: NWP16-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01757	Magnesium	SW-846 6010B	1	151751848002	06/27/2015	10:09	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	151751848002	06/27/2015	10:09	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	151751848002	06/27/2015	10:09	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	151751848002	06/27/2015	10:09	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	151751848002	06/27/2015	10:09	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	151751848002	06/27/2015	10:09	Eric L Eby	1
07072	Zinc	SW-846 6010B	1	151751848002	06/27/2015	10:09	Eric L Eby	1
06033	Copper	SW-846 6020	1	151756050001A	06/29/2015	11:48	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151756050001A	06/29/2015	11:48	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151756050001B	06/29/2015	11:48	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151756050001A	06/29/2015	11:48	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151756050001A	06/29/2015	11:48	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151755713004	06/25/2015	16:44	Parker D Lindstrom	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848002	06/25/2015	11:17	Christopher M Klumpp	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151756050001	06/25/2015	09:57	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151755713004	06/25/2015	12:38	Christopher M Klumpp	1

Sample Description: TB-062215-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7939893
LL Group # 1571296
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 16:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:26

Suite 103

Oakbrook IL 60523

TB221 SDG#: NWP16-03TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-062215-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7939893
LL Group # 1571296
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 16:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:26

Suite 103

Oakbrook IL 60523

TB221 SDG#: NWP16-03TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	E151781AA	06/27/2015 09:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E151781AA	06/27/2015 09:39	Sara E Johnson	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:26

Group Number: 1571296

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: E151781AA	Sample number(s): 7939891-7939893							
Acetone	N.D.	6.	ug/l	88	87	55-129	1	30
Benzene	N.D.	0.5	ug/l	91	95	78-120	4	30
Bromobenzene	N.D.	1.	ug/l	110	117	80-120	6	30
Bromochloromethane	N.D.	1.	ug/l	103	110	80-120	6	30
Bromodichloromethane	N.D.	0.5	ug/l	104	109	73-120	4	30
Bromoform	N.D.	0.5	ug/l	113	117	52-123	4	30
Bromomethane	N.D.	0.5	ug/l	99	105	53-130	5	30
2-Butanone	N.D.	3.	ug/l	79	83	54-133	6	30
n-Butylbenzene	N.D.	1.	ug/l	79	79	68-120	1	30
sec-Butylbenzene	N.D.	1.	ug/l	83	86	75-120	4	30
tert-Butylbenzene	N.D.	1.	ug/l	94	95	80-120	1	30
Carbon Disulfide	N.D.	1.	ug/l	68	67	58-126	2	30
Carbon Tetrachloride	N.D.	0.5	ug/l	105	101	74-130	4	30
Chlorobenzene	N.D.	0.5	ug/l	98	102	80-120	4	30
Chloroethane	N.D.	0.5	ug/l	88	89	56-120	1	30
Chloroform	N.D.	0.5	ug/l	103	107	80-120	4	30
Chloromethane	N.D.	0.5	ug/l	78	78	63-120	0	30
2-Chlorotoluene	N.D.	1.	ug/l	97	99	80-120	1	30
4-Chlorotoluene	N.D.	1.	ug/l	101	101	80-120	0	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	90	92	56-120	2	30
Dibromochloromethane	N.D.	0.5	ug/l	110	115	72-120	4	30
1,2-Dibromoethane	N.D.	0.5	ug/l	106	109	80-120	3	30
Dibromomethane	N.D.	0.5	ug/l	106	109	80-120	3	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	108	104	55-127	4	30
1,1-Dichloroethane	N.D.	0.5	ug/l	83	86	80-120	3	30
1,2-Dichloroethane	N.D.	0.5	ug/l	106	113	72-127	7	30
1,1-Dichloroethene	N.D.	0.5	ug/l	88	86	76-124	2	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	96	101	80-120	6	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	95	98	80-120	3	30
1,2-Dichloropropane	N.D.	0.5	ug/l	89	94	80-120	5	30
1,3-Dichloropropane	N.D.	0.5	ug/l	92	96	80-120	3	30
2,2-Dichloropropane	N.D.	0.5	ug/l	98	100	63-131	2	30
1,1-Dichloropropene	N.D.	1.	ug/l	91	90	80-126	1	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	95	98	80-120	3	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	94	98	76-120	3	30
Ethylbenzene	N.D.	0.5	ug/l	93	93	80-120	0	30
2-Hexanone	N.D.	3.	ug/l	75	78	50-131	5	30
Isopropylbenzene	N.D.	1.	ug/l	96	96	80-120	0	30
p-Isopropyltoluene	N.D.	1.	ug/l	86	88	76-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	102	106	75-120	4	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	79	83	51-124	6	30
Methylene Chloride	N.D.	2.	ug/l	94	96	80-120	3	30
n-Propylbenzene	N.D.	1.	ug/l	86	89	80-120	3	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571296

Reported: 07/01/2015 10:26

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	101	104	80-120	3	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	108	111	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	86	93	70-120	7	30
Tetrachloroethene	N.D.	0.5	ug/l	113	108	80-120	4	30
Toluene	N.D.	0.5	ug/l	93	94	80-120	2	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	110	111	69-120	2	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	98	97	66-126	0	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	98	104	80-120	6	30
Trichloroethene	N.D.	0.5	ug/l	102	102	80-120	0	30
Trichlorofluoromethane	N.D.	0.5	ug/l	111	106	58-135	5	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	109	114	76-120	4	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	92	96	80-120	4	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	90	94	80-120	4	30
Vinyl Chloride	N.D.	0.5	ug/l	90	90	69-120	1	30
m+p-Xylene	N.D.	0.5	ug/l	96	98	80-120	2	30
o-Xylene	N.D.	0.5	ug/l	98	101	80-120	3	30
Batch number: 15176WAD026 Sample number(s): 7939891-7939892								
Acenaphthene	N.D.	0.1	ug/l	81	76*	80-112	7	30
Acenaphthylene	N.D.	0.1	ug/l	89	84	78-125	6	30
Anthracene	N.D.	0.1	ug/l	85	76*	82-116	10	30
Benzidine	N.D.	20.	ug/l	75	85	21-88	12	30
Benzo(a)anthracene	N.D.	0.1	ug/l	88	85	76-122	4	30
Benzo(a)pyrene	N.D.	0.1	ug/l	84	78	73-120	7	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	86	79	75-123	9	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	87	78	70-126	12	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	87	80	74-119	9	30
Benzoic acid	N.D.	6.	ug/l	29	20	10-97	36*	30
Benzyl alcohol	N.D.	10.	ug/l	87	86	54-115	1	30
4-Bromophenyl-phenylether	N.D.	0.5	ug/l	83	76	76-116	9	30
Butylbenzylphthalate	N.D.	2.	ug/l	70	61*	68-119	14	30
Di-n-butylphthalate	N.D.	2.	ug/l	79	68*	74-114	14	30
Carbazole	N.D.	0.5	ug/l	83	76*	79-115	9	30
4-Chloro-3-methylphenol	N.D.	0.5	ug/l	80	77	73-115	4	30
4-Chloroaniline	N.D.	2.	ug/l	76	74	44-114	3	30
bis(2-Chloroethoxy)methane	N.D.	0.5	ug/l	78	73*	77-115	6	30
bis(2-Chloroethyl) ether	N.D.	0.5	ug/l	76*	72*	78-112	5	30
2-Chloronaphthalene	N.D.	0.4	ug/l	79	76	69-112	4	30
2-Chlorophenol	N.D.	0.5	ug/l	77	72	70-111	7	30
4-Chlorophenyl-phenylether	N.D.	0.5	ug/l	83	78	76-113	6	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	ug/l	80	76	56-128	5	30
Chrysene	N.D.	0.1	ug/l	89	87	81-120	3	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	89	82	72-127	9	30
Dibenzofuran	N.D.	0.5	ug/l	83	77*	81-110	7	30
1,2-Dichlorobenzene	N.D.	0.5	ug/l	76	72	65-107	6	30
1,3-Dichlorobenzene	N.D.	0.5	ug/l	74	71	58-103	4	30
1,4-Dichlorobenzene	N.D.	0.5	ug/l	75	71	56-106	5	30
3,3'-Dichlorobenzidine	N.D.	2.	ug/l	74	92	39-111	23	30
2,4-Dichlorophenol	N.D.	0.5	ug/l	83	78	74-114	7	30
Diethylphthalate	N.D.	2.	ug/l	72	56*	70-118	24	30
2,4-Dimethylphenol	N.D.	0.5	ug/l	79	75	75-110	6	30
Dimethylphthalate	N.D.	2.	ug/l	54	40*	43-128	31*	30
4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l	78	69	53-134	13	30
2,4-Dinitrophenol	N.D.	10.	ug/l	50	57	31-129	13	30
2,4-Dinitrotoluene	N.D.	1.	ug/l	81	70*	77-124	14	30
2,6-Dinitrotoluene	N.D.	0.5	ug/l	84	80	80-119	5	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:26

Group Number: 1571296

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
bis(2-Ethylhexyl) phthalate	N.D.	2.	ug/l	90	88	72-122	2	30
Fluoranthene	N.D.	0.1	ug/l	85	79	76-117	7	30
Fluorene	N.D.	0.1	ug/l	84	78*	80-117	7	30
Hexachlorobenzene	N.D.	0.1	ug/l	82	75	73-118	9	30
Hexachlorobutadiene	N.D.	0.5	ug/l	73	70	42-110	4	30
Hexachlorocyclopentadiene	N.D.	5.	ug/l	68	62	10-119	10	30
Hexachloroethane	N.D.	1.	ug/l	71	68	43-108	4	30
Indeno(1,2,3-cd) pyrene	N.D.	0.1	ug/l	86	78	70-121	10	30
Isophorone	N.D.	0.5	ug/l	87	83	81-124	5	30
2-Methylnaphthalene	N.D.	0.1	ug/l	78	75	69-103	3	30
2-Methylphenol	N.D.	0.5	ug/l	75	69	66-112	8	30
4-Methylphenol	N.D.	0.5	ug/l	74	69	56-109	7	30
Naphthalene	N.D.	0.1	ug/l	79	75	75-108	5	30
2-Nitroaniline	N.D.	0.5	ug/l	79	74	71-121	6	30
3-Nitroaniline	N.D.	0.5	ug/l	73	71	58-111	3	30
4-Nitroaniline	N.D.	0.5	ug/l	74	72	66-110	2	30
Nitrobenzene	N.D.	0.5	ug/l	82	78	77-119	5	30
2-Nitrophenol	N.D.	0.5	ug/l	86	81	71-118	6	30
4-Nitrophenol	N.D.	10.	ug/l	45	45	20-89	1	30
N-Nitroso-di-n-propylamine	N.D.	0.5	ug/l	74	71	71-117	4	30
N-Nitrosodiphenylamine	N.D.	0.5	ug/l	143*	134*	80-115	7	30
Di-n-octylphthalate	N.D.	2.	ug/l	90	83	72-127	9	30
Pentachlorophenol	N.D.	1.	ug/l	42*	47*	50-121	10	30
Phenanthrene	N.D.	0.1	ug/l	81	74*	81-114	9	30
Phenol	N.D.	0.5	ug/l	46	43	25-80	7	30
Pyrene	N.D.	0.1	ug/l	79	74*	76-111	6	30
1,2,4-Trichlorobenzene	N.D.	0.5	ug/l	80	79	64-107	1	30
2,4,5-Trichlorophenol	N.D.	0.5	ug/l	83	76	76-116	9	30
2,4,6-Trichlorophenol	N.D.	0.5	ug/l	88	83	75-117	6	30

Batch number: 151751848002

Sample number(s): 7939891-7939892

Aluminum	N.D.	0.0674	mg/l	107		80-120
Antimony	N.D.	0.0051	mg/l	110		80-120
Arsenic	N.D.	0.0072	mg/l	108		80-120
Barium	N.D.	0.00033	mg/l	103		80-120
Beryllium	N.D.	0.00067	mg/l	106		80-120
Cadmium	N.D.	0.00033	mg/l	106		80-120
Calcium	0.0350 J	0.0334	mg/l	104		80-120
Chromium	N.D.	0.0013	mg/l	105		80-120
Cobalt	N.D.	0.0010	mg/l	107		80-120
Iron	N.D.	0.0334	mg/l	103		80-120
Magnesium	N.D.	0.0167	mg/l	102		80-120
Manganese	N.D.	0.00083	mg/l	105		80-120
Nickel	N.D.	0.0016	mg/l	108		80-120
Potassium	N.D.	0.133	mg/l	103		80-120
Sodium	N.D.	0.167	mg/l	103		80-120
Vanadium	N.D.	0.0019	mg/l	107		80-120
Zinc	N.D.	0.0020	mg/l	104		80-120

Batch number: 151755713004

Sample number(s): 7939891-7939892

Mercury	N.D.	0.00005	mg/l	98		80-120
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Batch number: 151756050001A

Sample number(s): 7939891-7939892

Copper	0.00080 J	0.00050	mg/l	101		80-120
Lead	0.000083 J	0.00008	mg/l	98		80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571296

Reported: 07/01/2015 10:26

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Silver	N.D.	0.00013	mg/l	98		80-120		
Thallium	N.D.	0.00015	mg/l	93		80-120		
Batch number: 151756050001B	Sample number(s): 7939891-7939892							
Selenium	N.D.	0.00050	mg/l	100		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151751848002	Sample number(s): 7939891-7939892 UNSPK: P938927 BKG: P938927								
Aluminum	107	107	75-125	0	20	N.D.	N.D.	0 (1)	20
Antimony	111	110	75-125	1	20	N.D.	N.D.	0 (1)	20
Arsenic	109	108	75-125	0	20	N.D.	N.D.	0 (1)	20
Barium	103	102	75-125	1	20	0.0364	0.0375	3	20
Beryllium	105	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Cadmium	104	104	75-125	0	20	N.D.	N.D.	0 (1)	20
Calcium	100	100	75-125	0	20	7.49	7.60	1	20
Chromium	104	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Cobalt	105	106	75-125	1	20	0.0099	0.0100	1 (1)	20
Iron	124	118	75-125	1	20	3.99	4.13	3	20
Magnesium	100	100	75-125	0	20	1.25	1.26	1	20
Manganese	103	102	75-125	1	20	0.0639	0.0639	0	20
Nickel	106	107	75-125	1	20	0.0027 J	0.0030 J	8 (1)	20
Potassium	101	102	75-125	0	20	2.11	2.13	1 (1)	20
Sodium	102	103	75-125	0	20	11.0	11.2	2	20
Vanadium	106	106	75-125	0	20	N.D.	N.D.	0 (1)	20
Zinc	104	104	75-125	1	20	0.0773	0.0799	3 (1)	20
Batch number: 151755713004	Sample number(s): 7939891-7939892 UNSPK: P940994 BKG: P940994								
Mercury	101	99	80-120	2	20	N.D.	N.D.	0 (1)	20
Batch number: 151756050001A	Sample number(s): 7939891-7939892 UNSPK: P936860 BKG: P936860								
Copper	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Lead	106	102	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	85	84	75-125	1	20	N.D.	N.D.	0 (1)	20
Thallium	103	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Batch number: 151756050001B	Sample number(s): 7939891-7939892 UNSPK: P936860 BKG: P936860								
Selenium	48*	54*	75-125	11	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:26

Group Number: 1571296

Surrogate Quality Control

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: E151781AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7939891	105	102	93	92
7939892	104	100	94	92
7939893	105	100	94	91
Blank	103	101	94	93
LCS	105	105	94	92
LCSD	107	103	92	91
Limits:	80-116	77-113	80-113	78-113

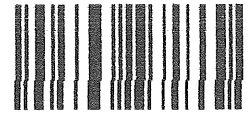
Analysis Name: TCL SW846 8270D Water
Batch number: 15176WAD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7939891	46	68	86	91	88	94
7939892	42	61	74	85	85	85
Blank	39	59	83	84	82	88
LCS	45	65	89	88	85	86
LCSD	43	60	82	83	79	79
Limits:	10-82	10-107	23-145	60-123	61-112	35-144

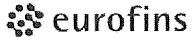
*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



366251



Lancaster Laboratories Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1571296 Sample # 7934891-93
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix			5 Analysis Requested										For Lab Use Only			
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Equipment Blank</u>			Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other										FSC: _____			
Project Name/ID: <u>CHR0717</u>		PWSID #:					Total # of Containers <u>VOCs (0260)</u> <u>SVOCs (0270)</u> <u>TAL Metals + Hg</u>												SCR#: <u>110314</u>	
Project Manager: <u>Dave Kulczyk</u>		P.O. #:																	6 Remarks 	
Sampler: <u>JS</u>		Quote #:																		
Name of state where samples were collected: <u>IN</u>				3 Grab Composite <input type="checkbox"/> Soil																
2 Sample Identification		Collected																		
		Date	Time																	
<u>RB-012</u>		<u>6/22/15</u>	<u>1610</u>																	
<u>RB-013</u>		<u>6/22/15</u>	<u>1615</u>																	
<u>TB-062215-RB</u>		<u>6/22/15</u>	<u>1620</u>																	
7 Turnaround Time (TAT) Requested (please circle) Standard _____ Rush <u>5-DAY TAT</u> (Rush TAT is subject to laboratory approval and surcharge.) Date results are needed: _____ E-mail address: <u>dkulczyk@geosyntec.com</u>				Relinquished by		Date	Time	Received by		Date	Time	9 Date Time <u>6/22/15</u> <u>16:50</u> <u>6/22/15</u> <u>14:58</u> <u>6/23/15</u> <u>09:20</u>								
				_____		6/22/15	16:50	_____		6/22/15	16:50									
				_____		6/22/15	16:30	_____		6/22/15	16:50									
				_____		6/22/15	14:58	_____		6/22/15	14:58									
				_____		6/22/15	14:58	_____		6/22/15	14:58									
8 Data Package Options (circle if required) Type I (Validation/non-CLP) <u>Level 4</u> Type VI (Raw Data Only) Type III (Reduced non-CLP) TX TRRP-13 NYSDEC Category A or B MA MCP CT RCP				EDD Required? <u>Yes</u> No		Relinquished by Commercial Carrier:														
				If yes, format: _____		UPS _____ FedEx <u>✓</u> Other _____														
				Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No <small>(If yes, indicate QC sample and submit triplicate sample volume.)</small>		Temperature upon receipt <u>2.5</u> °C														

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

June 30, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/23/2015

Group Number: 1571386

SDG: NWP17

PO Number: 201506111740

State of Sample Origin: IN

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
PLA-CS-George_Bldg-D9 Grab Concrete	7940239
PLA-CS-George_Bldg-D8 Grab Concrete	7940240
PLA-CS-George_Bldg-D8-MS Grab Concrete	7940241
PLA-CS-George_Bldg-D8-MSD Grab Concrete	7940242
PLA-CS-George_Bldg-D8-DUP Grab Concrete	7940243
PLA-S-Road-SB11-0-1 Grab Soil	7940244
PLA-S-Road-SB11-4-5 Grab Soil	7940245
PLA-S-Road-SB11-8-10 Grab Soil	7940246
PLA-S-GP-SB05-0-1 Grab Soil	7940247
PLA-S-GP-SB05-6-7 Grab Soil	7940248
DUP-062215-001 Grab Concrete	7940249
VP-S-AOC9-SB07-0-1 Grab Soil	7940250
VP-S-AOC9-SB07-4-5 Grab Soil	7940251
PLA-S-Road-SB12-0-1 Grab Soil	7940252
PLA-S-Road-SB12-7-8 Grab Soil	7940253
PLA-S-GP-SB04-0-1 Grab Soil	7940254
PLA-S-GP-SB04-7-8 Grab Soil	7940255
PLA-S-FS-SB09-0-1 Grab Soil	7940256
DUP-062215-002 Grab Soil	7940257
TB-062215-CS Water	7940258
TB-062215-S Trip Blank	7940259
PLA-S-FS-SB09-6-7 Grab Soil	7940260

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.


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Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: PLA-CS-George_Bldg-D9 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940239
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 11:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D9 SDG#: NWP17-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	11 J	7	1
10237	Benzene	71-43-2	N.D.	0.5	1
10237	Bromobenzene	108-86-1	N.D.	1	1
10237	Bromochloromethane	74-97-5	N.D.	1	1
10237	Bromodichloromethane	75-27-4	N.D.	1	1
10237	Bromoform	75-25-2	N.D.	1	1
10237	Bromomethane	74-83-9	N.D.	2	1
10237	2-Butanone	78-93-3	N.D.	4	1
10237	n-Butylbenzene	104-51-8	N.D.	1	1
10237	sec-Butylbenzene	135-98-8	N.D.	1	1
10237	tert-Butylbenzene	98-06-6	N.D.	1	1
10237	Carbon Disulfide	75-15-0	N.D.	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1
10237	Chlorobenzene	108-90-7	N.D.	1	1
10237	Chloroethane	75-00-3	N.D.	2	1
10237	Chloroform	67-66-3	N.D.	1	1
10237	Chloromethane	74-87-3	N.D.	2	1
10237	2-Chlorotoluene	95-49-8	N.D.	1	1
10237	4-Chlorotoluene	106-43-4	N.D.	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10237	Dibromochloromethane	124-48-1	N.D.	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1
10237	Dibromomethane	74-95-3	N.D.	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10237	Ethylbenzene	100-41-4	N.D.	1	1
10237	2-Hexanone	591-78-6	N.D.	3	1
10237	Isopropylbenzene	98-82-8	N.D.	1	1
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10237	Methylene Chloride	75-09-2	N.D.	2	1
10237	n-Propylbenzene	103-65-1	N.D.	1	1
10237	Styrene	100-42-5	N.D.	1	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10237	Tetrachloroethene	127-18-4	N.D.	1	1
10237	Toluene	108-88-3	N.D.	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1

Sample Description: PLA-CS-George_Bldg-D9 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940239
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 11:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D9 SDG#: NWP17-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1
10237	Trichloroethene	79-01-6	N.D.	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10237	Vinyl Chloride	75-01-4	N.D.	1	1
10237	m+p-Xylene	179601-23-1	N.D.	1	1
10237	o-Xylene	95-47-6	N.D.	1	1

Sample contains concrete which is known to react with and decrease the recoveries of the method surrogate standards. Therefore, no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	750	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	5 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	4 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	5 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	4 J	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	71	1
10726	Di-n-butylphthalate	84-74-2	N.D.	71	1
10726	Carbazole	86-74-8	N.D.	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	6 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	71	1

Sample Description: PLA-CS-George_Bldg-D9 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940239
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 11:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D9 SDG#: NWP17-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	71	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	71	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	71	1
10726	Fluoranthene	206-44-0	4 J	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	5 J	4	1
10726	Isophorone	78-59-1	53	18	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	71	1
10726	4-Nitroaniline	100-01-6	N.D.	71	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	71	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	9 J	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	5 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Hexachlorobutadiene

Sample Description: PLA-CS-George_Bldg-D9 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940239
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 11:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D9 SDG#: NWP17-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
	Nitrobenzene				
	Isophorone				
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,860	4.79	1
06944	Antimony	7440-36-0	0.381 J	0.348	1
06935	Arsenic	7440-38-2	2.49	0.675	1
06946	Barium	7440-39-3	47.8	0.0348	1
06947	Beryllium	7440-41-7	0.754	0.0706	1
06949	Cadmium	7440-43-9	0.161 J	0.0348	1
01650	Calcium	7440-70-2	162,000	20.0	5
06951	Chromium	7440-47-3	8.22	0.116	1
06952	Cobalt	7440-48-4	2.70	0.101	1
06953	Copper	7440-50-8	7.58	0.348	1
01654	Iron	7439-89-6	6,610	3.52	1
06955	Lead	7439-92-1	5.60	0.527	1
01657	Magnesium	7439-95-4	45,500	1.76	1
06958	Manganese	7439-96-5	697	0.0875	1
06961	Nickel	7440-02-0	6.02	0.158	1
01662	Potassium	7440-09-7	706	13.7	1
06936	Selenium	7782-49-2	N.D.	0.464	1
06966	Silver	7440-22-4	0.601	0.200	1
01667	Sodium	7440-23-5	333	17.6	1
06925	Thallium	7440-28-0	N.D.	0.843	1
06971	Vanadium	7440-62-2	9.75	0.0959	1
06972	Zinc	7440-66-6	27.7	0.274	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0100	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	7.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 06:38	Stephanie A Selis	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:52	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George_Bldg-D9 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940239
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 11:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D9 SDG#: NWP17-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:33	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLH026	06/26/2015 00:37	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLH026	06/25/2015 08:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/29/2015 15:10	Eric L Eby	5
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015 15:07	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015 09:31	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 09:24	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015 19:06	Scott W Freisher	1

Sample Description: PLA-CS-George_Bldg-D8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940240
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	25	7	0.98
10237	Benzene	71-43-2	N.D.	0.5	0.98
10237	Bromobenzene	108-86-1	N.D.	1	0.98
10237	Bromochloromethane	74-97-5	N.D.	1	0.98
10237	Bromodichloromethane	75-27-4	N.D.	1	0.98
10237	Bromoform	75-25-2	N.D.	1	0.98
10237	Bromomethane	74-83-9	N.D.	2	0.98
10237	2-Butanone	78-93-3	N.D.	4	0.98
10237	n-Butylbenzene	104-51-8	N.D.	1	0.98
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.98
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.98
10237	Carbon Disulfide	75-15-0	N.D.	1	0.98
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.98
10237	Chlorobenzene	108-90-7	N.D.	1	0.98
10237	Chloroethane	75-00-3	N.D.	2	0.98
10237	Chloroform	67-66-3	N.D.	1	0.98
10237	Chloromethane	74-87-3	N.D.	2	0.98
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.98
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.98
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.98
10237	Dibromochloromethane	124-48-1	N.D.	1	0.98
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.98
10237	Dibromomethane	74-95-3	N.D.	1	0.98
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.98
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.98
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.98
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.98
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.98
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.98
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.98
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.98
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.98
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.98
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.98
10237	Ethylbenzene	100-41-4	N.D.	1	0.98
10237	2-Hexanone	591-78-6	N.D.	3	0.98
10237	Isopropylbenzene	98-82-8	N.D.	1	0.98
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.98
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.98
10237	Methylene Chloride	75-09-2	N.D.	2	0.98
10237	n-Propylbenzene	103-65-1	N.D.	1	0.98
10237	Styrene	100-42-5	N.D.	1	0.98
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.98
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.98
10237	Tetrachloroethene	127-18-4	N.D.	1	0.98
10237	Toluene	108-88-3	N.D.	1	0.98
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.98
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.98

Sample Description: PLA-CS-George_Bldg-D8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940240
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.98
10237	Trichloroethene	79-01-6	N.D.	1	0.98
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.98
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.98
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.98
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.98
10237	Vinyl Chloride	75-01-4	N.D.	1	0.98
10237	m+p-Xylene	179601-23-1	N.D.	1	0.98
10237	o-Xylene	95-47-6	N.D.	1	0.98
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benizidine	92-87-5	N.D.	750	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	5 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	72	1
10726	Di-n-butylphthalate	84-74-2	N.D.	72	1
10726	Carbazole	86-74-8	N.D.	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	36	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	N.D.	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	72	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	72	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-CS-George_Bldg-D8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940240
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	72	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	72	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	36	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	130	18	1
10726	2-Methylnaphthalene	91-57-6	4 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	72	1
10726	4-Nitroaniline	100-01-6	N.D.	72	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	72	1
10726	Pentachlorophenol	87-86-5	N.D.	36	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	N.D.	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

- Hexachlorobutadiene
- Nitrobenzene
- Isophorone

Sample Description: PLA-CS-George_Bldg-D8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940240
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	6,960	4.78	1
06944	Antimony	7440-36-0	0.434 J	0.347	1
06935	Arsenic	7440-38-2	4.17	0.674	1
06946	Barium	7440-39-3	62.8	0.0347	1
06947	Beryllium	7440-41-7	0.932	0.0706	1
06949	Cadmium	7440-43-9	0.132 J	0.0347	1
01650	Calcium	7440-70-2	147,000	20.0	5
06951	Chromium	7440-47-3	7.60	0.116	1
06952	Cobalt	7440-48-4	2.61	0.101	1
06953	Copper	7440-50-8	8.08	0.347	1
01654	Iron	7439-89-6	12,400	3.52	1
06955	Lead	7439-92-1	7.47	0.527	1
01657	Magnesium	7439-95-4	30,400	1.76	1
06958	Manganese	7439-96-5	868	0.0874	1
06961	Nickel	7440-02-0	7.23	0.158	1
01662	Potassium	7440-09-7	881	13.7	1
06936	Selenium	7782-49-2	0.692 J	0.463	1
06966	Silver	7440-22-4	0.245 J	0.200	1
01667	Sodium	7440-23-5	381	17.6	1
06925	Thallium	7440-28-0	N.D.	0.842	1
06971	Vanadium	7440-62-2	8.94	0.0958	1
06972	Zinc	7440-66-6	34.9	0.274	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0106	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	7.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 03:36	Stephanie A Selis	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:36	Lois E Hiltz	n.a.

Sample Description: PLA-CS-George_Bldg-D8 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940240
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

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Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLH026	06/26/2015 00:59	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLH026	06/25/2015 08:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/29/2015 14:46	Eric L Eby	5
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015 14:29	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015 09:10	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 09:12	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	2	15180820006A	06/29/2015 21:12	Scott W Freisher	1

Sample Description: PLA-CS-George_Bldg-D8-MS Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940241
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	170	7	0.94
10237	Benzene	71-43-2	21	0.5	0.94
10237	Bromobenzene	108-86-1	19	1	0.94
10237	Bromochloromethane	74-97-5	23	1	0.94
10237	Bromodichloromethane	75-27-4	18	1	0.94
10237	Bromoform	75-25-2	14	1	0.94
10237	Bromomethane	74-83-9	22	2	0.94
10237	2-Butanone	78-93-3	140	4	0.94
10237	n-Butylbenzene	104-51-8	13	1	0.94
10237	sec-Butylbenzene	135-98-8	15	1	0.94
10237	tert-Butylbenzene	98-06-6	15	1	0.94
10237	Carbon Disulfide	75-15-0	17	1	0.94
10237	Carbon Tetrachloride	56-23-5	18	1	0.94
10237	Chlorobenzene	108-90-7	19	1	0.94
10237	Chloroethane	75-00-3	21	2	0.94
10237	Chloroform	67-66-3	22	1	0.94
10237	Chloromethane	74-87-3	21	2	0.94
10237	2-Chlorotoluene	95-49-8	17	1	0.94
10237	4-Chlorotoluene	106-43-4	17	1	0.94
10237	1,2-Dibromo-3-chloropropane	96-12-8	13	2	0.94
10237	Dibromochloromethane	124-48-1	17	1	0.94
10237	1,2-Dibromoethane	106-93-4	20	1	0.94
10237	Dibromomethane	74-95-3	20	1	0.94
10237	Dichlorodifluoromethane	75-71-8	22	2	0.94
10237	1,1-Dichloroethane	75-34-3	20	1	0.94
10237	1,2-Dichloroethane	107-06-2	22	1	0.94
10237	1,1-Dichloroethene	75-35-4	25	1	0.94
10237	cis-1,2-Dichloroethene	156-59-2	22	1	0.94
10237	trans-1,2-Dichloroethene	156-60-5	22	1	0.94
10237	1,2-Dichloropropane	78-87-5	20	1	0.94
10237	1,3-Dichloropropane	142-28-9	19	1	0.94
10237	2,2-Dichloropropane	594-20-7	18	1	0.94
10237	1,1-Dichloropropene	563-58-6	19	1	0.94
10237	cis-1,3-Dichloropropene	10061-01-5	17	1	0.94
10237	trans-1,3-Dichloropropene	10061-02-6	17	1	0.94
10237	Ethylbenzene	100-41-4	18	1	0.94
10237	2-Hexanone	591-78-6	83	3	0.94
10237	Isopropylbenzene	98-82-8	16	1	0.94
10237	p-Isopropyltoluene	99-87-6	14	1	0.94
10237	Methyl Tertiary Butyl Ether	1634-04-4	21	0.5	0.94
10237	4-Methyl-2-pentanone	108-10-1	83	3	0.94
10237	Methylene Chloride	75-09-2	22	2	0.94
10237	n-Propylbenzene	103-65-1	16	1	0.94
10237	Styrene	100-42-5	17	1	0.94
10237	1,1,1,2-Tetrachloroethane	630-20-6	18	1	0.94
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.94
10237	Tetrachloroethene	127-18-4	35	1	0.94
10237	Toluene	108-88-3	20	1	0.94
10237	1,2,3-Trichlorobenzene	87-61-6	10	1	0.94
10237	1,1,1-Trichloroethane	71-55-6	18	1	0.94

Sample Description: PLA-CS-George_Bldg-D8-MS Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940241
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	17	1	0.94
10237	Trichloroethene	79-01-6	37	1	0.94
10237	Trichlorofluoromethane	75-69-4	23	2	0.94
10237	1,2,3-Trichloropropane	96-18-4	20	1	0.94
10237	1,2,4-Trimethylbenzene	95-63-6	15	1	0.94
10237	1,3,5-Trimethylbenzene	108-67-8	16	1	0.94
10237	Vinyl Chloride	75-01-4	21	1	0.94
10237	m+p-Xylene	179601-23-1	35	1	0.94
10237	o-Xylene	95-47-6	17	1	0.94
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,800	4	1
10726	Acenaphthylene	208-96-8	2,000	4	1
10726	Anthracene	120-12-7	1,900	4	1
10726	Benzidine	92-87-5	5,400	760	1
10726	Benzo(a)anthracene	56-55-3	1,600	4	1
10726	Benzo(a)pyrene	50-32-8	1,800	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,800	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,900	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,700	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	1,700	180	1
10726	4-Bromophenyl-phenylether	101-55-3	1,800	18	1
10726	Butylbenzylphthalate	85-68-7	1,700	72	1
10726	Di-n-butylphthalate	84-74-2	1,800	72	1
10726	Carbazole	86-74-8	1,900	18	1
10726	4-Chloro-3-methylphenol	59-50-7	720	18	1
10726	4-Chloroaniline	106-47-8	1,100	36	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,600	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,600	18	1
10726	2-Chloronaphthalene	91-58-7	2,000	8	1
10726	2-Chlorophenol	95-57-8	320	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,700	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,700	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	1,700	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,800	4	1
10726	Dibenzofuran	132-64-9	1,800	18	1
10726	1,2-Dichlorobenzene	95-50-1	1,800	18	1
10726	1,3-Dichlorobenzene	541-73-1	1,700	18	1
10726	1,4-Dichlorobenzene	106-46-7	1,700	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	850	110	1
10726	2,4-Dichlorophenol	120-83-2	110	18	1
10726	Diethylphthalate	84-66-2	1,700	72	1
10726	2,4-Dimethylphenol	105-67-9	1,400	18	1
10726	Dimethylphthalate	131-11-3	1,600	72	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-CS-George_Bldg-D8-MS Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940241
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

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Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	1,600	72	1
10726	2,6-Dinitrotoluene	606-20-2	1,900	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	72	1
10726	Fluoranthene	206-44-0	1,600	4	1
10726	Fluorene	86-73-7	1,900	4	1
10726	Hexachlorobenzene	118-74-1	1,800	4	1
10726	Hexachlorobutadiene	87-68-3	1,500	18	1
10726	Hexachlorocyclopentadiene	77-47-4	2,300	180	1
10726	Hexachloroethane	67-72-1	1,600	36	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	4	1
10726	Isophorone	78-59-1	1,600	18	1
10726	2-Methylnaphthalene	91-57-6	1,700	4	1
10726	2-Methylphenol	95-48-7	1,500	18	1
10726	4-Methylphenol	106-44-5	1,200	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	1,800	4	1
10726	2-Nitroaniline	88-74-4	2,000	18	1
10726	3-Nitroaniline	99-09-2	1,700	72	1
10726	4-Nitroaniline	100-01-6	1,800	72	1
10726	Nitrobenzene	98-95-3	1,400	18	1
10726	2-Nitrophenol	88-75-5	30 J	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	1
10726	N-Nitrosodiphenylamine	86-30-6	1,900	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	1,800	72	1
10726	Pentachlorophenol	87-86-5	40 J	36	1
10726	Phenanthrene	85-01-8	1,800	4	1
10726	Phenol	108-95-2	1,000	18	1
10726	Pyrene	129-00-0	1,700	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,700	18	1
10726	2,4,5-Trichlorophenol	95-95-4	40	18	1
10726	2,4,6-Trichlorophenol	88-06-2	34 J	18	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,310	4.78	1
06944	Antimony	7440-36-0	47.2	0.347	1
06935	Arsenic	7440-38-2	19.4	0.674	1
06946	Barium	7440-39-3	275	0.0347	1
06947	Beryllium	7440-41-7	6.21	0.0706	1
06949	Cadmium	7440-43-9	4.83	0.0347	1
01650	Calcium	7440-70-2	125,000	20.0	5

Sample Description: PLA-CS-George_Bldg-D8-MS Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940241
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06951	Chromium	7440-47-3	27.2	0.116	1
06952	Cobalt	7440-48-4	49.1	0.101	1
06953	Copper	7440-50-8	37.4	0.347	1
01654	Iron	7439-89-6	8,590	3.52	1
06955	Lead	7439-92-1	20.1	0.527	1
01657	Magnesium	7439-95-4	18,700	1.76	1
06958	Manganese	7439-96-5	813	0.0874	1
06961	Nickel	7440-02-0	54.2	0.158	1
01662	Potassium	7440-09-7	1,900	13.7	1
06936	Selenium	7782-49-2	17.3	0.463	1
06966	Silver	7440-22-4	5.89	0.200	1
01667	Sodium	7440-23-5	1,360	17.6	1
06925	Thallium	7440-28-0	15.8	0.842	1
06971	Vanadium	7440-62-2	64.7	0.0958	1
06972	Zinc	7440-66-6	104	0.274	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.184	0.0108	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	7.8	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 03:59	Stephanie A Selis	0.94
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:41	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLH026	06/26/2015 01:23	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLH026	06/25/2015 08:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:21	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:21	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:21	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:21	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:21	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:21	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/29/2015 14:59	Eric L Eby	5

Sample Description: PLA-CS-George_Bldg-D8-MS Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940241
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	14:38	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	09:21	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:18	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00118	Moisture	SM 2540 G-1997	2	15180820006A	06/29/2015	21:12	Scott W Freisher	1

Sample Description: PLA-CS-George_Bldg-D8-MSD Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940242
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	160	7	0.95
10237	Benzene	71-43-2	20	0.5	0.95
10237	Bromobenzene	108-86-1	18	1	0.95
10237	Bromochloromethane	74-97-5	22	1	0.95
10237	Bromodichloromethane	75-27-4	18	1	0.95
10237	Bromoform	75-25-2	14	1	0.95
10237	Bromomethane	74-83-9	22	2	0.95
10237	2-Butanone	78-93-3	130	4	0.95
10237	n-Butylbenzene	104-51-8	12	1	0.95
10237	sec-Butylbenzene	135-98-8	14	1	0.95
10237	tert-Butylbenzene	98-06-6	14	1	0.95
10237	Carbon Disulfide	75-15-0	17	1	0.95
10237	Carbon Tetrachloride	56-23-5	18	1	0.95
10237	Chlorobenzene	108-90-7	18	1	0.95
10237	Chloroethane	75-00-3	22	2	0.95
10237	Chloroform	67-66-3	21	1	0.95
10237	Chloromethane	74-87-3	22	2	0.95
10237	2-Chlorotoluene	95-49-8	17	1	0.95
10237	4-Chlorotoluene	106-43-4	16	1	0.95
10237	1,2-Dibromo-3-chloropropane	96-12-8	13	2	0.95
10237	Dibromochloromethane	124-48-1	16	1	0.95
10237	1,2-Dibromoethane	106-93-4	19	1	0.95
10237	Dibromomethane	74-95-3	19	1	0.95
10237	Dichlorodifluoromethane	75-71-8	23	2	0.95
10237	1,1-Dichloroethane	75-34-3	20	1	0.95
10237	1,2-Dichloroethane	107-06-2	22	1	0.95
10237	1,1-Dichloroethene	75-35-4	25	1	0.95
10237	cis-1,2-Dichloroethene	156-59-2	21	1	0.95
10237	trans-1,2-Dichloroethene	156-60-5	22	1	0.95
10237	1,2-Dichloropropane	78-87-5	20	1	0.95
10237	1,3-Dichloropropane	142-28-9	18	1	0.95
10237	2,2-Dichloropropane	594-20-7	18	1	0.95
10237	1,1-Dichloropropene	563-58-6	19	1	0.95
10237	cis-1,3-Dichloropropene	10061-01-5	17	1	0.95
10237	trans-1,3-Dichloropropene	10061-02-6	16	1	0.95
10237	Ethylbenzene	100-41-4	17	1	0.95
10237	2-Hexanone	591-78-6	75	3	0.95
10237	Isopropylbenzene	98-82-8	16	1	0.95
10237	p-Isopropyltoluene	99-87-6	14	1	0.95
10237	Methyl Tertiary Butyl Ether	1634-04-4	20	0.5	0.95
10237	4-Methyl-2-pentanone	108-10-1	81	3	0.95
10237	Methylene Chloride	75-09-2	22	2	0.95
10237	n-Propylbenzene	103-65-1	16	1	0.95
10237	Styrene	100-42-5	17	1	0.95
10237	1,1,1,2-Tetrachloroethane	630-20-6	18	1	0.95
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.95
10237	Tetrachloroethene	127-18-4	34	1	0.95
10237	Toluene	108-88-3	19	1	0.95
10237	1,2,3-Trichlorobenzene	87-61-6	9	1	0.95
10237	1,1,1-Trichloroethane	71-55-6	18	1	0.95

Sample Description: PLA-CS-George_Bldg-D8-MSD Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940242
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	16	1	0.95
10237	Trichloroethene	79-01-6	36	1	0.95
10237	Trichlorofluoromethane	75-69-4	24	2	0.95
10237	1,2,3-Trichloropropane	96-18-4	19	1	0.95
10237	1,2,4-Trimethylbenzene	95-63-6	15	1	0.95
10237	1,3,5-Trimethylbenzene	108-67-8	15	1	0.95
10237	Vinyl Chloride	75-01-4	22	1	0.95
10237	m+p-Xylene	179601-23-1	34	1	0.95
10237	o-Xylene	95-47-6	17	1	0.95
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,800	4	1
10726	Acenaphthylene	208-96-8	2,000	4	1
10726	Anthracene	120-12-7	1,900	4	1
10726	Benzidine	92-87-5	5,000	750	1
10726	Benzo(a)anthracene	56-55-3	1,700	4	1
10726	Benzo(a)pyrene	50-32-8	1,800	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,800	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,800	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,700	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	1,700	180	1
10726	4-Bromophenyl-phenylether	101-55-3	1,700	18	1
10726	Butylbenzylphthalate	85-68-7	1,700	72	1
10726	Di-n-butylphthalate	84-74-2	1,700	72	1
10726	Carbazole	86-74-8	1,800	18	1
10726	4-Chloro-3-methylphenol	59-50-7	1,000	18	1
10726	4-Chloroaniline	106-47-8	1,100	36	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,600	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,600	18	1
10726	2-Chloronaphthalene	91-58-7	2,100	8	1
10726	2-Chlorophenol	95-57-8	640	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,700	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,600	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	1,700	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,800	4	1
10726	Dibenzofuran	132-64-9	1,800	18	1
10726	1,2-Dichlorobenzene	95-50-1	1,700	18	1
10726	1,3-Dichlorobenzene	541-73-1	1,600	18	1
10726	1,4-Dichlorobenzene	106-46-7	1,700	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	860	110	1
10726	2,4-Dichlorophenol	120-83-2	180	18	1
10726	Diethylphthalate	84-66-2	1,600	72	1
10726	2,4-Dimethylphenol	105-67-9	1,500	18	1
10726	Dimethylphthalate	131-11-3	1,600	72	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-CS-George_Bldg-D8-MSD Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940242
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	1,600	72	1
10726	2,6-Dinitrotoluene	606-20-2	1,800	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	72	1
10726	Fluoranthene	206-44-0	1,700	4	1
10726	Fluorene	86-73-7	1,800	4	1
10726	Hexachlorobenzene	118-74-1	1,800	4	1
10726	Hexachlorobutadiene	87-68-3	1,500	18	1
10726	Hexachlorocyclopentadiene	77-47-4	2,500	180	1
10726	Hexachloroethane	67-72-1	1,600	36	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	4	1
10726	Isophorone	78-59-1	1,600	18	1
10726	2-Methylnaphthalene	91-57-6	1,700	4	1
10726	2-Methylphenol	95-48-7	1,600	18	1
10726	4-Methylphenol	106-44-5	1,400	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	1,700	4	1
10726	2-Nitroaniline	88-74-4	2,000	18	1
10726	3-Nitroaniline	99-09-2	1,600	72	1
10726	4-Nitroaniline	100-01-6	1,900	72	1
10726	Nitrobenzene	98-95-3	1,300	18	1
10726	2-Nitrophenol	88-75-5	21 J	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,400	18	1
10726	N-Nitrosodiphenylamine	86-30-6	1,800	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	1,800	72	1
10726	Pentachlorophenol	87-86-5	N.D.	36	1
10726	Phenanthrene	85-01-8	1,800	4	1
10726	Phenol	108-95-2	1,300	18	1
10726	Pyrene	129-00-0	1,700	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,700	18	1
10726	2,4,5-Trichlorophenol	95-95-4	34 J	18	1
10726	2,4,6-Trichlorophenol	88-06-2	25 J	18	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,170	4.78	1
06944	Antimony	7440-36-0	50.4	0.347	1
06935	Arsenic	7440-38-2	21.1	0.674	1
06946	Barium	7440-39-3	268	0.0347	1
06947	Beryllium	7440-41-7	6.00	0.0706	1
06949	Cadmium	7440-43-9	4.84	0.0347	1
01650	Calcium	7440-70-2	143,000	20.0	5

Sample Description: PLA-CS-George_Bldg-D8-MSD Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940242
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

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Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06951	Chromium	7440-47-3	29.4	0.116	1
06952	Cobalt	7440-48-4	50.2	0.101	1
06953	Copper	7440-50-8	36.1	0.347	1
01654	Iron	7439-89-6	9,200	3.52	1
06955	Lead	7439-92-1	24.2	0.527	1
01657	Magnesium	7439-95-4	29,900	1.76	1
06958	Manganese	7439-96-5	678	0.0874	1
06961	Nickel	7440-02-0	57.5	0.158	1
01662	Potassium	7440-09-7	2,130	13.7	1
06936	Selenium	7782-49-2	17.1	0.463	1
06966	Silver	7440-22-4	6.01	0.200	1
01667	Sodium	7440-23-5	1,520	17.6	1
06925	Thallium	7440-28-0	16.1	0.842	1
06971	Vanadium	7440-62-2	64.5	0.0958	1
06972	Zinc	7440-66-6	83.9	0.274	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.174	0.0107	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	7.8	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 04:21	Stephanie A Selis	0.95
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:45	Lois E Hiltz	n.a.
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLH026	06/26/2015 01:47	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLH026	06/25/2015 08:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:24	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:24	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:24	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:24	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:24	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:24	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/29/2015 15:02	Eric L Eby	5

Sample Description: PLA-CS-George_Bldg-D8-MSD Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940242
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	14:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	09:24	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:20	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00118	Moisture	SM 2540 G-1997	2	15180820006A	06/29/2015	21:12	Scott W Freisher	1

Sample Description: PLA-CS-George_Bldg-D8-DUP Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940243
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	7,640	4.78	1
06944	Antimony	7440-36-0	0.603 J	0.347	1
06935	Arsenic	7440-38-2	4.87	0.674	1
06946	Barium	7440-39-3	64.9	0.0347	1
06947	Beryllium	7440-41-7	1.04	0.0706	1
06949	Cadmium	7440-43-9	0.138 J	0.0347	1
01650	Calcium	7440-70-2	155,000	20.0	5
06951	Chromium	7440-47-3	8.48	0.116	1
06952	Cobalt	7440-48-4	2.68	0.101	1
06953	Copper	7440-50-8	9.01	0.347	1
01654	Iron	7439-89-6	9,650	3.52	1
06955	Lead	7439-92-1	6.59	0.527	1
01657	Magnesium	7439-95-4	21,400	1.76	1
06958	Manganese	7439-96-5	725	0.0874	1
06961	Nickel	7440-02-0	8.34	0.158	1
01662	Potassium	7440-09-7	795	13.7	1
06936	Selenium	7782-49-2	1.01 J	0.463	1
06966	Silver	7440-22-4	0.264 J	0.200	1
01667	Sodium	7440-23-5	368	17.6	1
06925	Thallium	7440-28-0	N.D.	0.842	1
06971	Vanadium	7440-62-2	9.80	0.0958	1
06972	Zinc	7440-66-6	37.1	0.274	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0105	1

Wet Chemistry		SM 2540 G-1997	%	%	
00118	Moisture	n.a.	7.8	0.50	1
00121	Moisture Duplicate	n.a.	7.0	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:17	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:17	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:17	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:17	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:17	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:17	Suzanne M Will	1

Sample Description: PLA-CS-George_Bldg-D8-DUP Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940243
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

GR-D8 SDG#: NWP17-02DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	151765708003	06/29/2015	14:56	Eric L Eby	5
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	14:35	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	09:17	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:16	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00118	Moisture	SM 2540 G-1997	2	15180820006A	06/29/2015	21:12	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	2	15180820006A	06/29/2015	21:12	Scott W Freisher	1

Sample Description: PLA-S-Road-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940244
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-110 SDG#: NWP17-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	0.93
10237	Benzene	71-43-2	N.D.	0.5	0.93
10237	Bromobenzene	108-86-1	N.D.	1	0.93
10237	Bromochloromethane	74-97-5	N.D.	1	0.93
10237	Bromodichloromethane	75-27-4	N.D.	1	0.93
10237	Bromoform	75-25-2	N.D.	1	0.93
10237	Bromomethane	74-83-9	N.D.	2	0.93
10237	2-Butanone	78-93-3	N.D.	4	0.93
10237	n-Butylbenzene	104-51-8	N.D.	1	0.93
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.93
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.93
10237	Carbon Disulfide	75-15-0	N.D.	1	0.93
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.93
10237	Chlorobenzene	108-90-7	N.D.	1	0.93
10237	Chloroethane	75-00-3	N.D.	2	0.93
10237	Chloroform	67-66-3	3 J	1	0.93
10237	Chloromethane	74-87-3	N.D.	2	0.93
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.93
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.93
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.93
10237	Dibromochloromethane	124-48-1	N.D.	1	0.93
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.93
10237	Dibromomethane	74-95-3	N.D.	1	0.93
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.93
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.93
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.93
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.93
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.93
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.93
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.93
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.93
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.93
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.93
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.93
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.93
10237	Ethylbenzene	100-41-4	N.D.	1	0.93
10237	2-Hexanone	591-78-6	N.D.	3	0.93
10237	Isopropylbenzene	98-82-8	N.D.	1	0.93
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.93
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.93
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.93
10237	Methylene Chloride	75-09-2	N.D.	2	0.93
10237	n-Propylbenzene	103-65-1	N.D.	1	0.93
10237	Styrene	100-42-5	N.D.	1	0.93
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.93
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.93
10237	Tetrachloroethene	127-18-4	N.D.	1	0.93
10237	Toluene	108-88-3	N.D.	1	0.93
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.93
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.93

Sample Description: PLA-S-Road-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940244
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-110 SDG#: NWP17-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.93
10237	Trichloroethene	79-01-6	N.D.	1	0.93
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.93
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.93
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.93
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.93
10237	Vinyl Chloride	75-01-4	N.D.	1	0.93
10237	m+p-Xylene	179601-23-1	N.D.	1	0.93
10237	o-Xylene	95-47-6	N.D.	1	0.93
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	38	10
10726	Acenaphthylene	208-96-8	N.D.	38	10
10726	Anthracene	120-12-7	N.D.	38	10
10726	Benzidine	92-87-5	N.D.	8,100	10
10726	Benzo(a)anthracene	56-55-3	150 J	38	10
10726	Benzo(a)pyrene	50-32-8	160 J	38	10
10726	Benzo(b)fluoranthene	205-99-2	150 J	38	10
10726	Benzo(g,h,i)perylene	191-24-2	140 J	38	10
10726	Benzo(k)fluoranthene	207-08-9	110 J	38	10
10726	Benzoic acid	65-85-0	N.D.	1,900	10
10726	Benzyl alcohol	100-51-6	N.D.	1,900	10
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	190	10
10726	Butylbenzylphthalate	85-68-7	N.D.	770	10
10726	Di-n-butylphthalate	84-74-2	N.D.	770	10
10726	Carbazole	86-74-8	N.D.	190	10
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	190	10
10726	4-Chloroaniline	106-47-8	N.D.	380	10
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	190	10
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	190	10
10726	2-Chloronaphthalene	91-58-7	N.D.	81	10
10726	2-Chlorophenol	95-57-8	N.D.	190	10
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	190	10
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	190	10
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	150 J	38	10
10726	Dibenz(a,h)anthracene	53-70-3	68 J	38	10
10726	Dibenzofuran	132-64-9	N.D.	190	10
10726	1,2-Dichlorobenzene	95-50-1	N.D.	190	10
10726	1,3-Dichlorobenzene	541-73-1	N.D.	190	10
10726	1,4-Dichlorobenzene	106-46-7	N.D.	190	10
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	1,200	10
10726	2,4-Dichlorophenol	120-83-2	N.D.	190	10
10726	Diethylphthalate	84-66-2	N.D.	770	10
10726	2,4-Dimethylphenol	105-67-9	N.D.	190	10
10726	Dimethylphthalate	131-11-3	N.D.	770	10
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	1,900	10

Sample Description: PLA-S-Road-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940244
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-110 SDG#: NWP17-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	3,500	10
10726	2,4-Dinitrotoluene	121-14-2	N.D.	770	10
10726	2,6-Dinitrotoluene	606-20-2	N.D.	190	10
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	770	10
10726	Fluoranthene	206-44-0	87	38	10
10726	Fluorene	86-73-7	N.D.	38	10
10726	Hexachlorobenzene	118-74-1	N.D.	38	10
10726	Hexachlorobutadiene	87-68-3	N.D.	190	10
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	1,900	10
10726	Hexachloroethane	67-72-1	N.D.	380	10
10726	Indeno(1,2,3-cd)pyrene	193-39-5	140	38	10
10726	Isophorone	78-59-1	N.D.	190	10
10726	2-Methylnaphthalene	91-57-6	400	38	10
10726	2-Methylphenol	95-48-7	N.D.	190	10
10726	4-Methylphenol	106-44-5	N.D.	190	10
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	38	10
10726	2-Nitroaniline	88-74-4	N.D.	190	10
10726	3-Nitroaniline	99-09-2	N.D.	770	10
10726	4-Nitroaniline	100-01-6	N.D.	770	10
10726	Nitrobenzene	98-95-3	N.D.	190	10
10726	2-Nitrophenol	88-75-5	N.D.	190	10
10726	4-Nitrophenol	100-02-7	N.D.	1,900	10
10726	N-Nitroso-di-n-propylamine	621-64-7	6,800	190	10
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	190	10
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	770	10
10726	Pentachlorophenol	87-86-5	N.D.	380	10
10726	Phenanthrene	85-01-8	200	38	10
10726	Phenol	108-95-2	N.D.	190	10
10726	Pyrene	129-00-0	N.D.	38	10
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	190	10
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	190	10
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	190	10
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,880	5.20	1
06944	Antimony	7440-36-0	8.07	0.378	1
06935	Arsenic	7440-38-2	17.4	0.733	1
06946	Barium	7440-39-3	8,000	0.378	10
06947	Beryllium	7440-41-7	0.804	0.0767	1
06949	Cadmium	7440-43-9	2.79	0.0378	1
01650	Calcium	7440-70-2	11,000	4.34	1
06951	Chromium	7440-47-3	510	0.126	1
06952	Cobalt	7440-48-4	9.68	0.110	1
06953	Copper	7440-50-8	45.7	0.378	1

Sample Description: PLA-S-Road-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940244
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-110 SDG#: NWP17-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	23,100	3.83	1
06955	Lead	7439-92-1	3,340	5.73	10
01657	Magnesium	7439-95-4	4,010	1.91	1
06958	Manganese	7439-96-5	253	0.0951	1
06961	Nickel	7440-02-0	24.4	0.172	1
01662	Potassium	7440-09-7	784	14.9	1
06936	Selenium	7782-49-2	1.89 J	0.504	1
06966	Silver	7440-22-4	0.630	0.218	1
01667	Sodium	7440-23-5	72.0 J	19.1	1
06925	Thallium	7440-28-0	N.D.	0.916	1
06971	Vanadium	7440-62-2	19.9	0.104	1
06972	Zinc	7440-66-6	2,440	1.49	5
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.116	0.0115	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	14.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 10:46	Stephanie A Selis	0.93
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:41	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:41	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 10:25	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	2	201517438061	06/22/2015 10:25	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 02:33	William H Saadeh	10
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:35	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:35	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:35	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/29/2015 15:15	Eric L Eby	10
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:35	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:35	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 09:35	Suzanne M Will	1

Sample Description: PLA-S-Road-SB11-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940244
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-110 SDG#: NWP17-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	15:15	Eric L Eby	10
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	09:35	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	10:44	Suzanne M Will	5
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:26	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: PLA-S-Road-SB11-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940245
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:55

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-114 SDG#: NWP17-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.78
10237	Benzene	71-43-2	N.D.	0.5	0.78
10237	Bromobenzene	108-86-1	N.D.	0.9	0.78
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.78
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.78
10237	Bromoform	75-25-2	N.D.	0.9	0.78
10237	Bromomethane	74-83-9	N.D.	2	0.78
10237	2-Butanone	78-93-3	N.D.	4	0.78
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.78
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.78
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.78
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.78
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.78
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.78
10237	Chloroethane	75-00-3	N.D.	2	0.78
10237	Chloroform	67-66-3	N.D.	0.9	0.78
10237	Chloromethane	74-87-3	N.D.	2	0.78
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.78
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.78
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.78
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.78
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.78
10237	Dibromomethane	74-95-3	N.D.	0.9	0.78
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.78
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.78
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.78
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.78
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.78
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.78
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.78
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.78
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.78
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.78
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.78
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.78
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.78
10237	2-Hexanone	591-78-6	N.D.	3	0.78
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.78
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.78
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.78
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.78
10237	Methylene Chloride	75-09-2	N.D.	2	0.78
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.78
10237	Styrene	100-42-5	N.D.	0.9	0.78
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.78
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.78
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.78
10237	Toluene	108-88-3	N.D.	0.9	0.78
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.78
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.78

Sample Description: PLA-S-Road-SB11-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940245
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:55

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-114 SDG#: NWP17-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/kg					
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.78
10237	Trichloroethene	79-01-6	N.D.	0.9	0.78
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.78
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.78
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.78
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.78
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.78
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.78
10237	o-Xylene	95-47-6	N.D.	0.9	0.78
GC/MS Semivolatiles SW-846 8270D ug/kg					
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	810	1
10726	Benzo(a)anthracene	56-55-3	5 J	4	1
10726	Benzo(a)pyrene	50-32-8	6 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	7 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	6 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	6 J	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	77	1
10726	Di-n-butylphthalate	84-74-2	N.D.	77	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	7 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	5 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	77	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	77	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-Road-SB11-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940245
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:55

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-114 SDG#: NWP17-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	350	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	77	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	77	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	4 J	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	77	1
10726	4-Nitroaniline	100-01-6	N.D.	77	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	77	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	5 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,580	5.20	1
06944	Antimony	7440-36-0	N.D.	0.378	1
06935	Arsenic	7440-38-2	10.9	0.733	1
06946	Barium	7440-39-3	28.3	0.0378	1
06947	Beryllium	7440-41-7	0.419 J	0.0768	1
06949	Cadmium	7440-43-9	0.288 J	0.0378	1
01650	Calcium	7440-70-2	3,540	4.34	1
06951	Chromium	7440-47-3	11.3	0.126	1
06952	Cobalt	7440-48-4	10.7	0.110	1
06953	Copper	7440-50-8	28.0	0.378	1

Sample Description: PLA-S-Road-SB11-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940245
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:55

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Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-114 SDG#: NWP17-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	20,500	3.83	1
06955	Lead	7439-92-1	22.3	0.573	1
01657	Magnesium	7439-95-4	2,620	1.91	1
06958	Manganese	7439-96-5	378	0.0951	1
06961	Nickel	7440-02-0	24.4	0.172	1
01662	Potassium	7440-09-7	1,240	14.9	1
06936	Selenium	7782-49-2	2.09 J	0.504	1
06966	Silver	7440-22-4	0.473 J	0.218	1
01667	Sodium	7440-23-5	29.5 J	19.1	1
06925	Thallium	7440-28-0	1.61 J	0.917	1
06971	Vanadium	7440-62-2	18.8	0.104	1
06972	Zinc	7440-66-6	119	0.298	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0267 J	0.0112	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	13.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 07:00	Stephanie A Selis	0.78
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:41	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:41	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 10:55	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	2	201517438061	06/22/2015 10:55	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 03:43	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:44	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:44	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:44	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:44	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:44	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:44	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 09:44	Suzanne M Will	1

Sample Description: PLA-S-Road-SB11-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940245
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:55

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-114 SDG#: NWP17-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	15:18	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	09:44	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:29	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: PLA-S-Road-SB11-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940246
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-118 SDG#: NWP17-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	75	17	0.98
10237	Benzene	71-43-2	N.D.	1	0.98
10237	Bromobenzene	108-86-1	N.D.	2	0.98
10237	Bromochloromethane	74-97-5	N.D.	2	0.98
10237	Bromodichloromethane	75-27-4	N.D.	2	0.98
10237	Bromoform	75-25-2	N.D.	2	0.98
10237	Bromomethane	74-83-9	N.D.	5	0.98
10237	2-Butanone	78-93-3	13	10	0.98
10237	n-Butylbenzene	104-51-8	N.D.	2	0.98
10237	sec-Butylbenzene	135-98-8	N.D.	2	0.98
10237	tert-Butylbenzene	98-06-6	N.D.	2	0.98
10237	Carbon Disulfide	75-15-0	N.D.	2	0.98
10237	Carbon Tetrachloride	56-23-5	N.D.	2	0.98
10237	Chlorobenzene	108-90-7	N.D.	2	0.98
10237	Chloroethane	75-00-3	N.D.	5	0.98
10237	Chloroform	67-66-3	N.D.	2	0.98
10237	Chloromethane	74-87-3	N.D.	5	0.98
10237	2-Chlorotoluene	95-49-8	N.D.	2	0.98
10237	4-Chlorotoluene	106-43-4	N.D.	2	0.98
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	5	0.98
10237	Dibromochloromethane	124-48-1	N.D.	2	0.98
10237	1,2-Dibromoethane	106-93-4	N.D.	2	0.98
10237	Dibromomethane	74-95-3	N.D.	2	0.98
10237	Dichlorodifluoromethane	75-71-8	N.D.	5	0.98
10237	1,1-Dichloroethane	75-34-3	N.D.	2	0.98
10237	1,2-Dichloroethane	107-06-2	N.D.	2	0.98
10237	1,1-Dichloroethene	75-35-4	N.D.	2	0.98
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	2	0.98
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	2	0.98
10237	1,2-Dichloropropane	78-87-5	N.D.	2	0.98
10237	1,3-Dichloropropane	142-28-9	N.D.	2	0.98
10237	2,2-Dichloropropane	594-20-7	N.D.	2	0.98
10237	1,1-Dichloropropene	563-58-6	N.D.	2	0.98
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	2	0.98
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	2	0.98
10237	Ethylbenzene	100-41-4	N.D.	2	0.98
10237	2-Hexanone	591-78-6	N.D.	7	0.98
10237	Isopropylbenzene	98-82-8	N.D.	2	0.98
10237	p-Isopropyltoluene	99-87-6	N.D.	2	0.98
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1	0.98
10237	4-Methyl-2-pentanone	108-10-1	N.D.	7	0.98
10237	Methylene Chloride	75-09-2	N.D.	5	0.98
10237	n-Propylbenzene	103-65-1	N.D.	2	0.98
10237	Styrene	100-42-5	N.D.	2	0.98
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	2	0.98
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2	0.98
10237	Tetrachloroethene	127-18-4	N.D.	2	0.98
10237	Toluene	108-88-3	N.D.	2	0.98
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	2	0.98
10237	1,1,1-Trichloroethane	71-55-6	N.D.	2	0.98

Sample Description: PLA-S-Road-SB11-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940246
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-118 SDG#: NWP17-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	2	0.98
10237	Trichloroethene	79-01-6	N.D.	2	0.98
10237	Trichlorofluoromethane	75-69-4	N.D.	5	0.98
10237	1,2,3-Trichloropropane	96-18-4	N.D.	2	0.98
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	2	0.98
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	2	0.98
10237	Vinyl Chloride	75-01-4	N.D.	2	0.98
10237	m+p-Xylene	179601-23-1	N.D.	2	0.98
10237	o-Xylene	95-47-6	N.D.	2	0.98
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	41	5
10726	Acenaphthylene	208-96-8	N.D.	41	5
10726	Anthracene	120-12-7	N.D.	41	5
10726	Benizidine	92-87-5	N.D.	8,700	5
10726	Benzo(a)anthracene	56-55-3	110 J	41	5
10726	Benzo(a)pyrene	50-32-8	120 J	41	5
10726	Benzo(b)fluoranthene	205-99-2	200 J	41	5
10726	Benzo(g,h,i)perylene	191-24-2	190 J	41	5
10726	Benzo(k)fluoranthene	207-08-9	68 J	41	5
10726	Benzoic acid	65-85-0	N.D.	2,100	5
10726	Benzyl alcohol	100-51-6	N.D.	2,100	5
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	210	5
10726	Butylbenzylphthalate	85-68-7	N.D.	830	5
10726	Di-n-butylphthalate	84-74-2	N.D.	830	5
10726	Carbazole	86-74-8	N.D.	210	5
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	210	5
10726	4-Chloroaniline	106-47-8	N.D.	410	5
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	210	5
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	210	5
10726	2-Chloronaphthalene	91-58-7	N.D.	87	5
10726	2-Chlorophenol	95-57-8	N.D.	210	5
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	210	5
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	210	5
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	130 J	41	5
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	41	5
10726	Dibenzofuran	132-64-9	N.D.	210	5
10726	1,2-Dichlorobenzene	95-50-1	N.D.	210	5
10726	1,3-Dichlorobenzene	541-73-1	N.D.	210	5
10726	1,4-Dichlorobenzene	106-46-7	N.D.	210	5
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	1,200	5
10726	2,4-Dichlorophenol	120-83-2	N.D.	210	5
10726	Diethylphthalate	84-66-2	N.D.	830	5
10726	2,4-Dimethylphenol	105-67-9	N.D.	210	5
10726	Dimethylphthalate	131-11-3	N.D.	830	5
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	2,100	5

Sample Description: PLA-S-Road-SB11-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940246
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-118 SDG#: NWP17-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	3,700	5
10726	2,4-Dinitrotoluene	121-14-2	N.D.	830	5
10726	2,6-Dinitrotoluene	606-20-2	N.D.	210	5
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	830	5
10726	Fluoranthene	206-44-0	250	41	5
10726	Fluorene	86-73-7	52	41	5
10726	Hexachlorobenzene	118-74-1	N.D.	41	5
10726	Hexachlorobutadiene	87-68-3	N.D.	210	5
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	2,100	5
10726	Hexachloroethane	67-72-1	N.D.	410	5
10726	Indeno(1,2,3-cd)pyrene	193-39-5	140	41	5
10726	Isophorone	78-59-1	N.D.	210	5
10726	2-Methylnaphthalene	91-57-6	N.D.	41	5
10726	2-Methylphenol	95-48-7	N.D.	210	5
10726	4-Methylphenol	106-44-5	N.D.	210	5
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	61	41	5
10726	2-Nitroaniline	88-74-4	N.D.	210	5
10726	3-Nitroaniline	99-09-2	N.D.	830	5
10726	4-Nitroaniline	100-01-6	N.D.	830	5
10726	Nitrobenzene	98-95-3	N.D.	210	5
10726	2-Nitrophenol	88-75-5	N.D.	210	5
10726	4-Nitrophenol	100-02-7	N.D.	2,100	5
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	210	5
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	210	5
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	830	5
10726	Pentachlorophenol	87-86-5	N.D.	410	5
10726	Phenanthrene	85-01-8	180	41	5
10726	Phenol	108-95-2	N.D.	210	5
10726	Pyrene	129-00-0	150	41	5
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	210	5
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	210	5
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	210	5

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,400	11.3	1
06944	Antimony	7440-36-0	N.D.	0.823	1
06935	Arsenic	7440-38-2	8.06	1.60	1
06946	Barium	7440-39-3	149	0.0823	1
06947	Beryllium	7440-41-7	0.746	0.167	1

Sample Description: PLA-S-Road-SB11-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940246
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-118 SDG#: NWP17-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	5.87	0.0823	1
01650	Calcium	7440-70-2	7,030	9.45	1
06951	Chromium	7440-47-3	18.3	0.274	1
06952	Cobalt	7440-48-4	3.07	0.239	1
06953	Copper	7440-50-8	42.1	0.823	1
01654	Iron	7439-89-6	15,000	8.33	1
06955	Lead	7439-92-1	75.2	1.25	1
01657	Magnesium	7439-95-4	1,890	4.16	1
06958	Manganese	7439-96-5	282	0.207	1
06961	Nickel	7440-02-0	24.0	0.374	1
01662	Potassium	7440-09-7	1,430	32.4	1
06936	Selenium	7782-49-2	2.71 J	1.10	1
06966	Silver	7440-22-4	N.D.	0.474	1
01667	Sodium	7440-23-5	73.5 J	41.6	1
06925	Thallium	7440-28-0	N.D.	2.00	1
06971	Vanadium	7440-62-2	28.7	0.227	1
06972	Zinc	7440-66-6	1,140	0.648	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.130 J	0.0237	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	59.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 07:23	Stephanie A Selis	0.98
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:41	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:41	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 10:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	2	201517438061	06/22/2015 10:40	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15178SLA026	06/29/2015 10:52	Linda M Hartenstine	5
10813	BNA Soil Microwave APP IX	SW-846 3546	2	15178SLA026	06/28/2015 22:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1

Sample Description: PLA-S-Road-SB11-8-10 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940246
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

R-118 SDG#: NWP17-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015 15:20	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015 09:47	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 09:31	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015 19:06	Scott W Freisher	1

Sample Description: PLA-S-GP-SB05-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940247
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

G-050 SDG#: NWP17-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.79
10237	Benzene	71-43-2	N.D.	0.4	0.79
10237	Bromobenzene	108-86-1	N.D.	0.9	0.79
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.79
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.79
10237	Bromoform	75-25-2	N.D.	0.9	0.79
10237	Bromomethane	74-83-9	N.D.	2	0.79
10237	2-Butanone	78-93-3	N.D.	4	0.79
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.79
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.79
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.79
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.79
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.79
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.79
10237	Chloroethane	75-00-3	N.D.	2	0.79
10237	Chloroform	67-66-3	N.D.	0.9	0.79
10237	Chloromethane	74-87-3	N.D.	2	0.79
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.79
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.79
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.79
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.79
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.79
10237	Dibromomethane	74-95-3	N.D.	0.9	0.79
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.79
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.79
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.79
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.79
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.79
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.79
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.79
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.79
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.79
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.79
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.79
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.79
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.79
10237	2-Hexanone	591-78-6	N.D.	3	0.79
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.79
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.79
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.79
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.79
10237	Methylene Chloride	75-09-2	N.D.	2	0.79
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.79
10237	Styrene	100-42-5	N.D.	0.9	0.79
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.79
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.79
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.79
10237	Toluene	108-88-3	N.D.	0.9	0.79
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.79
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.79

Sample Description: PLA-S-GP-SB05-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

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Suite 103

Oakbrook IL 60523

G-050 SDG#: NWP17-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.79
10237	Trichloroethene	79-01-6	N.D.	0.9	0.79
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.79
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.79
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.79
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.79
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.79
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.79
10237	o-Xylene	95-47-6	N.D.	0.9	0.79
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	19	4	1
10726	Acenaphthylene	208-96-8	19	4	1
10726	Anthracene	120-12-7	44	4	1
10726	Benizidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	170	4	1
10726	Benzo(a)pyrene	50-32-8	230	4	1
10726	Benzo(b)fluoranthene	205-99-2	290	4	1
10726	Benzo(g,h,i)perylene	191-24-2	300	4	1
10726	Benzo(k)fluoranthene	207-08-9	100	4	1
10726	Benzoic acid	65-85-0	490	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	74	1
10726	Di-n-butylphthalate	84-74-2	N.D.	74	1
10726	Carbazole	86-74-8	26	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	220	4	1
10726	Dibenz(a,h)anthracene	53-70-3	53	4	1
10726	Dibenzofuran	132-64-9	37	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	74	1
10726	2,4-Dimethylphenol	105-67-9	74	19	1
10726	Dimethylphthalate	131-11-3	N.D.	74	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-S-GP-SB05-0-1 Grab Soil
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Suite 103

Oakbrook IL 60523

G-050 SDG#: NWP17-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	74	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	74	1
10726	Fluoranthene	206-44-0	230	4	1
10726	Fluorene	86-73-7	27	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	230	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	51	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	110	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	74	1
10726	4-Nitroaniline	100-01-6	N.D.	74	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	74	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	250	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	250	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	2,640	24.7	5
06944	Antimony	7440-36-0	N.D.	1.80	5
06935	Arsenic	7440-38-2	13.4	3.48	5
06946	Barium	7440-39-3	589	0.180	5
06947	Beryllium	7440-41-7	N.D.	0.365	5
06949	Cadmium	7440-43-9	10.1	0.180	5
01650	Calcium	7440-70-2	7,620	4.13	1
06951	Chromium	7440-47-3	524	0.599	5
06952	Cobalt	7440-48-4	39.8	0.522	5
06953	Copper	7440-50-8	464	1.80	5

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Oakbrook IL 60523

G-050 SDG#: NWP17-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	413,000	72.7	20
06955	Lead	7439-92-1	563	5.44	10
01657	Magnesium	7439-95-4	2,880	1.82	1
06958	Manganese	7439-96-5	12,400	1.81	20
06961	Nickel	7440-02-0	209	0.816	5
01662	Potassium	7440-09-7	365	70.7	5
06936	Selenium	7782-49-2	40.8	2.39	5
06966	Silver	7440-22-4	9.44	1.03	5
01667	Sodium	7440-23-5	378	18.2	1
06925	Thallium	7440-28-0	N.D.	4.35	5
06971	Vanadium	7440-62-2	25.7	0.495	5
06972	Zinc	7440-66-6	7,020	2.83	10
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	1.06	0.0272	2.5
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	10.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 07:45	Stephanie A Selis	0.79
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:41	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:41	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 12:15	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 11:23	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 09:50	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5

Sample Description: PLA-S-GP-SB05-0-1 Grab Soil
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Oakbrook IL 60523

G-050 SDG#: NWP17-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
01654	Iron	SW-846 6010B	1	151765708003	06/30/2015 06:41	Tara L Snyder	20
06955	Lead	SW-846 6010B	1	151765708003	06/30/2015 04:11	Elaine F Stoltzfus	10
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015 09:50	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/30/2015 06:41	Tara L Snyder	20
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 09:50	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 10:47	Suzanne M Will	5
06972	Zinc	SW-846 6010B	1	151765708003	06/30/2015 04:11	Elaine F Stoltzfus	10
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 10:07	Damary Valentin	2.5
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015 19:06	Scott W Freisher	1

Sample Description: PLA-S-GP-SB05-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940248
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

G-056 SDG#: NWP17-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	9 J	6	0.71
10237	Benzene	71-43-2	N.D.	0.4	0.71
10237	Bromobenzene	108-86-1	N.D.	0.8	0.71
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.71
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.71
10237	Bromoform	75-25-2	N.D.	0.8	0.71
10237	Bromomethane	74-83-9	N.D.	2	0.71
10237	2-Butanone	78-93-3	N.D.	3	0.71
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.71
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.71
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.71
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.71
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.71
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.71
10237	Chloroethane	75-00-3	N.D.	2	0.71
10237	Chloroform	67-66-3	N.D.	0.8	0.71
10237	Chloromethane	74-87-3	N.D.	2	0.71
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.71
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.71
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.71
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.71
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.71
10237	Dibromomethane	74-95-3	N.D.	0.8	0.71
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.71
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.71
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.71
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.71
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.71
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.71
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.71
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.71
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.71
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.71
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.71
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.71
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.71
10237	2-Hexanone	591-78-6	N.D.	2	0.71
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.71
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.71
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.71
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.71
10237	Methylene Chloride	75-09-2	N.D.	2	0.71
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.71
10237	Styrene	100-42-5	N.D.	0.8	0.71
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.71
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.71
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.71
10237	Toluene	108-88-3	N.D.	0.8	0.71
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.71
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.71

Sample Description: PLA-S-GP-SB05-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940248
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

G-056 SDG#: NWP17-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.71
10237	Trichloroethene	79-01-6	N.D.	0.8	0.71
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.71
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.71
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.71
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.71
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.71
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.71
10237	o-Xylene	95-47-6	N.D.	0.8	0.71
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benizidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	4 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	5 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	6 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	75	1
10726	Di-n-butylphthalate	84-74-2	N.D.	75	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	N.D.	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	75	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-GP-SB05-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940248
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

G-056 SDG#: NWP17-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	75	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	75	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	4 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	75	1
10726	4-Nitroaniline	100-01-6	N.D.	75	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	75	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	N.D.	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	3,680	5.11	1
06944	Antimony	7440-36-0	N.D.	0.371	1
06935	Arsenic	7440-38-2	1.06 J	0.720	1
06946	Barium	7440-39-3	11.4	0.0371	1
06947	Beryllium	7440-41-7	0.183 J	0.0754	1
06949	Cadmium	7440-43-9	N.D.	0.0371	1
01650	Calcium	7440-70-2	461	4.27	1
06951	Chromium	7440-47-3	6.41	0.124	1
06952	Cobalt	7440-48-4	2.38	0.108	1
06953	Copper	7440-50-8	6.08	0.371	1

Sample Description: PLA-S-GP-SB05-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940248
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:20

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1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

G-056 SDG#: NWP17-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	4,380	3.76	1
06955	Lead	7439-92-1	8.49	0.563	1
01657	Magnesium	7439-95-4	928	1.88	1
06958	Manganese	7439-96-5	81.9	0.0934	1
06961	Nickel	7440-02-0	8.34	0.169	1
01662	Potassium	7440-09-7	527	14.6	1
06936	Selenium	7782-49-2	0.520 J	0.495	1
06966	Silver	7440-22-4	N.D.	0.214	1
01667	Sodium	7440-23-5	21.3 J	18.8	1
06925	Thallium	7440-28-0	N.D.	0.900	1
06971	Vanadium	7440-62-2	7.67	0.102	1
06972	Zinc	7440-66-6	56.3	0.293	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0113	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	12.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 08:08	Stephanie A Selis	0.71
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:41	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:41	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 12:20	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 04:54	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 09:54	Suzanne M Will	1

Sample Description: PLA-S-GP-SB05-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940248
LL Group # 1571386
Account # 20448

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Suite 103

Oakbrook IL 60523

G-056 SDG#: NWP17-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	15:34	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	09:54	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:39	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: DUP-062215-001 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940249
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

DP-01 SDG#: NWP17-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.96
10237	Benzene	71-43-2	N.D.	0.5	0.96
10237	Bromobenzene	108-86-1	N.D.	1	0.96
10237	Bromochloromethane	74-97-5	N.D.	1	0.96
10237	Bromodichloromethane	75-27-4	N.D.	1	0.96
10237	Bromoform	75-25-2	N.D.	1	0.96
10237	Bromomethane	74-83-9	N.D.	2	0.96
10237	2-Butanone	78-93-3	N.D.	4	0.96
10237	n-Butylbenzene	104-51-8	N.D.	1	0.96
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.96
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.96
10237	Carbon Disulfide	75-15-0	N.D.	1	0.96
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.96
10237	Chlorobenzene	108-90-7	N.D.	1	0.96
10237	Chloroethane	75-00-3	N.D.	2	0.96
10237	Chloroform	67-66-3	N.D.	1	0.96
10237	Chloromethane	74-87-3	N.D.	2	0.96
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.96
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.96
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.96
10237	Dibromochloromethane	124-48-1	N.D.	1	0.96
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.96
10237	Dibromomethane	74-95-3	N.D.	1	0.96
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.96
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.96
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.96
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.96
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.96
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.96
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.96
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.96
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.96
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.96
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.96
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.96
10237	Ethylbenzene	100-41-4	N.D.	1	0.96
10237	2-Hexanone	591-78-6	N.D.	3	0.96
10237	Isopropylbenzene	98-82-8	N.D.	1	0.96
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.96
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.96
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.96
10237	Methylene Chloride	75-09-2	N.D.	2	0.96
10237	n-Propylbenzene	103-65-1	N.D.	1	0.96
10237	Styrene	100-42-5	N.D.	1	0.96
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.96
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.96
10237	Tetrachloroethene	127-18-4	N.D.	1	0.96
10237	Toluene	108-88-3	N.D.	1	0.96
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.96
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.96

Sample Description: DUP-062215-001 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940249
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 06/30/2015 14:36

DP-01 SDG#: NWP17-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.96
10237	Trichloroethene	79-01-6	N.D.	1	0.96
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.96
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.96
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.96
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.96
10237	Vinyl Chloride	75-01-4	N.D.	1	0.96
10237	m+p-Xylene	179601-23-1	N.D.	1	0.96
10237	o-Xylene	95-47-6	N.D.	1	0.96
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benizidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	7 J	3	1
10726	Benzo(a)pyrene	50-32-8	8 J	3	1
10726	Benzo(b)fluoranthene	205-99-2	8 J	3	1
10726	Benzo(g,h,i)perylene	191-24-2	7 J	3	1
10726	Benzo(k)fluoranthene	207-08-9	9 J	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	69	1
10726	Di-n-butylphthalate	84-74-2	N.D.	69	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	8 J	3	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	69	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	69	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1

Sample Description: DUP-062215-001 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940249
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec

1420 Kensington Road

Submitted: 06/23/2015 09:20

Suite 103

Reported: 06/30/2015 14:36

Oakbrook IL 60523

DP-01 SDG#: NWP17-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	69	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	69	1
10726	Fluoranthene	206-44-0	12 J	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	5 J	3	1
10726	Isophorone	78-59-1	100	17	1
10726	2-Methylnaphthalene	91-57-6	N.D.	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	69	1
10726	4-Nitroaniline	100-01-6	N.D.	69	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	69	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	10 J	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	10 J	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Hexachlorobutadiene
Nitrobenzene
Isophorone

Sample Description: DUP-062215-001 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940249
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 06/30/2015 14:36

DP-01 SDG#: NWP17-08FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01643	Aluminum	7429-90-5	5,220	4.64	1
06944	Antimony	7440-36-0	N.D.	0.337	1
06935	Arsenic	7440-38-2	2.31	0.654	1
06946	Barium	7440-39-3	41.4	0.0337	1
06947	Beryllium	7440-41-7	0.685	0.0685	1
06949	Cadmium	7440-43-9	0.107 J	0.0337	1
01650	Calcium	7440-70-2	175,000	19.4	5
06951	Chromium	7440-47-3	7.94	0.112	1
06952	Cobalt	7440-48-4	1.73	0.0981	1
06953	Copper	7440-50-8	9.03	0.337	1
01654	Iron	7439-89-6	5,300	3.41	1
06955	Lead	7439-92-1	4.09	0.511	1
01657	Magnesium	7439-95-4	67,600	8.53	5
06958	Manganese	7439-96-5	611	0.0848	1
06961	Nickel	7440-02-0	5.83	0.153	1
01662	Potassium	7440-09-7	590	13.3	1
06936	Selenium	7782-49-2	N.D.	0.450	1
06966	Silver	7440-22-4	1.52	0.194	1
01667	Sodium	7440-23-5	283	17.1	1
06925	Thallium	7440-28-0	N.D.	0.817	1
06971	Vanadium	7440-62-2	9.18	0.0930	1
06972	Zinc	7440-66-6	20.5	0.266	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0102	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	3.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 08:31	Stephanie A Selis	0.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517538066	06/24/2015 01:53	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517538066	06/24/2015 01:48	Lois E Hiltz	n.a.

Sample Description: DUP-062215-001 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940249
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec

1420 Kensington Road

Submitted: 06/23/2015 09:20

Suite 103

Reported: 06/30/2015 14:36

Oakbrook IL 60523

DP-01 SDG#: NWP17-08FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLH026	06/26/2015 02:10	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLH026	06/25/2015 08:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/29/2015 15:40	Eric L Eby	5
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015 15:37	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/29/2015 15:40	Eric L Eby	5
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015 09:57	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 09:41	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015 19:06	Scott W Freisher	1

Sample Description: VP-S-AOC9-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940250
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP970 SDG#: NWP17-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.94
10237	Benzene	71-43-2	N.D.	0.5	0.94
10237	Bromobenzene	108-86-1	N.D.	1	0.94
10237	Bromochloromethane	74-97-5	N.D.	1	0.94
10237	Bromodichloromethane	75-27-4	N.D.	1	0.94
10237	Bromoform	75-25-2	N.D.	1	0.94
10237	Bromomethane	74-83-9	N.D.	2	0.94
10237	2-Butanone	78-93-3	N.D.	4	0.94
10237	n-Butylbenzene	104-51-8	N.D.	1	0.94
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.94
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.94
10237	Carbon Disulfide	75-15-0	N.D.	1	0.94
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.94
10237	Chlorobenzene	108-90-7	N.D.	1	0.94
10237	Chloroethane	75-00-3	N.D.	2	0.94
10237	Chloroform	67-66-3	N.D.	1	0.94
10237	Chloromethane	74-87-3	N.D.	2	0.94
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.94
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.94
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.94
10237	Dibromochloromethane	124-48-1	N.D.	1	0.94
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.94
10237	Dibromomethane	74-95-3	N.D.	1	0.94
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.94
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.94
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.94
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.94
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.94
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.94
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.94
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.94
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.94
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.94
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.94
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.94
10237	Ethylbenzene	100-41-4	N.D.	1	0.94
10237	2-Hexanone	591-78-6	N.D.	3	0.94
10237	Isopropylbenzene	98-82-8	N.D.	1	0.94
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.94
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.94
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.94
10237	Methylene Chloride	75-09-2	N.D.	2	0.94
10237	n-Propylbenzene	103-65-1	N.D.	1	0.94
10237	Styrene	100-42-5	N.D.	1	0.94
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.94
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.94
10237	Tetrachloroethene	127-18-4	22	1	0.94
10237	Toluene	108-88-3	N.D.	1	0.94
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.94
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.94

Sample Description: VP-S-AOC9-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940250
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP970 SDG#: NWP17-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.94
10237	Trichloroethene	79-01-6	N.D.	1	0.94
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.94
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.94
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.94
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.94
10237	Vinyl Chloride	75-01-4	N.D.	1	0.94
10237	m+p-Xylene	179601-23-1	N.D.	1	0.94
10237	o-Xylene	95-47-6	N.D.	1	0.94
<p>The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.</p>					
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	220	18	5
10726	Acenaphthylene	208-96-8	23	18	5
10726	Anthracene	120-12-7	630	18	5
10726	Benzidine	92-87-5	N.D.	3,800	5
10726	Benzo(a)anthracene	56-55-3	1,900	18	5
10726	Benzo(a)pyrene	50-32-8	1,900	18	5
10726	Benzo(b)fluoranthene	205-99-2	2,400	18	5
10726	Benzo(g,h,i)perylene	191-24-2	1,500	18	5
10726	Benzo(k)fluoranthene	207-08-9	970	18	5
10726	Benzoic acid	65-85-0	N.D.	910	5
10726	Benzyl alcohol	100-51-6	N.D.	910	5
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	91	5
10726	Butylbenzylphthalate	85-68-7	N.D.	370	5
10726	Di-n-butylphthalate	84-74-2	N.D.	370	5
10726	Carbazole	86-74-8	420	91	5
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	91	5
10726	4-Chloroaniline	106-47-8	N.D.	180	5
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	91	5
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	91	5
10726	2-Chloronaphthalene	91-58-7	N.D.	38	5
10726	2-Chlorophenol	95-57-8	N.D.	91	5
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	91	5
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	91	5
<p>Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.</p>					
10726	Chrysene	218-01-9	2,000	18	5
10726	Dibenz(a,h)anthracene	53-70-3	350	18	5
10726	Dibenzofuran	132-64-9	140	91	5
10726	1,2-Dichlorobenzene	95-50-1	N.D.	91	5
10726	1,3-Dichlorobenzene	541-73-1	N.D.	91	5
10726	1,4-Dichlorobenzene	106-46-7	N.D.	91	5
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	550	5

Sample Description: VP-S-AOC9-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940250
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP970 SDG#: NWP17-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dichlorophenol	120-83-2	N.D.	91	5
10726	Diethylphthalate	84-66-2	N.D.	370	5
10726	2,4-Dimethylphenol	105-67-9	N.D.	91	5
10726	Dimethylphthalate	131-11-3	N.D.	370	5
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	910	5
10726	2,4-Dinitrophenol	51-28-5	N.D.	1,600	5
10726	2,4-Dinitrotoluene	121-14-2	N.D.	370	5
10726	2,6-Dinitrotoluene	606-20-2	N.D.	91	5
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	370	5
10726	Fluoranthene	206-44-0	4,600	18	5
10726	Fluorene	86-73-7	200	18	5
10726	Hexachlorobenzene	118-74-1	N.D.	18	5
10726	Hexachlorobutadiene	87-68-3	N.D.	91	5
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	910	5
10726	Hexachloroethane	67-72-1	N.D.	180	5
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,300	18	5
10726	Isophorone	78-59-1	N.D.	91	5
10726	2-Methylnaphthalene	91-57-6	150	18	5
10726	2-Methylphenol	95-48-7	N.D.	91	5
10726	4-Methylphenol	106-44-5	N.D.	91	5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	120	18	5
10726	2-Nitroaniline	88-74-4	N.D.	91	5
10726	3-Nitroaniline	99-09-2	N.D.	370	5
10726	4-Nitroaniline	100-01-6	N.D.	370	5
10726	Nitrobenzene	98-95-3	N.D.	91	5
10726	2-Nitrophenol	88-75-5	N.D.	91	5
10726	4-Nitrophenol	100-02-7	N.D.	910	5
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	91	5
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	91	5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	370	5
10726	Pentachlorophenol	87-86-5	N.D.	180	5
10726	Phenanthrene	85-01-8	3,400	18	5
10726	Phenol	108-95-2	260	91	5
10726	Pyrene	129-00-0	3,800	18	5
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	91	5
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	91	5
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	91	5
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,220	4.88	1
06944	Antimony	7440-36-0	5.41	0.354	1
06935	Arsenic	7440-38-2	9.63	0.687	1
06946	Barium	7440-39-3	91.4	0.0354	1
06947	Beryllium	7440-41-7	0.573	0.0719	1

Sample Description: VP-S-AOC9-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940250
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP970 SDG#: NWP17-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
06949	Cadmium	7440-43-9	0.713	0.0354	1
01650	Calcium	7440-70-2	9,940	4.07	1
06951	Chromium	7440-47-3	20.2	0.118	1
06952	Cobalt	7440-48-4	7.91	0.103	1
06953	Copper	7440-50-8	66.2	0.354	1
01654	Iron	7439-89-6	31,200	17.9	5
06955	Lead	7439-92-1	99.5	0.537	1
01657	Magnesium	7439-95-4	4,250	1.79	1
06958	Manganese	7439-96-5	468	0.0891	1
06961	Nickel	7440-02-0	22.1	0.161	1
01662	Potassium	7440-09-7	999	14.0	1
06936	Selenium	7782-49-2	3.20	0.472	1
06966	Silver	7440-22-4	0.813	0.204	1
01667	Sodium	7440-23-5	71.8 J	17.9	1
06925	Thallium	7440-28-0	1.21 J	0.859	1
06971	Vanadium	7440-62-2	21.9	0.0977	1
06972	Zinc	7440-66-6	166	0.279	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.141	0.0107	1
Wet Chemistry			%	%	
SM 2540 G-1997					
00111	Moisture	n.a.	8.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 08:53	Stephanie A Selis	0.94
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:41	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 10:10	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 05:17	William H Saadeh	5
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:01	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:01	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:01	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:01	Suzanne M Will	1

Sample Description: VP-S-AOC9-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940250
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:10

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP970 SDG#: NWP17-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/29/2015	15:45	Eric L Eby	5
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	15:42	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	10:01	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:43	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: VP-S-AOC9-SB07-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940251
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP974 SDG#: NWP17-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	10 J	6	0.73
10237	Benzene	71-43-2	N.D.	0.4	0.73
10237	Bromobenzene	108-86-1	N.D.	0.9	0.73
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.73
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.73
10237	Bromoform	75-25-2	N.D.	0.9	0.73
10237	Bromomethane	74-83-9	N.D.	2	0.73
10237	2-Butanone	78-93-3	N.D.	3	0.73
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.73
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.73
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.73
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.73
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.73
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.73
10237	Chloroethane	75-00-3	N.D.	2	0.73
10237	Chloroform	67-66-3	N.D.	0.9	0.73
10237	Chloromethane	74-87-3	N.D.	2	0.73
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.73
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.73
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.73
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.73
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.73
10237	Dibromomethane	74-95-3	N.D.	0.9	0.73
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.73
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.73
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.73
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.73
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.73
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.73
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.73
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.73
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.73
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.73
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.73
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.73
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.73
10237	2-Hexanone	591-78-6	N.D.	3	0.73
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.73
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.73
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.73
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.73
10237	Methylene Chloride	75-09-2	N.D.	2	0.73
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.73
10237	Styrene	100-42-5	N.D.	0.9	0.73
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.73
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.73
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.73
10237	Toluene	108-88-3	N.D.	0.9	0.73
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.73
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.73

Sample Description: VP-S-AOC9-SB07-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940251
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP974 SDG#: NWP17-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.73
10237	Trichloroethene	79-01-6	N.D.	0.9	0.73
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.73
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.73
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.73
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.73
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.73
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.73
10237	o-Xylene	95-47-6	N.D.	0.9	0.73
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	12 J	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	6 J	4	1
10726	Benzidine	92-87-5	N.D.	830	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	7 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	5 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	7 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	5 J	4	1
10726	Benzoic acid	65-85-0	N.D.	200	1
10726	Benzyl alcohol	100-51-6	N.D.	200	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	20	1
10726	Butylbenzylphthalate	85-68-7	N.D.	79	1
10726	Di-n-butylphthalate	84-74-2	N.D.	79	1
10726	Carbazole	86-74-8	N.D.	20	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	20	1
10726	4-Chloroaniline	106-47-8	N.D.	39	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	20	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	20	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	20	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	20	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	20	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	6 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	6 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	20	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	20	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	20	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	20	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	20	1
10726	Diethylphthalate	84-66-2	N.D.	79	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	20	1
10726	Dimethylphthalate	131-11-3	N.D.	79	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	200	1

Sample Description: VP-S-AOC9-SB07-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940251
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP974 SDG#: NWP17-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	350	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	79	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	20	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	79	1
10726	Fluoranthene	206-44-0	28	4	1
10726	Fluorene	86-73-7	4	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	20	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	200	1
10726	Hexachloroethane	67-72-1	N.D.	39	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	5	4	1
10726	Isophorone	78-59-1	N.D.	20	1
10726	2-Methylnaphthalene	91-57-6	6	4	1
10726	2-Methylphenol	95-48-7	N.D.	20	1
10726	4-Methylphenol	106-44-5	N.D.	20	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	9	4	1
10726	2-Nitroaniline	88-74-4	N.D.	20	1
10726	3-Nitroaniline	99-09-2	N.D.	79	1
10726	4-Nitroaniline	100-01-6	N.D.	79	1
10726	Nitrobenzene	98-95-3	N.D.	20	1
10726	2-Nitrophenol	88-75-5	N.D.	20	1
10726	4-Nitrophenol	100-02-7	N.D.	200	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	20	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	20	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	79	1
10726	Pentachlorophenol	87-86-5	N.D.	39	1
10726	Phenanthrene	85-01-8	45	4	1
10726	Phenol	108-95-2	N.D.	20	1
10726	Pyrene	129-00-0	32	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	20	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	20	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	20	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,610	5.31	1
06944	Antimony	7440-36-0	N.D.	0.386	1
06935	Arsenic	7440-38-2	7.87	0.749	1
06946	Barium	7440-39-3	26.0	0.0386	1
06947	Beryllium	7440-41-7	0.412	0.0784	1
06949	Cadmium	7440-43-9	0.246	0.0386	1
01650	Calcium	7440-70-2	3,080	4.44	1
06951	Chromium	7440-47-3	11.1	0.129	1
06952	Cobalt	7440-48-4	8.73	0.112	1
06953	Copper	7440-50-8	21.9	0.386	1

Sample Description: VP-S-AOC9-SB07-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940251
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP974 SDG#: NWP17-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	15,700	3.91	1
06955	Lead	7439-92-1	16.6	0.585	1
01657	Magnesium	7439-95-4	2,800	1.95	1
06958	Manganese	7439-96-5	226	0.0971	1
06961	Nickel	7440-02-0	18.7	0.176	1
01662	Potassium	7440-09-7	1,250	15.2	1
06936	Selenium	7782-49-2	1.22 J	0.515	1
06966	Silver	7440-22-4	0.367 J	0.222	1
01667	Sodium	7440-23-5	35.9 J	19.5	1
06925	Thallium	7440-28-0	1.05 J	0.936	1
06971	Vanadium	7440-62-2	18.1	0.107	1
06972	Zinc	7440-66-6	93.9	0.304	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0215 J	0.0112	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	15.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 09:16	Stephanie A Selis	0.73
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 10:15	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 05:40	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 10:04	Suzanne M Will	1

Sample Description: VP-S-AOC9-SB07-4-5 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940251
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 10:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

VP974 SDG#: NWP17-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	15:48	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	10:04	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:45	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: PLA-S-Road-SB12-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940252
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:45

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR120 SDG#: NWP17-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	0.97
10237	Benzene	71-43-2	N.D.	0.6	0.97
10237	Bromobenzene	108-86-1	N.D.	1	0.97
10237	Bromochloromethane	74-97-5	N.D.	1	0.97
10237	Bromodichloromethane	75-27-4	N.D.	1	0.97
10237	Bromoform	75-25-2	N.D.	1	0.97
10237	Bromomethane	74-83-9	N.D.	2	0.97
10237	2-Butanone	78-93-3	N.D.	4	0.97
10237	n-Butylbenzene	104-51-8	N.D.	1	0.97
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.97
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.97
10237	Carbon Disulfide	75-15-0	N.D.	1	0.97
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.97
10237	Chlorobenzene	108-90-7	N.D.	1	0.97
10237	Chloroethane	75-00-3	N.D.	2	0.97
10237	Chloroform	67-66-3	N.D.	1	0.97
10237	Chloromethane	74-87-3	N.D.	2	0.97
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.97
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.97
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.97
10237	Dibromochloromethane	124-48-1	N.D.	1	0.97
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.97
10237	Dibromomethane	74-95-3	N.D.	1	0.97
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.97
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.97
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.97
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.97
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.97
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.97
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.97
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.97
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.97
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.97
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.97
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.97
10237	Ethylbenzene	100-41-4	N.D.	1	0.97
10237	2-Hexanone	591-78-6	N.D.	3	0.97
10237	Isopropylbenzene	98-82-8	N.D.	1	0.97
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.97
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.6	0.97
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.97
10237	Methylene Chloride	75-09-2	N.D.	2	0.97
10237	n-Propylbenzene	103-65-1	N.D.	1	0.97
10237	Styrene	100-42-5	N.D.	1	0.97
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.97
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.97
10237	Tetrachloroethene	127-18-4	N.D.	1	0.97
10237	Toluene	108-88-3	N.D.	1	0.97
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.97
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.97

Sample Description: PLA-S-Road-SB12-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940252
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:45

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR120 SDG#: NWP17-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.97
10237	Trichloroethene	79-01-6	N.D.	1	0.97
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.97
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.97
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.97
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.97
10237	Vinyl Chloride	75-01-4	N.D.	1	0.97
10237	m+p-Xylene	179601-23-1	N.D.	1	0.97
10237	o-Xylene	95-47-6	N.D.	1	0.97
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	5 J	4	1
10726	Benzo(a)pyrene	50-32-8	9 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	10 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	12 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	4 J	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	76	1
10726	Di-n-butylphthalate	84-74-2	N.D.	76	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	6 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	76	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	76	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-Road-SB12-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940252
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:45

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR120 SDG#: NWP17-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	76	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	76	1
10726	Fluoranthene	206-44-0	6	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	7	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	76	1
10726	4-Nitroaniline	100-01-6	N.D.	76	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	76	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	5	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,400	5.01	1
06944	Antimony	7440-36-0	0.497	0.364	1
06935	Arsenic	7440-38-2	9.60	0.706	1
06946	Barium	7440-39-3	20.5	0.0364	1
06947	Beryllium	7440-41-7	0.420	0.0739	1
06949	Cadmium	7440-43-9	0.155	0.0364	1
01650	Calcium	7440-70-2	663	4.18	1
06951	Chromium	7440-47-3	10.4	0.121	1
06952	Cobalt	7440-48-4	9.10	0.106	1
06953	Copper	7440-50-8	29.6	0.364	1

Sample Description: PLA-S-Road-SB12-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940252
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:45
Submitted: 06/23/2015 09:20
Reported: 06/30/2015 14:36

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

PR120 SDG#: NWP17-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	18,500	3.68	1
06955	Lead	7439-92-1	20.3	0.551	1
01657	Magnesium	7439-95-4	2,010	1.84	1
06958	Manganese	7439-96-5	198	0.0915	1
06961	Nickel	7440-02-0	18.1	0.165	1
01662	Potassium	7440-09-7	1,100	14.3	1
06936	Selenium	7782-49-2	1.85 J	0.485	1
06966	Silver	7440-22-4	0.382 J	0.210	1
01667	Sodium	7440-23-5	27.0 J	18.4	1
06925	Thallium	7440-28-0	1.10 J	0.882	1
06971	Vanadium	7440-62-2	17.4	0.100	1
06972	Zinc	7440-66-6	92.1	0.287	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0317 J	0.0107	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	12.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 09:38	Stephanie A Selis	0.97
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 12:45	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 06:04	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 10:07	Suzanne M Will	1

Sample Description: PLA-S-Road-SB12-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940252
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:45

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PR120 SDG#: NWP17-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	15:50	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	10:07	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:47	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: PLA-S-Road-SB12-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940253
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR127 SDG#: NWP17-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	8	1.01
10237	Benzene	71-43-2	N.D.	0.6	1.01
10237	Bromobenzene	108-86-1	N.D.	1	1.01
10237	Bromochloromethane	74-97-5	N.D.	1	1.01
10237	Bromodichloromethane	75-27-4	N.D.	1	1.01
10237	Bromoform	75-25-2	N.D.	1	1.01
10237	Bromomethane	74-83-9	N.D.	2	1.01
10237	2-Butanone	78-93-3	N.D.	4	1.01
10237	n-Butylbenzene	104-51-8	N.D.	1	1.01
10237	sec-Butylbenzene	135-98-8	N.D.	1	1.01
10237	tert-Butylbenzene	98-06-6	N.D.	1	1.01
10237	Carbon Disulfide	75-15-0	N.D.	1	1.01
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1.01
10237	Chlorobenzene	108-90-7	N.D.	1	1.01
10237	Chloroethane	75-00-3	N.D.	2	1.01
10237	Chloroform	67-66-3	N.D.	1	1.01
10237	Chloromethane	74-87-3	N.D.	2	1.01
10237	2-Chlorotoluene	95-49-8	N.D.	1	1.01
10237	4-Chlorotoluene	106-43-4	N.D.	1	1.01
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1.01
10237	Dibromochloromethane	124-48-1	N.D.	1	1.01
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1.01
10237	Dibromomethane	74-95-3	N.D.	1	1.01
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1.01
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1.01
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1.01
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1.01
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1.01
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1.01
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1.01
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1.01
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1.01
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1.01
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1.01
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1.01
10237	Ethylbenzene	100-41-4	N.D.	1	1.01
10237	2-Hexanone	591-78-6	N.D.	3	1.01
10237	Isopropylbenzene	98-82-8	N.D.	1	1.01
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1.01
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.6	1.01
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	1.01
10237	Methylene Chloride	75-09-2	N.D.	2	1.01
10237	n-Propylbenzene	103-65-1	N.D.	1	1.01
10237	Styrene	100-42-5	N.D.	1	1.01
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1.01
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1.01
10237	Tetrachloroethene	127-18-4	N.D.	1	1.01
10237	Toluene	108-88-3	N.D.	1	1.01
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1.01
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1.01

Sample Description: PLA-S-Road-SB12-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940253
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR127 SDG#: NWP17-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1.01
10237	Trichloroethene	79-01-6	N.D.	1	1.01
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1.01
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1.01
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1.01
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1.01
10237	Vinyl Chloride	75-01-4	N.D.	1	1.01
10237	m+p-Xylene	179601-23-1	N.D.	1	1.01
10237	o-Xylene	95-47-6	N.D.	1	1.01
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	770	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	4 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	9 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	73	1
10726	Di-n-butylphthalate	84-74-2	N.D.	73	1
10726	Carbazole	86-74-8	N.D.	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	7 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	73	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	73	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-S-Road-SB12-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940253
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR127 SDG#: NWP17-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	73	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	73	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	18	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	73	1
10726	4-Nitroaniline	100-01-6	N.D.	73	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	73	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	15 J	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	N.D.	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	3,770	4.90	1
06944	Antimony	7440-36-0	0.563 J	0.356	1
06935	Arsenic	7440-38-2	8.77	0.691	1
06946	Barium	7440-39-3	20.8	0.0356	1
06947	Beryllium	7440-41-7	0.292 J	0.0723	1
06949	Cadmium	7440-43-9	0.233 J	0.0356	1
01650	Calcium	7440-70-2	543	4.09	1
06951	Chromium	7440-47-3	6.93	0.119	1
06952	Cobalt	7440-48-4	11.0	0.104	1
06953	Copper	7440-50-8	19.6	0.356	1

Sample Description: PLA-S-Road-SB12-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940253
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR127 SDG#: NWP17-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	11,700	3.61	1
06955	Lead	7439-92-1	14.4	0.540	1
01657	Magnesium	7439-95-4	1,250	1.80	1
06958	Manganese	7439-96-5	363	0.0896	1
06961	Nickel	7440-02-0	15.7	0.162	1
01662	Potassium	7440-09-7	852	14.0	1
06936	Selenium	7782-49-2	0.954 J	0.475	1
06966	Silver	7440-22-4	0.282 J	0.205	1
01667	Sodium	7440-23-5	22.4 J	18.0	1
06925	Thallium	7440-28-0	0.949 J	0.864	1
06971	Vanadium	7440-62-2	11.8	0.0983	1
06972	Zinc	7440-66-6	100	0.281	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0182 J	0.0106	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	9.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151772AA	06/27/2015 10:01	Stephanie A Selis	1.01
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 12:50	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 06:27	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/29/2015 15:53	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 10:10	Suzanne M Will	1

Sample Description: PLA-S-Road-SB12-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940253
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 12:50

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PR127 SDG#: NWP17-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	15:53	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	10:10	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:49	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: PLA-S-GP-SB04-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940254
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PG040 SDG#: NWP17-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.9
10237	Benzene	71-43-2	N.D.	0.5	0.9
10237	Bromobenzene	108-86-1	N.D.	1	0.9
10237	Bromochloromethane	74-97-5	N.D.	1	0.9
10237	Bromodichloromethane	75-27-4	N.D.	1	0.9
10237	Bromoform	75-25-2	N.D.	1	0.9
10237	Bromomethane	74-83-9	N.D.	2	0.9
10237	2-Butanone	78-93-3	N.D.	4	0.9
10237	n-Butylbenzene	104-51-8	N.D.	1	0.9
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.9
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.9
10237	Carbon Disulfide	75-15-0	N.D.	1	0.9
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.9
10237	Chlorobenzene	108-90-7	N.D.	1	0.9
10237	Chloroethane	75-00-3	N.D.	2	0.9
10237	Chloroform	67-66-3	N.D.	1	0.9
10237	Chloromethane	74-87-3	N.D.	2	0.9
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.9
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.9
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.9
10237	Dibromochloromethane	124-48-1	N.D.	1	0.9
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.9
10237	Dibromomethane	74-95-3	N.D.	1	0.9
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.9
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.9
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.9
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.9
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.9
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.9
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.9
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.9
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.9
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.9
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.9
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.9
10237	Ethylbenzene	100-41-4	N.D.	1	0.9
10237	2-Hexanone	591-78-6	N.D.	3	0.9
10237	Isopropylbenzene	98-82-8	N.D.	1	0.9
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.9
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.9
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.9
10237	Methylene Chloride	75-09-2	N.D.	2	0.9
10237	n-Propylbenzene	103-65-1	N.D.	1	0.9
10237	Styrene	100-42-5	N.D.	1	0.9
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.9
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.9
10237	Tetrachloroethene	127-18-4	N.D.	1	0.9
10237	Toluene	108-88-3	N.D.	1	0.9
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.9
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.9

Sample Description: PLA-S-GP-SB04-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940254
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PG040 SDG#: NWP17-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.9
10237	Trichloroethene	79-01-6	N.D.	1	0.9
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.9
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.9
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.9
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.9
10237	Vinyl Chloride	75-01-4	N.D.	1	0.9
10237	m+p-Xylene	179601-23-1	N.D.	1	0.9
10237	o-Xylene	95-47-6	N.D.	1	0.9

The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	7	J	1
10726	Anthracene	120-12-7	17	J	1
10726	Benzidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	32		1
10726	Benzo(a)pyrene	50-32-8	33		1
10726	Benzo(b)fluoranthene	205-99-2	49		1
10726	Benzo(g,h,i)perylene	191-24-2	40		1
10726	Benzo(k)fluoranthene	207-08-9	17	J	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	74	1
10726	Di-n-butylphthalate	84-74-2	110	J	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	50		1
10726	Dibenz(a,h)anthracene	53-70-3	5	J	1
10726	Dibenzofuran	132-64-9	28	J	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1

Sample Description: PLA-S-GP-SB04-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940254
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PG040 SDG#: NWP17-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	74	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	74	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	74	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	74	1
10726	Fluoranthene	206-44-0	50	4	1
10726	Fluorene	86-73-7	6	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	33	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	83	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	60	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	74	1
10726	4-Nitroaniline	100-01-6	N.D.	74	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	74	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	97	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	61	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,110	4.96	1
06944	Antimony	7440-36-0	8.19	0.361	1
06935	Arsenic	7440-38-2	12.1	0.700	1
06946	Barium	7440-39-3	397	0.0361	1
06947	Beryllium	7440-41-7	0.535	0.0733	1

Sample Description: PLA-S-GP-SB04-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940254
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:15

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PG040 SDG#: NWP17-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	5.72	0.0361	1
01650	Calcium	7440-70-2	8,540	4.14	1
06951	Chromium	7440-47-3	39.8	0.120	1
06952	Cobalt	7440-48-4	7.55	0.105	1
06953	Copper	7440-50-8	197	0.361	1
01654	Iron	7439-89-6	58,300	18.3	5
06955	Lead	7439-92-1	1,020	0.547	1
01657	Magnesium	7439-95-4	4,960	1.83	1
06958	Manganese	7439-96-5	767	0.0907	1
06961	Nickel	7440-02-0	25.4	0.164	1
01662	Potassium	7440-09-7	703	14.2	1
06936	Selenium	7782-49-2	5.57	0.481	1
06966	Silver	7440-22-4	1.99	0.208	1
01667	Sodium	7440-23-5	59.1 J	18.3	1
06925	Thallium	7440-28-0	0.927 J	0.875	1
06971	Vanadium	7440-62-2	22.0	0.0995	1
06972	Zinc	7440-66-6	3,200	1.42	5
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.109	0.0108	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	11.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 16:40	Kathrine K Muramatsu	0.9
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 15:15	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 06:50	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1

Sample Description: PLA-S-GP-SB04-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940254
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

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Suite 103

Oakbrook IL 60523

PG040 SDG#: NWP17-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/29/2015 16:03	Eric L Eby	5
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015 16:00	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 10:13	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/29/2015 16:03	Eric L Eby	5
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 09:51	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015 19:06	Scott W Freisher	1

Sample Description: PLA-S-GP-SB04-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940255
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:30

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PG047 SDG#: NWP17-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	13 J	6	0.73
10237	Benzene	71-43-2	N.D.	0.4	0.73
10237	Bromobenzene	108-86-1	N.D.	0.8	0.73
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.73
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.73
10237	Bromoform	75-25-2	N.D.	0.8	0.73
10237	Bromomethane	74-83-9	N.D.	2	0.73
10237	2-Butanone	78-93-3	N.D.	3	0.73
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.73
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.73
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.73
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.73
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.73
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.73
10237	Chloroethane	75-00-3	N.D.	2	0.73
10237	Chloroform	67-66-3	N.D.	0.8	0.73
10237	Chloromethane	74-87-3	N.D.	2	0.73
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.73
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.73
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.73
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.73
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.73
10237	Dibromomethane	74-95-3	N.D.	0.8	0.73
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.73
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.73
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.73
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.73
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.73
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.73
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.73
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.73
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.73
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.73
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.73
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.73
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.73
10237	2-Hexanone	591-78-6	N.D.	2	0.73
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.73
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.73
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.73
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.73
10237	Methylene Chloride	75-09-2	N.D.	2	0.73
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.73
10237	Styrene	100-42-5	N.D.	0.8	0.73
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.73
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.73
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.73
10237	Toluene	108-88-3	N.D.	0.8	0.73
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.73
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.73

Sample Description: PLA-S-GP-SB04-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940255
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:30

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PG047 SDG#: NWP17-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.73
10237	Trichloroethene	79-01-6	N.D.	0.8	0.73
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.73
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.73
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.73
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.73
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.73
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.73
10237	o-Xylene	95-47-6	N.D.	0.8	0.73
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	4	1
10726	Benzo(g,h,i)perylene	191-24-2	7 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	75	1
10726	Di-n-butylphthalate	84-74-2	N.D.	75	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	N.D.	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	75	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-GP-SB04-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940255
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:30

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1420 Kensington Road

Submitted: 06/23/2015 09:20

Suite 103

Reported: 06/30/2015 14:36

Oakbrook IL 60523

PG047 SDG#: NWP17-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	75	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	75	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	75	1
10726	4-Nitroaniline	100-01-6	N.D.	75	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	75	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	5 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	4,740	5.00	1
06944	Antimony	7440-36-0	N.D.	0.363	1
06935	Arsenic	7440-38-2	1.35 J	0.704	1
06946	Barium	7440-39-3	14.8	0.0363	1
06947	Beryllium	7440-41-7	0.329 J	0.0737	1
06949	Cadmium	7440-43-9	N.D.	0.0363	1
01650	Calcium	7440-70-2	582	4.17	1
06951	Chromium	7440-47-3	7.80	0.121	1
06952	Cobalt	7440-48-4	1.67	0.106	1
06953	Copper	7440-50-8	9.92	0.363	1

Sample Description: PLA-S-GP-SB04-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940255
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:30

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Submitted: 06/23/2015 09:20

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Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PG047 SDG#: NWP17-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	4,960	3.68	1
06955	Lead	7439-92-1	10.2	0.550	1
01657	Magnesium	7439-95-4	861	1.84	1
06958	Manganese	7439-96-5	30.7	0.0913	1
06961	Nickel	7440-02-0	6.13	0.165	1
01662	Potassium	7440-09-7	562	14.3	1
06936	Selenium	7782-49-2	0.878 J	0.484	1
06966	Silver	7440-22-4	N.D.	0.209	1
01667	Sodium	7440-23-5	N.D.	18.4	1
06925	Thallium	7440-28-0	N.D.	0.880	1
06971	Vanadium	7440-62-2	15.3	0.100	1
06972	Zinc	7440-66-6	47.2	0.286	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0106	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	10.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 17:03	Kathrine K Muramatsu	0.73
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 15:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 07:14	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:22	Suzanne M Will	1

Sample Description: PLA-S-GP-SB04-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940255
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 15:30

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1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PG047 SDG#: NWP17-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	16:08	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	10:22	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	09:53	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: PLA-S-FS-SB09-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940256
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:20

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Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF090 SDG#: NWP17-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.84
10237	Benzene	71-43-2	N.D.	0.5	0.84
10237	Bromobenzene	108-86-1	N.D.	0.9	0.84
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.84
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.84
10237	Bromoform	75-25-2	N.D.	0.9	0.84
10237	Bromomethane	74-83-9	N.D.	2	0.84
10237	2-Butanone	78-93-3	N.D.	4	0.84
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.84
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.84
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.84
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.84
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.84
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.84
10237	Chloroethane	75-00-3	N.D.	2	0.84
10237	Chloroform	67-66-3	N.D.	0.9	0.84
10237	Chloromethane	74-87-3	N.D.	2	0.84
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.84
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.84
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.84
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.84
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.84
10237	Dibromomethane	74-95-3	N.D.	0.9	0.84
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.84
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.84
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.84
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.84
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.84
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.84
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.84
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.84
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.84
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.84
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.84
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.84
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.84
10237	2-Hexanone	591-78-6	N.D.	3	0.84
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.84
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.84
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.84
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.84
10237	Methylene Chloride	75-09-2	N.D.	2	0.84
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.84
10237	Styrene	100-42-5	N.D.	0.9	0.84
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.84
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.84
10237	Tetrachloroethene	127-18-4	4 J	0.9	0.84
10237	Toluene	108-88-3	N.D.	0.9	0.84
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.84
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.84

Sample Description: PLA-S-FS-SB09-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940256
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF090 SDG#: NWP17-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.84
10237	Trichloroethene	79-01-6	N.D.	0.9	0.84
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.84
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.84
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.84
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.84
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.84
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.84
10237	o-Xylene	95-47-6	N.D.	0.9	0.84

The recovery for the sample internal standard is outside the QC acceptance limits. The remaining sample vial leaked during the re-analysis, therefore, the matrix effects observed in the initial analysis could not be confirmed. The data is reported from the initial trial.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	95	18	5
10726	Acenaphthylene	208-96-8	330	18	5
10726	Anthracene	120-12-7	310	18	5
10726	Benzidine	92-87-5	N.D.	3,800	5
10726	Benzo(a)anthracene	56-55-3	1,100	18	5
10726	Benzo(a)pyrene	50-32-8	1,600	18	5
10726	Benzo(b)fluoranthene	205-99-2	2,000	18	5
10726	Benzo(g,h,i)perylene	191-24-2	1,100	18	5
10726	Benzo(k)fluoranthene	207-08-9	1,000	18	5
10726	Benzoic acid	65-85-0	N.D.	900	5
10726	Benzyl alcohol	100-51-6	N.D.	900	5
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	90	5
10726	Butylbenzylphthalate	85-68-7	N.D.	360	5
10726	Di-n-butylphthalate	84-74-2	N.D.	360	5
10726	Carbazole	86-74-8	250	90	5
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	90	5
10726	4-Chloroaniline	106-47-8	N.D.	180	5
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	90	5
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	90	5
10726	2-Chloronaphthalene	91-58-7	N.D.	38	5
10726	2-Chlorophenol	95-57-8	N.D.	90	5
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	90	5
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	90	5
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	1,900	18	5
10726	Dibenz(a,h)anthracene	53-70-3	270	18	5
10726	Dibenzofuran	132-64-9	150	90	5
10726	1,2-Dichlorobenzene	95-50-1	N.D.	90	5
10726	1,3-Dichlorobenzene	541-73-1	N.D.	90	5
10726	1,4-Dichlorobenzene	106-46-7	N.D.	90	5
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	540	5

Sample Description: PLA-S-FS-SB09-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940256
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:20

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Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF090 SDG#: NWP17-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dichlorophenol	120-83-2	N.D.	90	5
10726	Diethylphthalate	84-66-2	N.D.	360	5
10726	2,4-Dimethylphenol	105-67-9	N.D.	90	5
10726	Dimethylphthalate	131-11-3	N.D.	360	5
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	900	5
10726	2,4-Dinitrophenol	51-28-5	N.D.	1,600	5
10726	2,4-Dinitrotoluene	121-14-2	N.D.	360	5
10726	2,6-Dinitrotoluene	606-20-2	N.D.	90	5
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	360	5
10726	Fluoranthene	206-44-0	3,700	18	5
10726	Fluorene	86-73-7	210	18	5
10726	Hexachlorobenzene	118-74-1	N.D.	18	5
10726	Hexachlorobutadiene	87-68-3	N.D.	90	5
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	900	5
10726	Hexachloroethane	67-72-1	N.D.	180	5
10726	Indeno(1,2,3-cd)pyrene	193-39-5	960	18	5
10726	Isophorone	78-59-1	N.D.	90	5
10726	2-Methylnaphthalene	91-57-6	210	18	5
10726	2-Methylphenol	95-48-7	N.D.	90	5
10726	4-Methylphenol	106-44-5	N.D.	90	5
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	140	18	5
10726	2-Nitroaniline	88-74-4	N.D.	90	5
10726	3-Nitroaniline	99-09-2	N.D.	360	5
10726	4-Nitroaniline	100-01-6	N.D.	360	5
10726	Nitrobenzene	98-95-3	N.D.	90	5
10726	2-Nitrophenol	88-75-5	N.D.	90	5
10726	4-Nitrophenol	100-02-7	N.D.	900	5
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	90	5
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	90	5
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	360	5
10726	Pentachlorophenol	87-86-5	N.D.	180	5
10726	Phenanthrene	85-01-8	3,700	18	5
10726	Phenol	108-95-2	N.D.	90	5
10726	Pyrene	129-00-0	3,700	18	5
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	90	5
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	90	5
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	90	5
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,870	4.85	1
06944	Antimony	7440-36-0	0.823 J	0.352	1
06935	Arsenic	7440-38-2	12.5	0.684	1
06946	Barium	7440-39-3	87.8	0.0352	1
06947	Beryllium	7440-41-7	0.755	0.0716	1

Sample Description: PLA-S-FS-SB09-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940256
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF090 SDG#: NWP17-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
06949	Cadmium	7440-43-9	1.13	0.0352	1
01650	Calcium	7440-70-2	26,800	4.05	1
06951	Chromium	7440-47-3	13.2	0.117	1
06952	Cobalt	7440-48-4	5.78	0.103	1
06953	Copper	7440-50-8	55.8	0.352	1
01654	Iron	7439-89-6	19,300	3.57	1
06955	Lead	7439-92-1	160	0.534	1
01657	Magnesium	7439-95-4	12,100	1.78	1
06958	Manganese	7439-96-5	377	0.0886	1
06961	Nickel	7440-02-0	15.5	0.160	1
01662	Potassium	7440-09-7	867	13.9	1
06936	Selenium	7782-49-2	2.35	0.470	1
06966	Silver	7440-22-4	0.627	0.203	1
01667	Sodium	7440-23-5	124	17.8	1
06925	Thallium	7440-28-0	N.D.	0.854	1
06971	Vanadium	7440-62-2	19.1	0.0972	1
06972	Zinc	7440-66-6	198	0.278	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.553	0.0106	1
Wet Chemistry			%	%	
SM 2540 G-1997					
00111	Moisture	n.a.	9.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151791AA	06/28/2015 13:58	Angela D Sneeringer	0.84
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 14:20	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 07:37	William H Saadeh	5
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1

Sample Description: PLA-S-FS-SB09-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940256
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:20

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF090 SDG#: NWP17-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015 16:11	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015 10:25	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 09:55	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015 19:06	Scott W Freisher	1

Sample Description: DUP-062215-002 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940257
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

DP-02 SDG#: NWP17-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.76
10237	Benzene	71-43-2	N.D.	0.4	0.76
10237	Bromobenzene	108-86-1	N.D.	0.9	0.76
10237	Bromochloromethane	74-97-5	N.D.	0.9	0.76
10237	Bromodichloromethane	75-27-4	N.D.	0.9	0.76
10237	Bromoform	75-25-2	N.D.	0.9	0.76
10237	Bromomethane	74-83-9	N.D.	2	0.76
10237	2-Butanone	78-93-3	N.D.	3	0.76
10237	n-Butylbenzene	104-51-8	N.D.	0.9	0.76
10237	sec-Butylbenzene	135-98-8	N.D.	0.9	0.76
10237	tert-Butylbenzene	98-06-6	N.D.	0.9	0.76
10237	Carbon Disulfide	75-15-0	N.D.	0.9	0.76
10237	Carbon Tetrachloride	56-23-5	N.D.	0.9	0.76
10237	Chlorobenzene	108-90-7	N.D.	0.9	0.76
10237	Chloroethane	75-00-3	N.D.	2	0.76
10237	Chloroform	67-66-3	N.D.	0.9	0.76
10237	Chloromethane	74-87-3	N.D.	2	0.76
10237	2-Chlorotoluene	95-49-8	N.D.	0.9	0.76
10237	4-Chlorotoluene	106-43-4	N.D.	0.9	0.76
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.76
10237	Dibromochloromethane	124-48-1	N.D.	0.9	0.76
10237	1,2-Dibromoethane	106-93-4	N.D.	0.9	0.76
10237	Dibromomethane	74-95-3	N.D.	0.9	0.76
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.76
10237	1,1-Dichloroethane	75-34-3	N.D.	0.9	0.76
10237	1,2-Dichloroethane	107-06-2	N.D.	0.9	0.76
10237	1,1-Dichloroethene	75-35-4	N.D.	0.9	0.76
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.9	0.76
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.9	0.76
10237	1,2-Dichloropropane	78-87-5	N.D.	0.9	0.76
10237	1,3-Dichloropropane	142-28-9	N.D.	0.9	0.76
10237	2,2-Dichloropropane	594-20-7	N.D.	0.9	0.76
10237	1,1-Dichloropropene	563-58-6	N.D.	0.9	0.76
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.9	0.76
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.9	0.76
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.76
10237	2-Hexanone	591-78-6	N.D.	3	0.76
10237	Isopropylbenzene	98-82-8	N.D.	0.9	0.76
10237	p-Isopropyltoluene	99-87-6	N.D.	0.9	0.76
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.76
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.76
10237	Methylene Chloride	75-09-2	N.D.	2	0.76
10237	n-Propylbenzene	103-65-1	N.D.	0.9	0.76
10237	Styrene	100-42-5	N.D.	0.9	0.76
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.9	0.76
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.9	0.76
10237	Tetrachloroethene	127-18-4	N.D.	0.9	0.76
10237	Toluene	108-88-3	N.D.	0.9	0.76
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.9	0.76
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.9	0.76

Sample Description: DUP-062215-002 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940257
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

DP-02 SDG#: NWP17-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.9	0.76
10237	Trichloroethene	79-01-6	N.D.	0.9	0.76
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.76
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.9	0.76
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.9	0.76
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.9	0.76
10237	Vinyl Chloride	75-01-4	N.D.	0.9	0.76
10237	m+p-Xylene	179601-23-1	N.D.	0.9	0.76
10237	o-Xylene	95-47-6	N.D.	0.9	0.76
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	19	5
10726	Acenaphthylene	208-96-8	25 J	19	5
10726	Anthracene	120-12-7	27 J	19	5
10726	Benzidine	92-87-5	N.D.	3,900	5
10726	Benzo(a)anthracene	56-55-3	49 J	19	5
10726	Benzo(a)pyrene	50-32-8	74 J	19	5
10726	Benzo(b)fluoranthene	205-99-2	78 J	19	5
10726	Benzo(g,h,i)perylene	191-24-2	72 J	19	5
10726	Benzo(k)fluoranthene	207-08-9	34 J	19	5
10726	Benzoic acid	65-85-0	N.D.	930	5
10726	Benzyl alcohol	100-51-6	N.D.	930	5
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	93	5
10726	Butylbenzylphthalate	85-68-7	N.D.	370	5
10726	Di-n-butylphthalate	84-74-2	N.D.	370	5
10726	Carbazole	86-74-8	N.D.	93	5
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	93	5
10726	4-Chloroaniline	106-47-8	N.D.	190	5
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	93	5
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	93	5
10726	2-Chloronaphthalene	91-58-7	N.D.	39	5
10726	2-Chlorophenol	95-57-8	N.D.	93	5
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	93	5
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	93	5
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	74 J	19	5
10726	Dibenz(a,h)anthracene	53-70-3	20 J	19	5
10726	Dibenzofuran	132-64-9	N.D.	93	5
10726	1,2-Dichlorobenzene	95-50-1	N.D.	93	5
10726	1,3-Dichlorobenzene	541-73-1	N.D.	93	5
10726	1,4-Dichlorobenzene	106-46-7	N.D.	93	5
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	560	5
10726	2,4-Dichlorophenol	120-83-2	N.D.	93	5
10726	Diethylphthalate	84-66-2	N.D.	370	5
10726	2,4-Dimethylphenol	105-67-9	N.D.	93	5
10726	Dimethylphthalate	131-11-3	N.D.	370	5
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	930	5

Sample Description: DUP-062215-002 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940257
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

DP-02 SDG#: NWP17-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	1,700	5
10726	2,4-Dinitrotoluene	121-14-2	N.D.	370	5
10726	2,6-Dinitrotoluene	606-20-2	N.D.	93	5
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	370	5
10726	Fluoranthene	206-44-0	85 J	19	5
10726	Fluorene	86-73-7	N.D.	19	5
10726	Hexachlorobenzene	118-74-1	N.D.	19	5
10726	Hexachlorobutadiene	87-68-3	N.D.	93	5
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	930	5
10726	Hexachloroethane	67-72-1	N.D.	190	5
10726	Indeno(1,2,3-cd)pyrene	193-39-5	58 J	19	5
10726	Isophorone	78-59-1	N.D.	93	5
10726	2-Methylnaphthalene	91-57-6	34 J	19	5
10726	2-Methylphenol	95-48-7	N.D.	93	5
10726	4-Methylphenol	106-44-5	N.D.	93	5
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	26 J	19	5
10726	2-Nitroaniline	88-74-4	N.D.	93	5
10726	3-Nitroaniline	99-09-2	N.D.	370	5
10726	4-Nitroaniline	100-01-6	N.D.	370	5
10726	Nitrobenzene	98-95-3	N.D.	93	5
10726	2-Nitrophenol	88-75-5	N.D.	93	5
10726	4-Nitrophenol	100-02-7	N.D.	930	5
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	93	5
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	93	5
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	370	5
10726	Pentachlorophenol	87-86-5	N.D.	190	5
10726	Phenanthrene	85-01-8	110	19	5
10726	Phenol	108-95-2	N.D.	93	5
10726	Pyrene	129-00-0	110	19	5
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	93	5
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	93	5
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	93	5
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	4,350	5.04	1
06944	Antimony	7440-36-0	0.610 J	0.366	1
06935	Arsenic	7440-38-2	5.93	0.710	1
06946	Barium	7440-39-3	69.3	0.0366	1
06947	Beryllium	7440-41-7	0.433 J	0.0744	1
06949	Cadmium	7440-43-9	1.07	0.0366	1
01650	Calcium	7440-70-2	49,900	4.21	1
06951	Chromium	7440-47-3	10.9	0.122	1
06952	Cobalt	7440-48-4	4.43	0.107	1
06953	Copper	7440-50-8	21.8	0.366	1

Sample Description: DUP-062215-002 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940257
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

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1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/23/2015 09:20

Reported: 06/30/2015 14:36

DP-02 SDG#: NWP17-16FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	17,400	3.71	1
06955	Lead	7439-92-1	73.6	0.555	1
01657	Magnesium	7439-95-4	23,600	1.85	1
06958	Manganese	7439-96-5	477	0.0921	1
06961	Nickel	7440-02-0	10.1	0.166	1
01662	Potassium	7440-09-7	662	14.4	1
06936	Selenium	7782-49-2	0.713 J	0.488	1
06966	Silver	7440-22-4	0.412 J	0.211	1
01667	Sodium	7440-23-5	104 J	18.5	1
06925	Thallium	7440-28-0	N.D.	0.888	1
06971	Vanadium	7440-62-2	12.1	0.101	1
06972	Zinc	7440-66-6	727	0.289	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0376 J	0.0111	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	10.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151791AA	06/28/2015 14:21	Angela D Sneeringer	0.76
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 00:00	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 08:01	William H Saadeh	5
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:29	Suzanne M Will	1

Sample Description: DUP-062215-002 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940257
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

DP-02 SDG#: NWP17-16FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015	16:14	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015	10:29	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015	10:01	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015	22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015	02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015	19:06	Scott W Freisher	1

Sample Description: TB-062215-CS Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7940258
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

TB22C SDG#: NWP17-17TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-062215-CS Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7940258
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

TB22C SDG#: NWP17-17TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	L151773AA	06/27/2015 06:19	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L151773AA	06/27/2015 06:19	Stephanie A Selis	1

Sample Description: TB-062215-S Trip Blank
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7940259
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

TB22S SDG#: NWP17-18TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	1
10237	Benzene	71-43-2	N.D.	0.5	1
10237	Bromobenzene	108-86-1	N.D.	1	1
10237	Bromochloromethane	74-97-5	N.D.	1	1
10237	Bromodichloromethane	75-27-4	N.D.	1	1
10237	Bromoform	75-25-2	N.D.	1	1
10237	Bromomethane	74-83-9	N.D.	2	1
10237	2-Butanone	78-93-3	N.D.	4	1
10237	n-Butylbenzene	104-51-8	N.D.	1	1
10237	sec-Butylbenzene	135-98-8	N.D.	1	1
10237	tert-Butylbenzene	98-06-6	N.D.	1	1
10237	Carbon Disulfide	75-15-0	N.D.	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1
10237	Chlorobenzene	108-90-7	N.D.	1	1
10237	Chloroethane	75-00-3	N.D.	2	1
10237	Chloroform	67-66-3	N.D.	1	1
10237	Chloromethane	74-87-3	N.D.	2	1
10237	2-Chlorotoluene	95-49-8	N.D.	1	1
10237	4-Chlorotoluene	106-43-4	N.D.	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10237	Dibromochloromethane	124-48-1	N.D.	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1
10237	Dibromomethane	74-95-3	N.D.	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10237	Ethylbenzene	100-41-4	N.D.	1	1
10237	2-Hexanone	591-78-6	N.D.	3	1
10237	Isopropylbenzene	98-82-8	N.D.	1	1
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10237	Methylene Chloride	75-09-2	N.D.	2	1
10237	n-Propylbenzene	103-65-1	N.D.	1	1
10237	Styrene	100-42-5	N.D.	1	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10237	Tetrachloroethene	127-18-4	N.D.	1	1
10237	Toluene	108-88-3	N.D.	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1

Sample Description: TB-062215-S Trip Blank
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7940259
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:40

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

TB22S SDG#: NWP17-18TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1
10237	Trichloroethene	79-01-6	N.D.	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10237	Vinyl Chloride	75-01-4	N.D.	1	1
10237	m+p-Xylene	179601-23-1	N.D.	1	1
10237	o-Xylene	95-47-6	N.D.	1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 14:25	Kathrine K Muramatsu	1
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:42	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 14:40	Client Supplied	1

Sample Description: PLA-S-FS-SB09-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940260
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF096 SDG#: NWP17-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	62	9	1.1
10237	Benzene	71-43-2	N.D.	0.7	1.1
10237	Bromobenzene	108-86-1	N.D.	1	1.1
10237	Bromochloromethane	74-97-5	N.D.	1	1.1
10237	Bromodichloromethane	75-27-4	N.D.	1	1.1
10237	Bromoform	75-25-2	N.D.	1	1.1
10237	Bromomethane	74-83-9	N.D.	3	1.1
10237	2-Butanone	78-93-3	11	5	1.1
10237	n-Butylbenzene	104-51-8	N.D.	1	1.1
10237	sec-Butylbenzene	135-98-8	N.D.	1	1.1
10237	tert-Butylbenzene	98-06-6	N.D.	1	1.1
10237	Carbon Disulfide	75-15-0	N.D.	1	1.1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1.1
10237	Chlorobenzene	108-90-7	N.D.	1	1.1
10237	Chloroethane	75-00-3	N.D.	3	1.1
10237	Chloroform	67-66-3	N.D.	1	1.1
10237	Chloromethane	74-87-3	N.D.	3	1.1
10237	2-Chlorotoluene	95-49-8	N.D.	1	1.1
10237	4-Chlorotoluene	106-43-4	N.D.	1	1.1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	3	1.1
10237	Dibromochloromethane	124-48-1	N.D.	1	1.1
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1.1
10237	Dibromomethane	74-95-3	N.D.	1	1.1
10237	Dichlorodifluoromethane	75-71-8	N.D.	3	1.1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1.1
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1.1
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1.1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1.1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1.1
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1.1
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1.1
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1.1
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1.1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1.1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1.1
10237	Ethylbenzene	100-41-4	N.D.	1	1.1
10237	2-Hexanone	591-78-6	N.D.	4	1.1
10237	Isopropylbenzene	98-82-8	N.D.	1	1.1
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1.1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.7	1.1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	4	1.1
10237	Methylene Chloride	75-09-2	N.D.	3	1.1
10237	n-Propylbenzene	103-65-1	N.D.	1	1.1
10237	Styrene	100-42-5	N.D.	1	1.1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1.1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1.1
10237	Tetrachloroethene	127-18-4	2	1	1.1
10237	Toluene	108-88-3	N.D.	1	1.1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1.1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1.1

Sample Description: PLA-S-FS-SB09-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940260
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF096 SDG#: NWP17-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1.1
10237	Trichloroethene	79-01-6	N.D.	1	1.1
10237	Trichlorofluoromethane	75-69-4	N.D.	3	1.1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1.1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1.1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1.1
10237	Vinyl Chloride	75-01-4	N.D.	1	1.1
10237	m+p-Xylene	179601-23-1	N.D.	1	1.1
10237	o-Xylene	95-47-6	N.D.	1	1.1

The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	200	10
10726	Acenaphthylene	208-96-8	N.D.	200	10
10726	Anthracene	120-12-7	330 J	200	10
10726	Benzidine	92-87-5	N.D.	42,000	10
10726	Benzo(a)anthracene	56-55-3	1,900	200	10
10726	Benzo(a)pyrene	50-32-8	11,000	200	10
10726	Benzo(b)fluoranthene	205-99-2	12,000	200	10
10726	Benzo(g,h,i)perylene	191-24-2	9,200	200	10
10726	Benzo(k)fluoranthene	207-08-9	2,900	200	10
10726	Benzoic acid	65-85-0	N.D.	9,900	10
10726	Benzyl alcohol	100-51-6	N.D.	9,900	10
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	990	10
10726	Butylbenzylphthalate	85-68-7	N.D.	4,000	10
10726	Di-n-butylphthalate	84-74-2	N.D.	4,000	10
10726	Carbazole	86-74-8	N.D.	990	10
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	990	10
10726	4-Chloroaniline	106-47-8	N.D.	2,000	10
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	990	10
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	990	10
10726	2-Chloronaphthalene	91-58-7	N.D.	420	10
10726	2-Chlorophenol	95-57-8	N.D.	990	10
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	990	10
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	990	10
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	3,900	200	10
10726	Dibenz(a,h)anthracene	53-70-3	2,300	200	10
10726	Dibenzofuran	132-64-9	N.D.	990	10
10726	1,2-Dichlorobenzene	95-50-1	N.D.	990	10
10726	1,3-Dichlorobenzene	541-73-1	N.D.	990	10
10726	1,4-Dichlorobenzene	106-46-7	N.D.	990	10
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	6,000	10

Sample Description: PLA-S-FS-SB09-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940260
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF096 SDG#: NWP17-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dichlorophenol	120-83-2	N.D.	990	10
10726	Diethylphthalate	84-66-2	N.D.	4,000	10
10726	2,4-Dimethylphenol	105-67-9	N.D.	990	10
10726	Dimethylphthalate	131-11-3	N.D.	4,000	10
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	9,900	10
10726	2,4-Dinitrophenol	51-28-5	N.D.	18,000	10
10726	2,4-Dinitrotoluene	121-14-2	N.D.	4,000	10
10726	2,6-Dinitrotoluene	606-20-2	N.D.	990	10
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	4,000	10
10726	Fluoranthene	206-44-0	2,200	200	10
10726	Fluorene	86-73-7	N.D.	200	10
10726	Hexachlorobenzene	118-74-1	N.D.	200	10
10726	Hexachlorobutadiene	87-68-3	N.D.	990	10
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	9,900	10
10726	Hexachloroethane	67-72-1	N.D.	2,000	10
10726	Indeno(1,2,3-cd)pyrene	193-39-5	8,300	200	10
10726	Isophorone	78-59-1	N.D.	990	10
10726	2-Methylnaphthalene	91-57-6	200 J	200	10
10726	2-Methylphenol	95-48-7	N.D.	990	10
10726	4-Methylphenol	106-44-5	N.D.	990	10
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	220 J	200	10
10726	2-Nitroaniline	88-74-4	N.D.	990	10
10726	3-Nitroaniline	99-09-2	N.D.	4,000	10
10726	4-Nitroaniline	100-01-6	N.D.	4,000	10
10726	Nitrobenzene	98-95-3	N.D.	990	10
10726	2-Nitrophenol	88-75-5	N.D.	990	10
10726	4-Nitrophenol	100-02-7	N.D.	9,900	10
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	990	10
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	990	10
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	4,000	10
10726	Pentachlorophenol	87-86-5	N.D.	2,000	10
10726	Phenanthrene	85-01-8	700 J	700	10
10726	Phenol	108-95-2	N.D.	990	10
10726	Pyrene	129-00-0	7,200	200	10
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	990	10
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	990	10
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	990	10

Reporting limits were raised due to interference from the sample matrix.

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	4,580	5.31	1
06944	Antimony	7440-36-0	0.506 J	0.386	1
06935	Arsenic	7440-38-2	7.48	0.748	1
06946	Barium	7440-39-3	35.2	0.0386	1

Sample Description: PLA-S-FS-SB09-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940260
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

Reported: 06/30/2015 14:36

Suite 103

Oakbrook IL 60523

PF096 SDG#: NWP17-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06947	Beryllium	7440-41-7	0.403 J	0.0783	1
06949	Cadmium	7440-43-9	0.525 J	0.0386	1
01650	Calcium	7440-70-2	10,300	4.43	1
06951	Chromium	7440-47-3	8.57	0.129	1
06952	Cobalt	7440-48-4	5.97	0.112	1
06953	Copper	7440-50-8	40.1	0.386	1
01654	Iron	7439-89-6	14,800	3.90	1
06955	Lead	7439-92-1	40.1	0.584	1
01657	Magnesium	7439-95-4	4,040	1.95	1
06958	Manganese	7439-96-5	235	0.0970	1
06961	Nickel	7440-02-0	16.4	0.175	1
01662	Potassium	7440-09-7	791	15.2	1
06936	Selenium	7782-49-2	1.27 J	0.514	1
06966	Silver	7440-22-4	0.341 J	0.222	1
01667	Sodium	7440-23-5	83.8 J	19.5	1
06925	Thallium	7440-28-0	N.D.	0.935	1
06971	Vanadium	7440-62-2	14.2	0.106	1
06972	Zinc	7440-66-6	171	0.304	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0669 J	0.0114	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	16.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 18:10	Kathrine K Muramatsu	1.1
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517438061	06/23/2015 19:43	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517438061	06/23/2015 19:43	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517438061	06/22/2015 14:25	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15175SLE026	06/26/2015 11:47	Linda M Hartenstine	10
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15175SLE026	06/24/2015 18:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1

Sample Description: PLA-S-FS-SB09-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7940260
LL Group # 1571386
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/22/2015 14:25

Geosyntec

Submitted: 06/23/2015 09:20

1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PF096 SDG#: NWP17-19

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06944	Antimony	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151765708003	06/29/2015 16:17	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151765708003	06/28/2015 10:32	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151765711003	06/26/2015 10:03	Damary Valentin	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151765708003	06/25/2015 22:23	Annamaria Kuhns	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151765711003	06/26/2015 02:00	Annamaria Kuhns	1
00111	Moisture	SM 2540 G-1997	1	15177820003B	06/26/2015 19:06	Scott W Freisher	1

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A151781AA	Sample number(s): 7940254-7940255, 7940259-7940260							
Acetone	N.D.	7.	ug/kg	89		57-127		
Benzene	N.D.	0.5	ug/kg	99		80-120		
Bromobenzene	N.D.	1.	ug/kg	101		78-120		
Bromochloromethane	N.D.	1.	ug/kg	109		80-120		
Bromodichloromethane	N.D.	1.	ug/kg	98		75-120		
Bromoform	N.D.	1.	ug/kg	92		64-120		
Bromomethane	N.D.	2.	ug/kg	99		41-144		
2-Butanone	N.D.	4.	ug/kg	92		62-123		
n-Butylbenzene	N.D.	1.	ug/kg	101		72-120		
sec-Butylbenzene	N.D.	1.	ug/kg	102		69-120		
tert-Butylbenzene	N.D.	1.	ug/kg	101		75-120		
Carbon Disulfide	N.D.	1.	ug/kg	88		52-126		
Carbon Tetrachloride	N.D.	1.	ug/kg	95		69-130		
Chlorobenzene	N.D.	1.	ug/kg	104		80-120		
Chloroethane	N.D.	2.	ug/kg	91		38-142		
Chloroform	N.D.	1.	ug/kg	100		80-120		
Chloromethane	N.D.	2.	ug/kg	100		56-120		
2-Chlorotoluene	N.D.	1.	ug/kg	102		78-120		
4-Chlorotoluene	N.D.	1.	ug/kg	103		79-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	90		59-122		
Dibromochloromethane	N.D.	1.	ug/kg	98		77-120		
1,2-Dibromoethane	N.D.	1.	ug/kg	103		80-120		
Dibromomethane	N.D.	1.	ug/kg	99		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/kg	97		26-137		
1,1-Dichloroethane	N.D.	1.	ug/kg	98		77-120		
1,2-Dichloroethane	N.D.	1.	ug/kg	102		77-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	94		73-129		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	100		80-120		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	100		79-122		
1,2-Dichloropropane	N.D.	1.	ug/kg	104		76-120		
1,3-Dichloropropane	N.D.	1.	ug/kg	102		80-120		
2,2-Dichloropropane	N.D.	1.	ug/kg	100		72-123		
1,1-Dichloropropene	N.D.	1.	ug/kg	91		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	97		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	102		76-120		
Ethylbenzene	N.D.	1.	ug/kg	103		80-120		
2-Hexanone	N.D.	3.	ug/kg	93		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	103		76-120		
p-Isopropyltoluene	N.D.	1.	ug/kg	100		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	99		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	94		57-123		
Methylene Chloride	N.D.	2.	ug/kg	102		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	103		77-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571386

Reported: 06/30/2015 14:36

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	102		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	99		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	100		78-120		
Toluene	N.D.	1.	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	98		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	95		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104		80-120		
Trichloroethene	N.D.	1.	ug/kg	100		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	94		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	101		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	103		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	102		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	100		59-120		
m+p-Xylene	N.D.	1.	ug/kg	104		80-120		
o-Xylene	N.D.	1.	ug/kg	101		80-120		

Batch number: A151791AA

Sample number(s): 7940256-7940257

Acetone	N.D.	7.	ug/kg	114	113	57-127	1	30
Benzene	N.D.	0.5	ug/kg	96	97	80-120	1	30
Bromobenzene	N.D.	1.	ug/kg	101	101	78-120	1	30
Bromochloromethane	N.D.	1.	ug/kg	108	108	80-120	0	30
Bromodichloromethane	N.D.	1.	ug/kg	98	97	75-120	0	30
Bromoform	N.D.	1.	ug/kg	95	92	64-120	4	30
Bromomethane	N.D.	2.	ug/kg	94	93	41-144	1	30
2-Butanone	N.D.	4.	ug/kg	97	91	62-123	6	30
n-Butylbenzene	N.D.	1.	ug/kg	98	100	72-120	1	30
sec-Butylbenzene	N.D.	1.	ug/kg	99	101	69-120	2	30
tert-Butylbenzene	N.D.	1.	ug/kg	96	101	75-120	5	30
Carbon Disulfide	N.D.	1.	ug/kg	73	73	52-126	0	30
Carbon Tetrachloride	N.D.	1.	ug/kg	95	94	69-130	1	30
Chlorobenzene	N.D.	1.	ug/kg	104	102	80-120	2	30
Chloroethane	N.D.	2.	ug/kg	87	90	38-142	3	30
Chloroform	N.D.	1.	ug/kg	99	98	80-120	1	30
Chloromethane	N.D.	2.	ug/kg	95	95	56-120	0	30
2-Chlorotoluene	N.D.	1.	ug/kg	100	102	78-120	2	30
4-Chlorotoluene	N.D.	1.	ug/kg	100	103	79-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	97	89	59-122	8	30
Dibromochloromethane	N.D.	1.	ug/kg	98	97	77-120	2	30
1,2-Dibromoethane	N.D.	1.	ug/kg	104	102	80-120	1	30
Dibromomethane	N.D.	1.	ug/kg	100	99	80-120	2	30
Dichlorodifluoromethane	N.D.	2.	ug/kg	101	98	26-137	4	30
1,1-Dichloroethane	N.D.	1.	ug/kg	94	94	77-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/kg	100	99	77-130	0	30
1,1-Dichloroethene	N.D.	1.	ug/kg	86	85	73-129	1	30
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	97	99	80-120	2	30
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	96	96	79-122	0	30
1,2-Dichloropropane	N.D.	1.	ug/kg	100	102	76-120	2	30
1,3-Dichloropropane	N.D.	1.	ug/kg	101	100	80-120	1	30
2,2-Dichloropropane	N.D.	1.	ug/kg	97	98	72-123	1	30
1,1-Dichloropropene	N.D.	1.	ug/kg	89	91	80-120	2	30
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	94	94	74-120	0	30
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	101	101	76-120	0	30
Ethylbenzene	N.D.	1.	ug/kg	100	101	80-120	0	30
2-Hexanone	N.D.	3.	ug/kg	101	94	47-133	8	30
Isopropylbenzene	N.D.	1.	ug/kg	100	101	76-120	1	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571386

Reported: 06/30/2015 14:36

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
p-Isopropyltoluene	N.D.	1.	ug/kg	97	100	69-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	95	93	72-120	2	30
4-Methyl-2-pentanone	N.D.	3.	ug/kg	102	93	57-123	8	30
Methylene Chloride	N.D.	2.	ug/kg	95	96	80-124	1	30
n-Propylbenzene	N.D.	1.	ug/kg	99	102	77-120	3	30
Styrene	N.D.	1.	ug/kg	104	103	76-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	101	101	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	106	102	72-120	4	30
Tetrachloroethene	N.D.	1.	ug/kg	100	99	78-120	1	30
Toluene	N.D.	1.	ug/kg	100	100	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	93	94	52-120	1	30
1,1,1-Trichloroethane	N.D.	1.	ug/kg	87	88	66-126	1	30
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104	102	80-120	2	30
Trichloroethene	N.D.	1.	ug/kg	99	99	80-120	0	30
Trichlorofluoromethane	N.D.	2.	ug/kg	98	97	58-133	1	30
1,2,3-Trichloropropane	N.D.	1.	ug/kg	107	103	77-120	3	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	99	101	79-120	2	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	100	102	78-120	3	30
Vinyl Chloride	N.D.	1.	ug/kg	97	97	59-120	0	30
m+p-Xylene	N.D.	1.	ug/kg	102	102	80-120	1	30
o-Xylene	N.D.	1.	ug/kg	97	99	80-120	2	30

Batch number: B151772AA

Sample number(s): 7940239-7940242, 7940244-7940253

Acetone	N.D.	7.	ug/kg	98		57-127		
Benzene	N.D.	0.5	ug/kg	104		80-120		
Bromobenzene	N.D.	1.	ug/kg	100		78-120		
Bromochloromethane	N.D.	1.	ug/kg	120		80-120		
Bromodichloromethane	N.D.	1.	ug/kg	94		75-120		
Bromoform	N.D.	1.	ug/kg	84		64-120		
Bromomethane	N.D.	2.	ug/kg	107		41-144		
2-Butanone	N.D.	4.	ug/kg	94		62-123		
n-Butylbenzene	N.D.	1.	ug/kg	94		72-120		
sec-Butylbenzene	N.D.	1.	ug/kg	98		69-120		
tert-Butylbenzene	N.D.	1.	ug/kg	102		75-120		
Carbon Disulfide	N.D.	1.	ug/kg	93		52-126		
Carbon Tetrachloride	N.D.	1.	ug/kg	97		69-130		
Chlorobenzene	N.D.	1.	ug/kg	102		80-120		
Chloroethane	N.D.	2.	ug/kg	102		38-142		
Chloroform	N.D.	1.	ug/kg	109		80-120		
Chloromethane	N.D.	2.	ug/kg	99		56-120		
2-Chlorotoluene	N.D.	1.	ug/kg	97		78-120		
4-Chlorotoluene	N.D.	1.	ug/kg	100		79-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	90		59-122		
Dibromochloromethane	N.D.	1.	ug/kg	86		77-120		
1,2-Dibromoethane	N.D.	1.	ug/kg	99		80-120		
Dibromomethane	N.D.	1.	ug/kg	105		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/kg	94		26-137		
1,1-Dichloroethane	N.D.	1.	ug/kg	100		77-120		
1,2-Dichloroethane	N.D.	1.	ug/kg	112		77-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	112		73-129		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	109		80-120		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	112		79-122		
1,2-Dichloropropane	N.D.	1.	ug/kg	99		76-120		
1,3-Dichloropropane	N.D.	1.	ug/kg	97		80-120		
2,2-Dichloropropane	N.D.	1.	ug/kg	90		72-123		
1,1-Dichloropropene	N.D.	1.	ug/kg	98		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	90		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	84		76-120		
Ethylbenzene	N.D.	1.	ug/kg	100		80-120		
2-Hexanone	N.D.	3.	ug/kg	82		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	103		76-120		
p-Isopropyltoluene	N.D.	1.	ug/kg	98		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	104		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	87		57-123		
Methylene Chloride	N.D.	2.	ug/kg	112		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	97		77-120		
Styrene	N.D.	1.	ug/kg	100		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	98		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	92		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	111		78-120		
Toluene	N.D.	1.	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	102		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	93		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	99		80-120		
Trichloroethene	N.D.	1.	ug/kg	108		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	109		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	102		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	95		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	98		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	104		59-120		
m+p-Xylene	N.D.	1.	ug/kg	102		80-120		
o-Xylene	N.D.	1.	ug/kg	99		80-120		

Batch number: L151773AA

Sample number(s): 7940258

Acetone	N.D.	6.	ug/l	88		55-129		
Benzene	N.D.	0.5	ug/l	103		78-120		
Bromobenzene	N.D.	1.	ug/l	97		80-120		
Bromochloromethane	N.D.	1.	ug/l	97		80-120		
Bromodichloromethane	N.D.	0.5	ug/l	99		73-120		
Bromoform	N.D.	0.5	ug/l	86		52-123		
Bromomethane	N.D.	0.5	ug/l	97		53-130		
2-Butanone	N.D.	3.	ug/l	97		54-133		
n-Butylbenzene	N.D.	1.	ug/l	102		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	102		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	99		80-120		
Carbon Disulfide	N.D.	1.	ug/l	92		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	99		74-130		
Chlorobenzene	N.D.	0.5	ug/l	102		80-120		
Chloroethane	N.D.	0.5	ug/l	98		56-120		
Chloroform	N.D.	0.5	ug/l	103		80-120		
Chloromethane	N.D.	0.5	ug/l	101		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	99		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	100		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	91		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	96		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	104		80-120		
Dibromomethane	N.D.	0.5	ug/l	102		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	95		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	104		72-127		
1,1-Dichloroethene	N.D.	0.5	ug/l	99		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	101		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	103		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	106		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	98		63-131		
1,1-Dichloropropene	N.D.	1.	ug/l	96		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	94		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	94		76-120		
Ethylbenzene	N.D.	0.5	ug/l	102		80-120		
2-Hexanone	N.D.	3.	ug/l	95		50-131		
Isopropylbenzene	N.D.	1.	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	101		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	100		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	95		51-124		
Methylene Chloride	N.D.	2.	ug/l	101		80-120		
n-Propylbenzene	N.D.	1.	ug/l	103		80-120		
Styrene	N.D.	1.	ug/l	99		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	99		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	100		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	98		80-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	93		69-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	89		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	101		80-120		
Trichloroethene	N.D.	0.5	ug/l	103		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	100		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	102		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	100		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	100		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	101		69-120		
m+p-Xylene	N.D.	0.5	ug/l	101		80-120		
o-Xylene	N.D.	0.5	ug/l	99		80-120		

Batch number: 15175SLE026	Sample number (s): 7940244-7940245,7940247-7940248,7940250-7940257,7940260
Acenaphthene	N.D. 3. ug/kg 106 83-116
Acenaphthylene	N.D. 3. ug/kg 122 83-127
Anthracene	N.D. 3. ug/kg 112 82-118
Benzidine	N.D. 700. ug/kg 70 22-71
Benzo(a)anthracene	N.D. 3. ug/kg 102 76-119
Benzo(a)pyrene	N.D. 3. ug/kg 112 85-117
Benzo(b)fluoranthene	N.D. 3. ug/kg 112 78-129
Benzo(g,h,i)perylene	N.D. 3. ug/kg 116 82-119
Benzo(k)fluoranthene	N.D. 3. ug/kg 104 79-120
Benzoic acid	N.D. 170. ug/kg 90 41-122
Benzyl alcohol	N.D. 170. ug/kg 106 82-123
4-Bromophenyl-phenylether	N.D. 17. ug/kg 105 84-120
Butylbenzylphthalate	N.D. 67. ug/kg 105 80-118
Di-n-butylphthalate	N.D. 67. ug/kg 105 84-120
Carbazole	N.D. 17. ug/kg 110 78-117
4-Chloro-3-methylphenol	N.D. 17. ug/kg 103 79-127
4-Chloroaniline	N.D. 33. ug/kg 71 10-101
bis(2-Chloroethoxy)methane	N.D. 17. ug/kg 96 77-116
bis(2-Chloroethyl)ether	N.D. 17. ug/kg 98 77-115
2-Chloronaphthalene	N.D. 7. ug/kg 97 63-146
2-Chlorophenol	N.D. 17. ug/kg 124* 85-123
4-Chlorophenyl-phenylether	N.D. 17. ug/kg 102 81-120
2,2'-oxybis(1-Chloropropane)	N.D. 17. ug/kg 99 70-119

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571386

Reported: 06/30/2015 14:36

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chrysene	N.D.	3.	ug/kg	104		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	113		81-123		
Dibenzofuran	N.D.	17.	ug/kg	105		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	105		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	96		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	97		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	48		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	114		81-123		
Diethylphthalate	N.D.	67.	ug/kg	99		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	99		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	103		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	105		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	110		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	110		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	112		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	101		81-121		
Fluoranthene	N.D.	3.	ug/kg	99		81-117		
Fluorene	N.D.	3.	ug/kg	110		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	109		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	81		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	99		75-176		
Hexachloroethane	N.D.	33.	ug/kg	94		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	112		81-118		
Isophorone	N.D.	17.	ug/kg	94		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	102		83-109		
2-Methylphenol	N.D.	17.	ug/kg	118		82-125		
4-Methylphenol	N.D.	17.	ug/kg	112		75-119		
Naphthalene	N.D.	3.	ug/kg	102		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	119		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	117		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	93		48-112		
Nitrobenzene	N.D.	17.	ug/kg	82		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	114		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	82		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	91		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	111		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	111		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	104		57-126		
Phenanthrene	N.D.	3.	ug/kg	111		80-114		
Phenol	N.D.	17.	ug/kg	102		75-117		
Pyrene	N.D.	3.	ug/kg	102		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	99		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	110		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	110		81-123		

Batch number: 15175SLH026

Sample number(s): 7940239-7940242, 7940249

Acenaphthene	N.D.	3.	ug/kg	97		83-116		
Acenaphthylene	N.D.	3.	ug/kg	111		83-127		
Anthracene	N.D.	3.	ug/kg	104		82-118		
Benzidine	N.D.	700.	ug/kg	78*		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	89		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	101		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	102		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	102		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	92		79-120		
Benzoic acid	N.D.	170.	ug/kg	83		41-122		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzyl alcohol	N.D.	170.	ug/kg	95		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	96		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	92		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	96		84-120		
Carbazole	N.D.	17.	ug/kg	100		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	91		79-127		
4-Chloroaniline	N.D.	33.	ug/kg	87		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	88		77-116		
bis(2-Chloroethyl) ether	N.D.	17.	ug/kg	87		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	86		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	109		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	92		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	90		70-119		
Chrysene	N.D.	3.	ug/kg	89		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	99		81-123		
Dibenzofuran	N.D.	17.	ug/kg	97		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	95		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	89		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	87		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	50		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	103		81-123		
Diethylphthalate	N.D.	67.	ug/kg	93		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	94		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	93		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	91		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	79		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	99		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	102		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	86		81-121		
Fluoranthene	N.D.	3.	ug/kg	91		81-117		
Fluorene	N.D.	3.	ug/kg	98		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	99		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	77*		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	90		75-176		
Hexachloroethane	N.D.	33.	ug/kg	87		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	98		81-118		
Isophorone	N.D.	17.	ug/kg	85*		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	93		83-109		
2-Methylphenol	N.D.	17.	ug/kg	103		82-125		
4-Methylphenol	N.D.	17.	ug/kg	96		75-119		
Naphthalene	N.D.	3.	ug/kg	94		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	110		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	107		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	94		48-112		
Nitrobenzene	N.D.	17.	ug/kg	75*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	105		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	69		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	78		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	103		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	99		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	96		57-126		
Phenanthrene	N.D.	3.	ug/kg	101		80-114		
Phenol	N.D.	17.	ug/kg	90		75-117		
Pyrene	N.D.	3.	ug/kg	92		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	89		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	101		86-123		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	100		81-123		
Batch number: 15178SLA026	Sample number(s): 7940246							
Acenaphthene	N.D.	3.	ug/kg	102		83-116		
Acenaphthylene	N.D.	3.	ug/kg	108		83-127		
Anthracene	N.D.	3.	ug/kg	104		82-118		
Benzidine	N.D.	700.	ug/kg	86*		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	102		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	104		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	101		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	107		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	96		79-120		
Benzoic acid	N.D.	170.	ug/kg	81		41-122		
Benzyl alcohol	N.D.	170.	ug/kg	94		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	99		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	101		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	98		84-120		
Carbazole	N.D.	17.	ug/kg	100		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	99		79-127		
4-Chloroaniline	N.D.	33.	ug/kg	85		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	88		77-116		
bis(2-Chloroethyl) ether	N.D.	17.	ug/kg	86		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	115		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	109		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	99		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	93		70-119		
Chrysene	N.D.	3.	ug/kg	95		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	107		81-123		
Dibenzofuran	N.D.	17.	ug/kg	102		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	98		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	92		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	91		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	64		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	104		81-123		
Diethylphthalate	N.D.	67.	ug/kg	99		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	93		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	98		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	78		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	57		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	103		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	108		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	98		81-121		
Fluoranthene	N.D.	3.	ug/kg	92		81-117		
Fluorene	N.D.	3.	ug/kg	105		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	99		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	83		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	81		75-176		
Hexachloroethane	N.D.	33.	ug/kg	88		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	105		81-118		
Isophorone	N.D.	17.	ug/kg	91		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	95		83-109		
2-Methylphenol	N.D.	17.	ug/kg	103		82-125		
4-Methylphenol	N.D.	17.	ug/kg	97		75-119		
Naphthalene	N.D.	3.	ug/kg	95		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	116		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	112		66-119		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571386

Reported: 06/30/2015 14:36

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Nitroaniline	N.D.	67.	ug/kg	86		48-112		
Nitrobenzene	N.D.	17.	ug/kg	78*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	104		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	84		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	84		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	102		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	101		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	101		57-126		
Phenanthrene	N.D.	3.	ug/kg	101		80-114		
Phenol	N.D.	17.	ug/kg	90		75-117		
Pyrene	N.D.	3.	ug/kg	99		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	92		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	102		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	106		81-123		

Batch number: 151765708003	Sample number(s): 7940239-7940257,7940260				
Aluminum	7.73 J	4.54	mg/kg	103	80-120
Antimony	0.494 J	0.330	mg/kg	105	80-120
Arsenic	N.D.	0.640	mg/kg	102	80-120
Barium	N.D.	0.0330	mg/kg	102	80-120
Beryllium	N.D.	0.0670	mg/kg	102	80-120
Cadmium	N.D.	0.0330	mg/kg	99	80-120
Calcium	5.30 J	3.79	mg/kg	104	80-120
Chromium	N.D.	0.110	mg/kg	102	80-120
Cobalt	N.D.	0.0960	mg/kg	101	80-120
Copper	N.D.	0.330	mg/kg	102	80-120
Iron	N.D.	3.34	mg/kg	104	80-120
Lead	N.D.	0.500	mg/kg	103	80-120
Magnesium	2.95 J	1.67	mg/kg	105	80-120
Manganese	N.D.	0.0830	mg/kg	101	80-120
Nickel	N.D.	0.150	mg/kg	103	80-120
Potassium	N.D.	13.0	mg/kg	101	80-120
Selenium	N.D.	0.440	mg/kg	104	80-120
Silver	N.D.	0.190	mg/kg	106	80-120
Sodium	N.D.	16.7	mg/kg	102	80-120
Thallium	N.D.	0.800	mg/kg	112	80-120
Vanadium	N.D.	0.0910	mg/kg	107	80-120
Zinc	N.D.	0.260	mg/kg	100	80-120

Batch number: 151765711003	Sample number(s): 7940239-7940257,7940260				
Mercury	N.D.	0.0100	mg/kg	99	80-120

Batch number: 15177820003B	Sample number(s): 7940239,7940244-7940257,7940260				
Moisture				100	99-101

Batch number: 15180820006A	Sample number(s): 7940240-7940243				
Moisture				100	99-101
Moisture				100	99-101
Moisture Duplicate				100	99-101

Sample Matrix Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571386

Reported: 06/30/2015 14:36

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: A151781AA	Sample number(s): 7940254-7940255,7940259-7940260 UNSPK: P941563								
Acetone	124	121	31-195	9	30				
Benzene	110	102	55-143	3	30				
Bromobenzene	120	111	43-139	3	30				
Bromochloromethane	113	106	60-137	4	30				
Bromodichloromethane	102	94	53-136	3	30				
Bromoform	91	78	50-144	5	30				
Bromomethane	103	106	42-168	13	30				
2-Butanone	89	78	37-163	2	30				
n-Butylbenzene	119	106	30-146	1	30				
sec-Butylbenzene	138	127	33-157	3	30				
tert-Butylbenzene	137	131	41-152	7	30				
Carbon Disulfide	105	99	48-146	5	30				
Carbon Tetrachloride	113	105	51-165	4	30				
Chlorobenzene	111	100	49-135	1	30				
Chloroethane	97	100	39-152	14	30				
Chloroform	112	104	61-142	4	30				
Chloromethane	109	115	36-143	16	30				
2-Chlorotoluene	129	121	42-146	5	30				
4-Chlorotoluene	123	114	39-145	3	30				
1,2-Dibromo-3-chloropropane	97	87	34-165	0	30				
Dibromochloromethane	105	94	51-128	0	30				
1,2-Dibromoethane	109	99	54-129	2	30				
Dibromomethane	105	94	57-130	0	30				
Dichlorodifluoromethane	121	118	26-151	8	30				
1,1-Dichloroethane	110	103	63-142	5	30				
1,2-Dichloroethane	107	97	54-143	2	30				
1,1-Dichloroethene	113	107	61-149	5	30				
cis-1,2-Dichloroethene	111	104	67-135	4	30				
trans-1,2-Dichloroethene	116	108	64-144	4	30				
1,2-Dichloropropane	112	104	54-144	4	30				
1,3-Dichloropropane	111	102	51-140	2	30				
2,2-Dichloropropane	115	108	53-147	5	30				
1,1-Dichloropropene	107	100	54-145	5	30				
cis-1,3-Dichloropropene	97	87	45-137	1	30				
trans-1,3-Dichloropropene	109	97	51-134	1	30				
Ethylbenzene	117	108	44-141	3	30				
2-Hexanone	97	82	32-160	5	30				
Isopropylbenzene	116	104	38-144	0	30				
p-Isopropyltoluene	130	124	29-152	7	30				
Methyl Tertiary Butyl Ether	103	94	55-129	2	30				
4-Methyl-2-pentanone	97	83	46-139	5	30				
Methylene Chloride	115	105	60-149	2	30				
n-Propylbenzene	142	134	39-157	5	30				
Styrene	101	88	35-134	3	30				
1,1,1,2-Tetrachloroethane	112	106	55-139	5	30				
1,1,2,2-Tetrachloroethane	130	118	29-182	1	30				
Tetrachloroethene	121	112	42-149	3	30				
Toluene	120	114	50-146	6	30				
1,2,3-Trichlorobenzene	46	35	10-140	16	30				
1,1,1-Trichloroethane	108	103	52-146	6	30				
1,1,2-Trichloroethane	113	104	58-152	2	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Trichloroethene	112	102	53-144	2	30			
Trichlorofluoromethane	111	112	47-163	12	30			
1,2,3-Trichloropropane	137	123	36-180	1	30			
1,2,4-Trimethylbenzene	128	120	37-149	4	30			
1,3,5-Trimethylbenzene	136	128	38-150	5	30			
Vinyl Chloride	113	116	50-154	13	30			
m+p-Xylene	116	105	44-137	2	30			
o-Xylene	108	98	42-137	2	30			
Batch number: A151791AA Sample number(s): 7940256-7940257 UNSPK: P943407								
Acetone	112	121	31-195	2	30			
Benzene	102	103	55-143	5	30			
Bromobenzene	120	120	43-139	5	30			
Bromochloromethane	114	116	60-137	4	30			
Bromodichloromethane	97	100	53-136	2	30			
Bromoform	79	85	50-144	3	30			
Bromomethane	112	116	42-168	2	30			
2-Butanone	85	96	37-163	7	30			
n-Butylbenzene	81	82	30-146	5	30			
sec-Butylbenzene	109	113	33-157	3	30			
tert-Butylbenzene	127	123	41-152	9	30			
Carbon Disulfide	76	75	48-146	6	30			
Carbon Tetrachloride	108	108	51-165	5	30			
Chlorobenzene	99	98	49-135	6	30			
Chloroethane	106	110	39-152	1	30			
Chloroform	108	112	61-142	2	30			
Chloromethane	116	123	36-143	0	30			
2-Chlorotoluene	128	126	42-146	7	30			
4-Chlorotoluene	115	111	39-145	9	30			
1,2-Dibromo-3-chloropropane	94	106	34-165	7	30			
Dibromochloromethane	102	105	51-128	2	30			
1,2-Dibromoethane	98	105	54-129	1	30			
Dibromomethane	90	97	57-130	3	30			
Dichlorodifluoromethane	130	135	26-151	2	30			
1,1-Dichloroethane	105	109	63-142	2	30			
1,2-Dichloroethane	100	105	54-143	1	30			
1,1-Dichloroethene	98	99	61-149	4	30			
cis-1,2-Dichloroethene	102	103	67-135	5	30			
trans-1,2-Dichloroethene	100	102	64-144	4	30			
1,2-Dichloropropane	106	111	54-144	1	30			
1,3-Dichloropropane	109	114	51-140	1	30			
2,2-Dichloropropane	114	116	53-147	4	30			
1,1-Dichloropropene	92	94	54-145	4	30			
cis-1,3-Dichloropropene	81	85	45-137	0	30			
trans-1,3-Dichloropropene	94	98	51-134	1	30			
Ethylbenzene	108	105	44-141	9	30			
2-Hexanone	91	105	32-160	8	30			
Isopropylbenzene	96	95	38-144	6	30			
p-Isopropyltoluene	115	122	29-152	0	30			
Methyl Tertiary Butyl Ether	95	104	55-129	3	30			
4-Methyl-2-pentanone	83	95	46-139	7	30			
Methylene Chloride	106	108	60-149	4	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
n-Propylbenzene	131	127	39-157	8	30			
Styrene	84	86	35-134	3	30			
1,1,1,2-Tetrachloroethane	119	118	55-139	6	30			
1,1,2,2-Tetrachloroethane	144	152	29-182	1	30			
Tetrachloroethene	24*	14*	42-149	10	30			
Toluene	118	116	50-146	8	30			
1,2,3-Trichlorobenzene	28	34	10-140	13	30			
1,1,1-Trichloroethane	101	102	52-146	5	30			
1,1,2-Trichloroethane	115	122	58-152	0	30			
Trichloroethene	99	99	53-144	5	30			
Trichlorofluoromethane	121	124	47-163	3	30			
1,2,3-Trichloropropane	154	158	36-180	3	30			
1,2,4-Trimethylbenzene	121	117	37-149	9	30			
1,3,5-Trimethylbenzene	129	126	38-150	8	30			
Vinyl Chloride	120	124	50-154	2	30			
m+p-Xylene	104	101	44-137	8	30			
o-Xylene	97	96	42-137	6	30			

Batch number: B151772AA	Sample number(s): 7940239-7940242,7940244-7940253	UNSPK: 7940240			
Acetone	96	87	31-195	7	30
Benzene	101	97	55-143	2	30
Bromobenzene	92	87	43-139	5	30
Bromochloromethane	113	107	60-137	4	30
Bromodichloromethane	88	85	53-136	2	30
Bromoform	69	67	50-144	2	30
Bromomethane	106	108	42-168	3	30
2-Butanone	92	84	37-163	8	30
n-Butylbenzene	61	58	30-146	4	30
sec-Butylbenzene	72	69	33-157	3	30
tert-Butylbenzene	73	69	41-152	5	30
Carbon Disulfide	85	84	48-146	0	30
Carbon Tetrachloride	88	88	51-165	1	30
Chlorobenzene	92	88	49-135	3	30
Chloroethane	102	105	39-152	4	30
Chloroform	108	104	61-142	2	30
Chloromethane	101	105	36-143	5	30
2-Chlorotoluene	84	81	42-146	2	30
4-Chlorotoluene	83	78	39-145	5	30
1,2-Dibromo-3-chloropropane	62	62	34-165	0	30
Dibromochloromethane	82	77	51-128	5	30
1,2-Dibromoethane	97	90	54-129	6	30
Dibromomethane	99	94	57-130	4	30
Dichlorodifluoromethane	110	112	26-151	3	30
1,1-Dichloroethane	99	96	63-142	2	30
1,2-Dichloroethane	109	106	54-143	2	30
1,1-Dichloroethene	122	119	61-149	1	30
cis-1,2-Dichloroethene	106	103	67-135	2	30
trans-1,2-Dichloroethene	108	106	64-144	1	30
1,2-Dichloropropane	96	95	54-144	0	30
1,3-Dichloropropane	94	89	51-140	4	30
2,2-Dichloropropane	87	86	53-147	0	30
1,1-Dichloropropene	93	90	54-145	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
cis-1,3-Dichloropropene	83	82	45-137	0	30			
trans-1,3-Dichloropropene	82	78	51-134	4	30			
Ethylbenzene	86	81	44-141	5	30			
2-Hexanone	81	73	32-160	10	30			
Isopropylbenzene	81	77	38-144	3	30			
p-Isopropyltoluene	69	66	29-152	4	30			
Methyl Tertiary Butyl Ether	102	99	55-129	1	30			
4-Methyl-2-pentanone	81	78	46-139	2	30			
Methylene Chloride	110	106	60-149	3	30			
n-Propylbenzene	79	75	39-157	4	30			
Styrene	85	81	35-134	3	30			
1,1,1,2-Tetrachloroethane	88	85	55-139	2	30			
1,1,2,2-Tetrachloroethane	0*	0*	29-182	0	30			
Tetrachloroethene	172*	163*	42-149	4	30			
Toluene	97	92	50-146	4	30			
1,2,3-Trichlorobenzene	47	45	10-140	3	30			
1,1,1-Trichloroethane	87	86	52-146	0	30			
1,1,2-Trichloroethane	84	78	58-152	6	30			
Trichloroethene	181*	175*	53-144	2	30			
Trichlorofluoromethane	114	115	47-163	2	30			
1,2,3-Trichloropropane	100	92	36-180	6	30			
1,2,4-Trimethylbenzene	76	72	37-149	3	30			
1,3,5-Trimethylbenzene	78	74	38-150	4	30			
Vinyl Chloride	105	107	50-154	3	30			
m+p-Xylene	87	82	44-137	4	30			
o-Xylene	85	81	42-137	4	30			

Batch number: L151773AA	Sample number(s): 7940258	UNSPK: P933794			
Acetone	88	90	35-144	2	30
Benzene	108	109	72-134	1	30
Bromobenzene	99	102	82-115	3	30
Bromochloromethane	101	101	76-134	0	30
Bromodichloromethane	105	106	73-125	1	30
Bromoform	87	88	48-118	1	30
Bromomethane	108	110	47-129	2	30
2-Butanone	95	94	44-135	1	30
n-Butylbenzene	107	110	74-134	3	30
sec-Butylbenzene	108	109	74-137	2	30
tert-Butylbenzene	104	106	81-121	2	30
Carbon Disulfide	100	101	53-149	0	30
Carbon Tetrachloride	115	116	75-148	1	30
Chlorobenzene	106	106	87-124	1	30
Chloroethane	108	108	55-130	1	30
Chloroform	110	112	81-134	1	30
Chloromethane	110	111	61-125	1	30
2-Chlorotoluene	101	103	82-118	2	30
4-Chlorotoluene	102	104	84-122	1	30
1,2-Dibromo-3-chloropropane	88	91	50-123	4	30
Dibromochloromethane	97	99	74-116	2	30
1,2-Dibromoethane	104	106	77-116	1	30
Dibromomethane	105	105	83-119	1	30
Dichlorodifluoromethane	122	122	58-156	0	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,1-Dichloroethane	108	109	84-129	0	30				
1,2-Dichloroethane	108	110	63-142	1	30				
1,1-Dichloroethene	113	113	79-137	0	30				
cis-1,2-Dichloroethene	106	109	80-141	2	30				
trans-1,2-Dichloroethene	111	111	86-131	1	30				
1,2-Dichloropropane	109	109	83-124	0	30				
1,3-Dichloropropane	103	104	81-120	1	30				
2,2-Dichloropropane	106	107	69-135	2	30				
1,1-Dichloropropene	106	107	86-137	1	30				
cis-1,3-Dichloropropene	95	96	70-116	1	30				
trans-1,3-Dichloropropene	93	96	74-119	3	30				
Ethylbenzene	107	109	71-134	2	30				
2-Hexanone	92	93	38-131	0	30				
Isopropylbenzene	108	109	75-128	1	30				
p-Isopropyltoluene	106	108	76-123	2	30				
Methyl Tertiary Butyl Ether	101	103	72-126	2	30				
4-Methyl-2-pentanone	93	93	45-128	0	30				
Methylene Chloride	105	106	78-133	1	30				
n-Propylbenzene	107	110	74-134	2	30				
Styrene	104	105	78-125	1	30				
1,1,1,2-Tetrachloroethane	104	105	80-123	1	30				
1,1,2,2-Tetrachloroethane	98	99	72-128	1	30				
Tetrachloroethene	108	110	80-128	1	30				
Toluene	107	109	80-125	2	30				
1,2,3-Trichlorobenzene	93	98	62-133	5	30				
1,1,1-Trichloroethane	110	120	69-140	3	30				
1,1,2-Trichloroethane	101	103	71-141	2	30				
Trichloroethene	115	117	88-133	1	30				
Trichlorofluoromethane	123	121	63-163	2	30				
1,2,3-Trichloropropane	101	102	76-118	1	30				
1,2,4-Trimethylbenzene	103	105	72-130	2	30				
1,3,5-Trimethylbenzene	104	107	65-132	3	30				
Vinyl Chloride	115	116	66-133	2	30				
m+p-Xylene	107	109	79-125	1	30				
o-Xylene	104	105	79-125	0	30				

Batch number: 15175SLE026

Sample number(s): 7940244-7940245,7940247-7940248,7940250-7940257,7940260 UNSPK:
7940244

Acenaphthene	108	87	45-141	22	30
Acenaphthylene	119	99	53-143	20	30
Anthracene	111	93	42-147	19	30
Benidine	0*	0*	35-141	0	30
Benzo(a)anthracene	98	75	32-150	25	30
Benzo(a)pyrene	98	74	36-151	26	30
Benzo(b)fluoranthene	85	70	29-150	18	30
Benzo(g,h,i)perylene	89	81	41-147	10	30
Benzo(k)fluoranthene	94	77	35-146	19	30
Benzoic acid	306*	92	23-170	109*	30
Benzyl alcohol	115	0*	74-123	200*	30
4-Bromophenyl-phenylether	109	93	48-146	18	30
Butylbenzylphthalate	121	97	50-137	24	30
Di-n-butylphthalate	115	88	65-126	28	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Carbazole	103	89	36-143	16	30			
4-Chloro-3-methylphenol	102	79	48-141	26	30			
4-Chloroaniline	72	73	10-100	0	30			
bis(2-Chloroethoxy)methane	110	82	64-119	31*	30			
bis(2-Chloroethyl) ether	101	72	63-122	34*	30			
2-Chloronaphthalene	110	91	40-156	19	30			
2-Chlorophenol	111	90	50-142	22	30			
4-Chlorophenyl-phenylether	100	85	49-135	18	30			
2,2'-oxybis(1-Chloropropane)	97	76	60-120	26	30			
Chrysene	95	82	28-146	15	30			
Dibenz(a,h)anthracene	96	82	38-156	17	30			
Dibenzofuran	108	87	34-146	22	30			
1,2-Dichlorobenzene	101	82	51-130	22	30			
1,3-Dichlorobenzene	95	76	51-125	23	30			
1,4-Dichlorobenzene	93	79	50-127	17	30			
3,3'-Dichlorobenzidine	0*	0*	10-143	0	30			
2,4-Dichlorophenol	141	91	46-145	44*	30			
Diethylphthalate	97	81	61-124	19	30			
2,4-Dimethylphenol	112	75	38-140	41*	30			
Dimethylphthalate	100	82	59-124	21	30			
4,6-Dinitro-2-methylphenol	0*	0*	10-148	0	30			
2,4-Dinitrophenol	0*	0*	20-143	0	30			
2,4-Dinitrotoluene	92	66	37-149	33*	30			
2,6-Dinitrotoluene	114	77	54-134	39*	30			
bis(2-Ethylhexyl)phthalate	125	97	60-133	26	30			
Fluoranthene	93	79	41-135	16	30			
Fluorene	114	86	43-146	30	30			
Hexachlorobenzene	103	83	36-150	22	30			
Hexachlorobutadiene	93	69	65-125	30	30			
Hexachlorocyclopentadiene	0*	0*	10-153	0	30			
Hexachloroethane	134	71	37-143	63*	30			
Indeno(1,2,3-cd)pyrene	88	80	35-151	10	30			
Isophorone	115	72	68-119	47*	30			
2-Methylnaphthalene	99	62	39-140	37*	30			
2-Methylphenol	117	92	36-149	24	30			
4-Methylphenol	116	79	46-135	39*	30			
Naphthalene	115	87	39-147	29	30			
2-Nitroaniline	116	102	46-152	15	30			
3-Nitroaniline	115	86	31-145	29	30			
4-Nitroaniline	88	76	30-131	15	30			
Nitrobenzene	121	71	54-131	53*	30			
2-Nitrophenol	120	68	38-150	56*	30			
4-Nitrophenol	0*	0*	25-142	0	30			
N-Nitroso-di-n-propylamine	12*	-247*	58-126	110*	30			
N-Nitrosodiphenylamine	116	97	41-147	19	30			
Di-n-octylphthalate	106	87	53-156	21	30			
Pentachlorophenol	96	69	23-145	34*	30			
Phenanthrene	107	81	42-141	25	30			
Phenol	123	84	53-129	39*	30			
Pyrene	105	91	37-140	15	30			
1,2,4-Trichlorobenzene	104	80	45-139	26	30			
2,4,5-Trichlorophenol	130	91	42-144	36*	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2,4,6-Trichlorophenol	113	86	43-145	28	30			
Batch number: 15175SLH026	Sample number(s): 7940239-7940242,7940249 UNSPK: 7940240							
Acenaphthene	102	100	45-141	3	30			
Acenaphthylene	113	113	53-143	0	30			
Anthracene	105	105	42-147	0	30			
Benizidine	59	56	35-141	6	30			
Benzo(a)anthracene	90	92	32-150	2	30			
Benzo(a)pyrene	99	99	36-151	1	30			
Benzo(b)fluoranthene	101	99	29-150	3	30			
Benzo(g,h,i)perylene	106	103	41-147	4	30			
Benzo(k)fluoranthene	93	93	35-146	1	30			
Benzoic acid	0*	0*	23-170	0	30			
Benzyl alcohol	92	93	74-123	0	30			
4-Bromophenyl-phenylether	99	97	48-146	3	30			
Butylbenzylphthalate	95	95	50-137	0	30			
Di-n-butylphthalate	97	96	65-126	2	30			
Carbazole	103	101	36-143	3	30			
4-Chloro-3-methylphenol	40*	56	48-141	34*	30			
4-Chloroaniline	63	61	10-100	4	30			
bis(2-Chloroethoxy)methane	88	89	64-119	0	30			
bis(2-Chloroethyl)ether	89	87	63-122	2	30			
2-Chloronaphthalene	108	117	40-156	7	30			
2-Chlorophenol	18*	36*	50-142	67*	30			
4-Chlorophenyl-phenylether	95	96	49-135	0	30			
2,2'-oxybis(1-Chloropropane)	92	90	60-120	2	30			
Chrysene	93	94	28-146	1	30			
Dibenz(a,h)anthracene	102	101	38-156	2	30			
Dibenzofuran	100	98	34-146	3	30			
1,2-Dichlorobenzene	100	94	51-130	7	30			
1,3-Dichlorobenzene	93	90	51-125	3	30			
1,4-Dichlorobenzene	92	93	50-127	0	30			
3,3'-Dichlorobenzidine	47	48	10-143	2	30			
2,4-Dichlorophenol	6*	10*	46-145	50*	30			
Diethylphthalate	92	91	61-124	2	30			
2,4-Dimethylphenol	78	84	38-140	6	30			
Dimethylphthalate	88	92	59-124	2	30			
4,6-Dinitro-2-methylphenol	0*	0*	10-148	0	30			
2,4-Dinitrophenol	0*	0*	20-143	0	30			
2,4-Dinitrotoluene	90	91	37-149	0	30			
2,6-Dinitrotoluene	103	100	54-134	4	30			
bis(2-Ethylhexyl)phthalate	94	95	60-133	0	30			
Fluoranthene	91	93	41-135	1	30			
Fluorene	104	103	43-146	2	30			
Hexachlorobenzene	101	99	36-150	3	30			
Hexachlorobutadiene	82	82	65-125	1	30			
Hexachlorocyclopentadiene	64	69	10-153	7	30			
Hexachloroethane	88	87	37-143	2	30			
Indeno(1,2,3-cd)pyrene	101	99	35-151	3	30			
Isophorone	81	81	68-119	1	30			
2-Methylnaphthalene	93	93	39-140	1	30			
2-Methylphenol	81	89	36-149	8	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
4-Methylphenol	66	77	46-135	13	30			
Naphthalene	97	96	39-147	2	30			
2-Nitroaniline	112	112	46-152	1	30			
3-Nitroaniline	95	92	31-145	5	30			
4-Nitroaniline	102	104	30-131	1	30			
Nitrobenzene	77	74	54-131	5	30			
2-Nitrophenol	2*	1*	38-150	37*	30			
4-Nitrophenol	0*	0*	25-142	0	30			
N-Nitroso-di-n-propylamine	79	79	58-126	1	30			
N-Nitrosodiphenylamine	104	103	41-147	2	30			
Di-n-octylphthalate	100	100	53-156	1	30			
Pentachlorophenol	2*	0*	23-145	200*	30			
Phenanthrene	102	103	42-141	0	30			
Phenol	57	73	53-129	24	30			
Pyrene	95	94	37-140	2	30			
1,2,4-Trichlorobenzene	95	93	45-139	3	30			
2,4,5-Trichlorophenol	2*	2*	42-144	15	30			
2,4,6-Trichlorophenol	2*	1*	43-145	28	30			
Batch number: 15178SLA026 Sample number(s): 7940246 UNSPK: P938100								
Acenaphthene	78	78	45-141	0	30			
Acenaphthylene	83	80	53-143	3	30			
Anthracene	78	76	42-147	2	30			
Benzidine	0*	0*	35-141	0	30			
Benzo(a)anthracene	65	69	32-150	6	30			
Benzo(a)pyrene	65	77	36-151	14	30			
Benzo(b)fluoranthene	59	70	29-150	15	30			
Benzo(g,h,i)perylene	71	78	41-147	8	30			
Benzo(k)fluoranthene	70	73	35-146	4	30			
Benzoic acid	38	44	23-170	15	30			
Benzyl alcohol	72*	71*	74-123	1	30			
4-Bromophenyl-phenylether	87	79	48-146	9	30			
Butylbenzylphthalate	75	81	50-137	8	30			
Di-n-butylphthalate	74	70	65-126	5	30			
Carbazole	76	76	36-143	2	30			
4-Chloro-3-methylphenol	71	66	48-141	6	30			
4-Chloroaniline	48	51	10-100	8	30			
bis(2-Chloroethoxy)methane	68	67	64-119	1	30			
bis(2-Chloroethyl)ether	71	73	63-122	3	30			
2-Chloronaphthalene	69	61	40-156	12	30			
2-Chlorophenol	86	84	50-142	2	30			
4-Chlorophenyl-phenylether	77	75	49-135	2	30			
2,2'-oxybis(1-Chloropropane)	72	77	60-120	8	30			
Chrysene	60	66	28-146	8	30			
Dibenz(a,h)anthracene	79	81	38-156	2	30			
Dibenzofuran	80	77	34-146	3	30			
1,2-Dichlorobenzene	81	74	51-130	9	30			
1,3-Dichlorobenzene	70	68	51-125	2	30			
1,4-Dichlorobenzene	76	71	50-127	6	30			
3,3'-Dichlorobenzidine	41	36	10-143	13	30			
2,4-Dichlorophenol	79	77	46-145	2	30			
Diethylphthalate	73	68	61-124	7	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dimethylphenol	66	65	38-140	0	30			
Dimethylphthalate	71	72	59-124	2	30			
4,6-Dinitro-2-methylphenol	61	0*	10-148	200*	30			
2,4-Dinitrophenol	47	0*	20-143	200*	30			
2,4-Dinitrotoluene	71	72	37-149	2	30			
2,6-Dinitrotoluene	80	68	54-134	15	30			
bis(2-Ethylhexyl)phthalate	81	79	60-133	2	30			
Fluoranthene	61	64	41-135	4	30			
Fluorene	77	77	43-146	1	30			
Hexachlorobenzene	71	77	36-150	8	30			
Hexachlorobutadiene	68	67	65-125	1	30			
Hexachlorocyclopentadiene	28	0*	10-153	200*	30			
Hexachloroethane	74	78	37-143	5	30			
Indeno(1,2,3-cd)pyrene	68	79	35-151	15	30			
Isophorone	65*	64*	68-119	2	30			
2-Methylnaphthalene	70	75	39-140	7	30			
2-Methylphenol	79	76	36-149	4	30			
4-Methylphenol	78	72	46-135	7	30			
Naphthalene	70	75	39-147	7	30			
2-Nitroaniline	83	91	46-152	10	30			
3-Nitroaniline	76	72	31-145	4	30			
4-Nitroaniline	69	72	30-131	5	30			
Nitrobenzene	60	59	54-131	2	30			
2-Nitrophenol	74	77	38-150	5	30			
4-Nitrophenol	65	62	25-142	5	30			
N-Nitroso-di-n-propylamine	63	63	58-126	0	30			
N-Nitrosodiphenylamine	81	79	41-147	3	30			
Di-n-octylphthalate	75	78	53-156	5	30			
Pentachlorophenol	58	63	23-145	8	30			
Phenanthrene	70	73	42-141	4	30			
Phenol	45*	50*	53-129	7	30			
Pyrene	64	71	37-140	8	30			
1,2,4-Trichlorobenzene	76	71	45-139	6	30			
2,4,5-Trichlorophenol	73	81	42-144	11	30			
2,4,6-Trichlorophenol	82	76	43-145	8	30			

Batch number: 151765708003	Sample number(s): 7940239-7940257,7940260	UNSPK: 7940240	BKG: 7940240
Aluminum	644 (2)	102 (2)	75-125 15 20 6,410 7,040 9 20
Antimony	89	95	75-125 7 20 0.400 J 0.556 J 33* (1) 20
Arsenic	97	107	75-125 8 20 3.84 4.49 16 (1) 20
Barium	101	98	75-125 2 20 57.9 59.9 3 20
Beryllium	100	96	75-125 3 20 0.859 0.955 11 (1) 20
Cadmium	89	89	75-125 0 20 0.121 J 0.127 J 5 (1) 20
Calcium	-5230 (2)	-1142 (2)	75-125 13 20 136,000 143,000 5 20
Chromium	93	104	75-125 8 20 7.01 7.82 11 (1) 20
Cobalt	88	90	75-125 2 20 2.40 2.47 3 (1) 20
Copper	111	106	75-125 4 20 7.45 8.30 11 20
Iron	-3639 (2)	-3061 (2)	75-125 7 20 11,500 8,890 25* 20
Lead	80	106	75-125 18 20 6.89 6.08 12 (1) 20
Magnesium	-5560	-201	75-125 46* 20 28,000 19,800 35* 20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Manganese	-105 (2)	-362 (2)	75-125	18	20	801	669	18	20
Nickel	89	96	75-125	6	20	6.67	7.69	14	20
Potassium	97	118	75-125	11	20	812	733	10	20
Selenium	105	104	75-125	1	20	0.638 J	0.928 J	37* (1)	20
Silver	107	110	75-125	2	20	0.226 J	0.244 J	7 (1)	20
Sodium	93	109	75-125	11	20	352	340	3 (1)	20
Thallium	100	102	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	106	106	75-125	0	20	8.24	9.04	9	20
Zinc	131*	93	75-125	21*	20	32.2	34.2	6	20
Batch number: 151765711003	Sample number(s): 7940239-7940257,7940260 UNSPK: 7940240 BKG: 7940240								
Mercury	102	98	80-120	6	20	N.D.	N.D.	0 (1)	20
Batch number: 15177820003B	Sample number(s): 7940239,7940244-7940257,7940260 BKG: P940240								
Moisture						6.2	8.9	36*	5
Batch number: 15180820006A	Sample number(s): 7940240-7940243 BKG: 7940240								
Moisture						7.8	7.0	11*	5
Moisture						7.8	7.0	11*	5
Moisture Duplicate						7.8	7.0	11*	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B

Batch number: A151781AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7940254	114	108	140	57
7940255	106	102	101	87
7940259	102	99	101	90
7940260	116	111	111	83
Blank	105	102	99	91
LCS	101	102	103	99
MS	101	101	109	90
MSD	102	100	112	88
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B

Batch number: A151791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7940256	109	105	107	76
7940257	111	111	99	90
Blank	107	107	96	89
LCS	102	106	102	98
LCSD	101	102	102	97

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Surrogate Quality Control

MS	105	104	121	79
MSD	105	104	118	82
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: B151772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7940239	48*	104	98	96
7940240	44*	105	99	95
7940241	39*	107	102	95
7940242	43*	107	101	97
7940244	108	107	98	103
7940245	107	106	98	93
7940246	108	108	100	94
7940247	108	109	100	95
7940248	106	104	97	96
7940249	52	106	97	96
7940250	108	105	115	77
7940251	106	105	98	96
7940252	106	106	97	96
7940253	104	100	100	94
Blank	106	107	97	97
LCS	107	106	98	97
MS	39*	107	102	95
MSD	43*	107	101	97
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: L151773AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7940258	100	100	101	100
Blank	100	101	101	102
LCS	101	101	101	102
MS	103	102	101	102
MSD	102	102	101	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: SVOA 8270D (microwave)
Batch number: 15175SLE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7940244	91	90	87	159*	91	97
7940245	88	99	87	72	93	96
7940247	88	95	79	55	99	96
7940248	89	98	88	73	93	99
7940250	78	82	72	61	81	87
7940251	93	100	83	71	90	96
7940252	84	92	85	70	89	97
7940253	86	90	80	72	91	101
7940254	89	92	69	68	90	92
7940255	84	93	90	69	91	100
7940256	80	80	79	66	89	94
7940257	73	78	78	61	77	83
7940260	96	108	64	81	101	97
Blank	85	93	102	73	93	100
LCS	98	106	100	76	92	101
MS	91	93	91	140*	97	99

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 06/30/2015 14:36

Group Number: 1571386

Surrogate Quality Control

MSD	79	85	79	72	83	86
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

Analysis Name: SVOA 8270D (microwave)
Batch number: 15175SLH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7940239	41*	4*	1*	72	91	97
7940240	67	36*	4*	70	90	98
7940241	54*	16*	2*	75	95	98
7940242	68	31*	2*	75	96	98
7940249	34*	2*	1*	74	93	96
Blank	85	93	106	72	95	102
LCS	93	101	101	76	93	97
MS	54*	16*	2*	75	95	98
MSD	68	31*	2*	75	96	98
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

Analysis Name: SVOA 8270D (microwave)
Batch number: 15178SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7940246	97	107	96	79	101	99
Blank	88	98	101	75	92	104
LCS	93	98	102	78	93	106
MS	71	76	72	60	77	78
MSD	73	77	77	61	81	81
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



379817

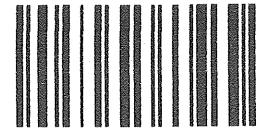


Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1571386 Sample # 7940239-60
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only																																																							
Client: <u>Neosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Concrete</u>		Total # of Containers		Preservation Codes				FSC: _____																																																							
Project Name/ID: <u>CHR0417</u>		PWSID #:						VOL (B760) SWG (B770) TAL Metals F, Hg				SCR#: <u>173474</u>																																																							
Project Manager: <u>Dave Kulczyk</u>		P.O. #:										Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other																																																							
Sampler: <u>Various</u>		Quote #:																																																																	
Name of state where samples were collected: <u>IN</u>												6 Remarks																																																							
2 Sample Identification		3 Collected		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Grab</th> <th>Composite</th> <th>Soil</th> <th>Water</th> <th>Other</th> <th>Total # of Containers</th> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td> </tr> </table>				Grab	Composite	Soil	Water					Other	Total # of Containers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Grab	Composite	Soil	Water					Other	Total # of Containers																																																										
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		Date	Time																																																																
<u>PLA-CS-George Bldg - D9</u>		<u>6/22/15</u>	<u>1150</u>																																																																
<u>PLA-CS-George Bldg - DB</u>		<u>6/22/15</u>	<u>1410</u>																																																																
<u>PLA-CS-George Bldg - DB MS</u>		<u>6/22/15</u>	<u>1410</u>																																																																
<u>PLA-CS-George Bldg - DB MSD</u>		<u>6/22/15</u>	<u>1410</u>																																																																
<u>PLA-S-Road-SB11-0-1</u>		<u>6/22/15</u>	<u>1025</u>																																																																
<u>PLA-S-Road-SB11-4-5</u>		<u>6/22/15</u>	<u>1055</u>																																																																
<u>PLA-S-Road-SB11-8-10</u>		<u>6/22/15</u>	<u>1040</u>																																																																
<u>PLA-S-GP-SB05-0-1</u>		<u>6/22/15</u>	<u>1215</u>																																																																
<u>PLA-S-GP-SB05-6-7</u>		<u>6/22/15</u>	<u>1220</u>																																																																
<u>Dup-0622-15-001</u>		<u>6/22/15</u>	<u>-</u>																																																																
7 Turnaround Time (TAT) Requested (please circle) Standard _____ Rush <u>5-Day TAT</u> (Rush TAT is subject to laboratory approval and surcharge.)				Relinquished by: _____		Date: <u>6/22/15</u> Time: <u>1600</u>		Received by: _____		Date: <u>6/22/15</u> Time: <u>16:58</u>		9 Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____ Date: <u>6/23/15</u> Time: <u>0920</u>																																																							
				Relinquished by: _____		Date: _____ Time: _____		Received by: _____		Date: _____ Time: _____																																																									
				Relinquished by: _____		Date: _____ Time: _____		Received by: _____		Date: _____ Time: _____																																																									
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				Relinquished by: _____		Date: _____ Time: _____		Received by: _____		Date: _____ Time: _____																																																									
				Relinquished by: _____		Date: _____ Time: _____		Received by: _____		Date: _____ Time: _____																																																									
8 Data Package Options (circle if required) Type I (EPA Level 3 Equivalent/non-CLP) <u>Level 4</u> Type VI (Raw Data Only) Type III (Reduced non-CLP) TX TRRP-13 NYSDEC Category A or B MA MCP CT RCP				EDD Required? Yes No				Relinquished by Commercial Carrier: _____																																																											
				If yes, format: _____				UPS _____ FedEx <input checked="" type="checkbox"/> Other _____																																																											
				Site-Specific QC (MS/MSD/Dup)? Yes No				Temperature upon receipt <u>05-10.2</u> °C																																																											

Environmental Analysis Request/Chain of Custody



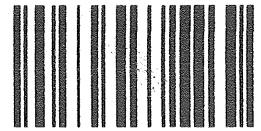
Lancaster Laboratories Environmental

Acct. # 20448 Group # 1571386 Sample # 7940239-60
 For Eurofins Lancaster Laboratories Environmental use only
 Instructions on reverse side correspond with circled numbers.

364940

1 Client Information			4 Matrix			5 Analysis Requested			For Lab Use Only					
Client: <u>Geosyntec Consultants</u>		Acct. #:	<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Imp B/LWC</u>			Total # of Containers <u>VOCs (0060)</u> <u>SVOCs (0070)</u> <u>TAL Metals + Hg</u>			FSC: _____					
Project Name/#: <u>CHR0417</u>		PWSID #:							SCR#: _____					
Project Manager: <u>Dave Kulczycki</u>		P.O. #:							Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other					
Sampler: <u>Various</u>		Quote #:												
Name of state where samples were collected: <u>IN</u>			6 Remarks 											
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Other	Total # of Containers	VOCs (0060)	SVOCs (0070)	TAL Metals + Hg	7 Turnaround Time (TAT) Requested (please circle)	
		Date	Time										Standard	
<u>VP-S-A0C9-SB07-0-1</u>		<u>6/22/15</u>	<u>1010</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>				<u>5-Day</u>	Relinquished by: <u>[Signature]</u> Date: <u>6/22/15</u> Time: <u>1600</u> Received by: <u>[Signature]</u> Date: <u>6/22/15</u> Time: <u>16:50</u>
<u>VP-S-A0C9-SB07-4-5</u>		<u>6/22/15</u>	<u>1015</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: <u>[Signature]</u> Date: <u>6/22/15</u> Time: <u>16:58</u> Received by: <u>[Signature]</u> Date: _____ Time: _____
<u>PLA-S-Road-SB12-0-1</u>		<u>6/22/15</u>	<u>1245</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
<u>PLA-S-Road-SB12-7-8</u>		<u>6/22/15</u>	<u>1050</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
<u>PLA-S-IP-SB04-0-1</u>		<u>6/22/15</u>	<u>1515</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
<u>PLA-S-CP-SB04-7-8</u>		<u>6/22/15</u>	<u>1530</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
<u>PLA-S-FS-SB09-0-1</u>		<u>6/22/15</u>	<u>1720</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: <u>[Signature]</u> Date: <u>6/23/15</u> Time: <u>0920</u>
<u>Dvp-062215-002</u>		<u>6/22/15</u>	<u>-</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
<u>TB-062215-CS</u>		<u>6/22/15</u>	<u>1740</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
<u>TB-062215-S</u>		<u>6/22/15</u>	<u>1740</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>11</u>					Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
8 Data Package Options (circle if required)			EDD Required? <u>Yes</u> No			Relinquished by Commercial Carrier:			Temperature upon receipt <u>0.5-6.2°C</u>					
Type I (Validation/non-CLP) Type VI (Raw Data Only)			If yes, format: _____			UPS _____ FedEx <input checked="" type="checkbox"/> Other _____								
Type III (Reduced non-CLP) TX TRRP-13			Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No											
Type IV (CLP SOW) MA MCP CT RCP			(If yes, indicate QC sample and submit triplicate sample volume.)											

Environmental Analysis Request/Chain of Custody



364941



Lancaster Laboratories Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1571386 Sample # 7940239-60
Instructions on reverse side correspond with circled numbers.

1 Client Information		4 Matrix				5 Analysis Requested					6 For Lab Use Only				
Client: <u>GeoSyntec Consultants</u>	Acct. #:	<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Other:	<input type="checkbox"/> Grab <input type="checkbox"/> Composite	<input checked="" type="checkbox"/> Soil	Total # of Containers	Preservation Codes					FSC: _____				
Project Name#: <u>CHR8417</u>	PWSID #:					5	X	X	X					SCR#: _____	
Project Manager: <u>Dave Kulczyk</u>	P.O. #:													Preservation Codes	
Sampler: <u>Various</u>	Quote #:													H=HCl	T=Thiosulfate
Name of state where samples were collected: <u>IN</u>														N=HNO ₃	B=NaOH
												S=H ₂ SO ₄	O=Other		
2 Sample Identification		3 Collected		6 Remarks											
	Date	Time													
<u>PLA-S-FS-SB04-6-7</u>	<u>6/22/15</u>	<u>1425</u>													
<u>DK</u>		<u>6/22/15</u>													
7 Turnaround Time (TAT) Requested (please circle)		Relinquished by	Date	Time	Received by	Date	Time								
Standard	<u>Rush</u>	<u>[Signature]</u>	<u>6/22/15</u>	<u>1600</u>	<u>[Signature]</u>	<u>6/22/15</u>	<u>16:58</u>								
(Rush TAT is subject to laboratory approval and surcharge.)	<u>5-Day TAT</u>	Relinquished by	Date	Time	Received by	Date	Time								
Date results are needed: _____		Relinquished by	Date	Time	Received by	Date	Time								
E-mail address: <u>dkulczyk</u>		Relinquished by	Date	Time	Received by	Date	Time								
8 Data Package Options (circle if required)		Relinquished by	Date	Time	Received by	Date	Time								
Type I (Validation/non-CLP)	Type VI (Raw Data Only)	Relinquished by	Date	Time	Received by	Date	Time								
Type III (Reduced non-CLP)	TX TRRP-13	EDD Required? <u>Yes</u> No		Relinquished by Commercial Carrier:											
<u>Type IV (CLP SOW)</u>	MA MCP CT RCP	If yes, format: _____		UPS _____ FedEx _____ Other _____											
		Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No		Temperature upon receipt <u>0.5-1.2</u> °C											
		(If yes, indicate QC sample and submit triplicate sample volume.)													

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 01, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/24/2015

Group Number: 1571667

SDG: NWP18

PO Number: 201506111740

State of Sample Origin: IN

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
RB-014 Grab Water	7941549
RB-015 Grab Water	7941550
TB-062315-RB Water	7941551

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Geosyntec

COPY TO

ELECTRONIC Geosyntec

COPY TO

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: RB-014 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941549
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:00

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB014 SDG#: NWP18-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	8 J	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-014 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941549
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:00

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB014 SDG#: NWP18-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzidine	92-87-5	N.D.	20	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: RB-014 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941549
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:00

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB014 SDG#: NWP18-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.

Metals	SW-846 6010B	mg/l	mg/l		
01743	Aluminum	7429-90-5	N.D.	0.0674	1
07044	Antimony	7440-36-0	N.D.	0.0051	1
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	0.00069 J	0.00033	1

Sample Description: RB-014 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941549
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:00

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB014 SDG#: NWP18-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	
07047	Beryllium	7440-41-7	N.D.	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	1.09	0.0334	1
07051	Chromium	7440-47-3	N.D.	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	N.D.	0.0334	1
01757	Magnesium	7439-95-4	0.0390 J	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	N.D.	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0020	1
		SW-846 6020	mg/l	mg/l	
06033	Copper	7440-50-8	N.D.	0.00050	1
06035	Lead	7439-92-1	N.D.	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 16:48	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 16:48	Kathrine K Muramatsu	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15176WAD026	06/26/2015 16:54	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafraan	1
01743	Aluminum	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07044	Antimony	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07035	Arsenic	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07046	Barium	SW-846 6010B	1	151751848002	06/28/2015 13:31	Suzanne M Will	1
07047	Beryllium	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07052	Cobalt	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1

Sample Description: RB-014 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941549
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:00

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB014 SDG#: NWP18-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	151751848002	06/28/2015 13:31	Suzanne M Will	1
07058	Manganese	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
07072	Zinc	SW-846 6010B	1	151751848002	06/27/2015 10:18	Eric L Eby	1
06033	Copper	SW-846 6020	1	151756050001A	06/29/2015 12:17	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151756050001A	06/29/2015 12:17	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151756050001B	06/29/2015 12:17	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151756050001A	06/29/2015 12:17	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151756050001A	06/29/2015 12:17	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151765713001	06/28/2015 06:43	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848002	06/25/2015 11:17	Christopher M Klumpp	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151756050001	06/25/2015 09:57	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151765713001	06/26/2015 11:54	Christopher M Klumpp	1

Sample Description: **RB-015 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7941550**
 LL Group # **1571667**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/23/2015 15:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB015 SDG#: NWP18-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-015 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941550
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB015 SDG#: NWP18-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzydine	92-87-5	N.D.	21	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: **RB-015 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7941550**
 LL Group # **1571667**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/23/2015 15:30

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB015 SDG#: NWP18-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
 The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial. Similar results were obtained in both trials.

Metals	SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674
07044	Antimony	7440-36-0	N.D.	0.0051
07035	Arsenic	7440-38-2	N.D.	0.0072
07046	Barium	7440-39-3	N.D.	0.00033

Sample Description: RB-015 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941550
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:30

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Submitted: 06/24/2015 09:20

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Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB015 SDG#: NWP18-02EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	
07047	Beryllium	7440-41-7	N.D.	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	0.211	0.0334	1
07051	Chromium	7440-47-3	N.D.	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	N.D.	0.0334	1
01757	Magnesium	7439-95-4	N.D.	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	N.D.	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0020	1
		SW-846 6020	mg/l	mg/l	
06033	Copper	7440-50-8	N.D.	0.00050	1
06035	Lead	7439-92-1	N.D.	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 17:10	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 17:10	Kathrine K Muramatsu	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15176WAD026	06/26/2015 17:23	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafraan	1
01743	Aluminum	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07044	Antimony	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07035	Arsenic	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07046	Barium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07047	Beryllium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	151751848002	06/28/2015 13:34	Suzanne M Will	1
07051	Chromium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07052	Cobalt	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1

Sample Description: RB-015 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941550
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:30

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

RB015 SDG#: NWP18-02EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07058	Manganese	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07061	Nickel	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07071	Vanadium	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
07072	Zinc	SW-846 6010B	1	151751848002	06/27/2015 10:22	Eric L Eby	1
06033	Copper	SW-846 6020	1	151756050001A	06/29/2015 12:20	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151756050001A	06/29/2015 12:20	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151756050001B	06/29/2015 12:20	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151756050001A	06/29/2015 12:20	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151756050001A	06/29/2015 12:20	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151765713001	06/28/2015 06:46	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151751848002	06/25/2015 11:17	Christopher M Klumpp	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151756050001	06/25/2015 09:57	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151765713001	06/26/2015 11:54	Christopher M Klumpp	1

Sample Description: TB-062315-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941551
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 10:48

Suite 103

Oakbrook IL 60523

TB23R SDG#: NWP18-03TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-062315-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941551
LL Group # 1571667
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:50

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/24/2015 09:20

Reported: 07/01/2015 10:48

TB23R SDG#: NWP18-03TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 17:31	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 17:31	Kathrine K Muramatsu	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:48

Group Number: 1571667

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Y151791AA	Sample number(s): 7941549-7941551							
Acetone	N.D.	6.	ug/l	84		55-129		
Benzene	N.D.	0.5	ug/l	110		78-120		
Bromobenzene	N.D.	1.	ug/l	107		80-120		
Bromochloromethane	N.D.	1.	ug/l	117		80-120		
Bromodichloromethane	N.D.	0.5	ug/l	100		73-120		
Bromoform	N.D.	0.5	ug/l	95		52-123		
Bromomethane	N.D.	0.5	ug/l	76		53-130		
2-Butanone	N.D.	3.	ug/l	97		54-133		
n-Butylbenzene	N.D.	1.	ug/l	105		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	104		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	101		80-120		
Carbon Disulfide	N.D.	1.	ug/l	78		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	110		74-130		
Chlorobenzene	N.D.	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.5	ug/l	69		56-120		
Chloroform	N.D.	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.5	ug/l	93		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	106		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	82		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	105		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	111		80-120		
Dibromomethane	N.D.	0.5	ug/l	108		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	98		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	94		72-127		
1,1-Dichloroethene	N.D.	0.5	ug/l	100		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	115		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	107		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	97		63-131		
1,1-Dichloropropene	N.D.	1.	ug/l	97		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	98		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	97		76-120		
Ethylbenzene	N.D.	0.5	ug/l	103		80-120		
2-Hexanone	N.D.	3.	ug/l	91		50-131		
Isopropylbenzene	N.D.	1.	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	104		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	92		51-124		
Methylene Chloride	N.D.	2.	ug/l	102		80-120		
n-Propylbenzene	N.D.	1.	ug/l	105		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:48

Group Number: 1571667

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	103		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	110		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	98		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	115		80-120		
Toluene	N.D.	0.5	ug/l	107		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	99		69-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	95		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	110		80-120		
Trichloroethene	N.D.	0.5	ug/l	111		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	93		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	104		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	103		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	105		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	85		69-120		
m+p-Xylene	N.D.	0.5	ug/l	107		80-120		
o-Xylene	N.D.	0.5	ug/l	100		80-120		

Batch number: 15176WAD026	Sample number(s): 7941549-7941550							
Acenaphthene	N.D.	0.1	ug/l	81	76*	80-112	7	30
Acenaphthylene	N.D.	0.1	ug/l	89	84	78-125	6	30
Anthracene	N.D.	0.1	ug/l	85	76*	82-116	10	30
Benzidine	N.D.	20.	ug/l	75	85	21-88	12	30
Benzo(a)anthracene	N.D.	0.1	ug/l	88	85	76-122	4	30
Benzo(a)pyrene	N.D.	0.1	ug/l	84	78	73-120	7	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	86	79	75-123	9	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	87	78	70-126	12	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	87	80	74-119	9	30
Benzoic acid	N.D.	6.	ug/l	29	20	10-97	36*	30
Benzyl alcohol	N.D.	10.	ug/l	87	86	54-115	1	30
4-Bromophenyl-phenylether	N.D.	0.5	ug/l	83	76	76-116	9	30
Butylbenzylphthalate	N.D.	2.	ug/l	70	61*	68-119	14	30
Di-n-butylphthalate	N.D.	2.	ug/l	79	68*	74-114	14	30
Carbazole	N.D.	0.5	ug/l	83	76*	79-115	9	30
4-Chloro-3-methylphenol	N.D.	0.5	ug/l	80	77	73-115	4	30
4-Chloroaniline	N.D.	2.	ug/l	76	74	44-114	3	30
bis(2-Chloroethoxy)methane	N.D.	0.5	ug/l	78	73*	77-115	6	30
bis(2-Chloroethyl) ether	N.D.	0.5	ug/l	76*	72*	78-112	5	30
2-Chloronaphthalene	N.D.	0.4	ug/l	79	76	69-112	4	30
2-Chlorophenol	N.D.	0.5	ug/l	77	72	70-111	7	30
4-Chlorophenyl-phenylether	N.D.	0.5	ug/l	83	78	76-113	6	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	ug/l	80	76	56-128	5	30
Chrysene	N.D.	0.1	ug/l	89	87	81-120	3	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	89	82	72-127	9	30
Dibenzofuran	N.D.	0.5	ug/l	83	77*	81-110	7	30
1,2-Dichlorobenzene	N.D.	0.5	ug/l	76	72	65-107	6	30
1,3-Dichlorobenzene	N.D.	0.5	ug/l	74	71	58-103	4	30
1,4-Dichlorobenzene	N.D.	0.5	ug/l	75	71	56-106	5	30
3,3'-Dichlorobenzidine	N.D.	2.	ug/l	74	92	39-111	23	30
2,4-Dichlorophenol	N.D.	0.5	ug/l	83	78	74-114	7	30
Diethylphthalate	N.D.	2.	ug/l	72	56*	70-118	24	30
2,4-Dimethylphenol	N.D.	0.5	ug/l	79	75	75-110	6	30
Dimethylphthalate	N.D.	2.	ug/l	54	40*	43-128	31*	30
4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l	78	69	53-134	13	30
2,4-Dinitrophenol	N.D.	10.	ug/l	50	57	31-129	13	30
2,4-Dinitrotoluene	N.D.	1.	ug/l	81	70*	77-124	14	30
2,6-Dinitrotoluene	N.D.	0.5	ug/l	84	80	80-119	5	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:48

Group Number: 1571667

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
bis(2-Ethylhexyl) phthalate	N.D.	2.	ug/l	90	88	72-122	2	30
Fluoranthene	N.D.	0.1	ug/l	85	79	76-117	7	30
Fluorene	N.D.	0.1	ug/l	84	78*	80-117	7	30
Hexachlorobenzene	N.D.	0.1	ug/l	82	75	73-118	9	30
Hexachlorobutadiene	N.D.	0.5	ug/l	73	70	42-110	4	30
Hexachlorocyclopentadiene	N.D.	5.	ug/l	68	62	10-119	10	30
Hexachloroethane	N.D.	1.	ug/l	71	68	43-108	4	30
Indeno(1,2,3-cd) pyrene	N.D.	0.1	ug/l	86	78	70-121	10	30
Isophorone	N.D.	0.5	ug/l	87	83	81-124	5	30
2-Methylnaphthalene	N.D.	0.1	ug/l	78	75	69-103	3	30
2-Methylphenol	N.D.	0.5	ug/l	75	69	66-112	8	30
4-Methylphenol	N.D.	0.5	ug/l	74	69	56-109	7	30
Naphthalene	N.D.	0.1	ug/l	79	75	75-108	5	30
2-Nitroaniline	N.D.	0.5	ug/l	79	74	71-121	6	30
3-Nitroaniline	N.D.	0.5	ug/l	73	71	58-111	3	30
4-Nitroaniline	N.D.	0.5	ug/l	74	72	66-110	2	30
Nitrobenzene	N.D.	0.5	ug/l	82	78	77-119	5	30
2-Nitrophenol	N.D.	0.5	ug/l	86	81	71-118	6	30
4-Nitrophenol	N.D.	10.	ug/l	45	45	20-89	1	30
N-Nitroso-di-n-propylamine	N.D.	0.5	ug/l	74	71	71-117	4	30
N-Nitrosodiphenylamine	N.D.	0.5	ug/l	143*	134*	80-115	7	30
Di-n-octylphthalate	N.D.	2.	ug/l	90	83	72-127	9	30
Pentachlorophenol	N.D.	1.	ug/l	42*	47*	50-121	10	30
Phenanthrene	N.D.	0.1	ug/l	81	74*	81-114	9	30
Phenol	N.D.	0.5	ug/l	46	43	25-80	7	30
Pyrene	N.D.	0.1	ug/l	79	74*	76-111	6	30
1,2,4-Trichlorobenzene	N.D.	0.5	ug/l	80	79	64-107	1	30
2,4,5-Trichlorophenol	N.D.	0.5	ug/l	83	76	76-116	9	30
2,4,6-Trichlorophenol	N.D.	0.5	ug/l	88	83	75-117	6	30

Batch number: 151751848002

Sample number(s): 7941549-7941550

Aluminum	N.D.	0.0674	mg/l	107		80-120
Antimony	N.D.	0.0051	mg/l	110		80-120
Arsenic	N.D.	0.0072	mg/l	108		80-120
Barium	N.D.	0.00033	mg/l	103		80-120
Beryllium	N.D.	0.00067	mg/l	106		80-120
Cadmium	N.D.	0.00033	mg/l	106		80-120
Calcium	0.0350 J	0.0334	mg/l	104		80-120
Chromium	N.D.	0.0013	mg/l	105		80-120
Cobalt	N.D.	0.0010	mg/l	107		80-120
Iron	N.D.	0.0334	mg/l	103		80-120
Magnesium	N.D.	0.0167	mg/l	102		80-120
Manganese	N.D.	0.00083	mg/l	105		80-120
Nickel	N.D.	0.0016	mg/l	108		80-120
Potassium	N.D.	0.133	mg/l	103		80-120
Sodium	N.D.	0.167	mg/l	103		80-120
Vanadium	N.D.	0.0019	mg/l	107		80-120
Zinc	N.D.	0.0020	mg/l	104		80-120

Batch number: 151756050001A

Sample number(s): 7941549-7941550

Copper	0.00080 J	0.00050	mg/l	101		80-120
Lead	0.000083 J	0.00008	mg/l	98		80-120
		2				
Silver	N.D.	0.00013	mg/l	98		80-120
Thallium	N.D.	0.00015	mg/l	93		80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571667

Reported: 07/01/2015 10:48

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 151756050001B	Sample number(s): 7941549-7941550							
Selenium	N.D.	0.00050	mg/l	100		80-120		
Batch number: 151765713001	Sample number(s): 7941549-7941550							
Mercury	N.D.	0.00005	mg/l	115		80-120		
		0						

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: Y151791AA	Sample number(s): 7941549-7941551 UNSPK: P934600								
Acetone	86	91	35-144	5	30				
Benzene	115	114	72-134	1	30				
Bromobenzene	108	109	82-115	1	30				
Bromochloromethane	122	121	76-134	1	30				
Bromodichloromethane	102	101	73-125	1	30				
Bromoform	91	89	48-118	3	30				
Bromomethane	81	80	47-129	2	30				
2-Butanone	91	91	44-135	0	30				
n-Butylbenzene	104	104	74-134	0	30				
sec-Butylbenzene	107	107	74-137	0	30				
tert-Butylbenzene	104	104	81-121	0	30				
Carbon Disulfide	85	82	53-149	3	30				
Carbon Tetrachloride	120	117	75-148	2	30				
Chlorobenzene	113	112	87-124	1	30				
Chloroethane	74	74	55-130	0	30				
Chloroform	112	110	81-134	1	30				
Chloromethane	102	102	61-125	0	30				
2-Chlorotoluene	108	108	82-118	1	30				
4-Chlorotoluene	106	106	84-122	0	30				
1,2-Dibromo-3-chloropropane	76	75	50-123	2	30				
Dibromochloromethane	105	101	74-116	4	30				
1,2-Dibromoethane	110	108	77-116	2	30				
Dibromomethane	108	108	83-119	0	30				
Dichlorodifluoromethane	110	109	58-156	1	30				
1,1-Dichloroethane	105	104	84-129	1	30				
1,2-Dichloroethane	96	94	63-142	1	30				
1,1-Dichloroethene	106	108	79-137	1	30				
cis-1,2-Dichloroethene	125	124	80-141	0	30				
trans-1,2-Dichloroethene	112	112	86-131	0	30				
1,2-Dichloropropane	109	107	83-124	2	30				
1,3-Dichloropropane	101	100	81-120	1	30				
2,2-Dichloropropane	102	101	69-135	1	30				
1,1-Dichloropropene	105	104	86-137	1	30				
cis-1,3-Dichloropropene	95	96	70-116	1	30				
trans-1,3-Dichloropropene	95	94	74-119	1	30				
Ethylbenzene	108	107	71-134	1	30				
2-Hexanone	86	86	38-131	1	30				
Isopropylbenzene	105	104	75-128	1	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:48

Group Number: 1571667

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
p-Isopropyltoluene	106	104	76-123	2	30				
Methyl Tertiary Butyl Ether	94	97	72-126	2	30				
4-Methyl-2-pentanone	88	89	45-128	1	30				
Methylene Chloride	102	101	78-133	1	30				
n-Propylbenzene	108	107	74-134	1	30				
Styrene	105	104	78-125	2	30				
1,1,1,2-Tetrachloroethane	112	110	80-123	2	30				
1,1,2,2-Tetrachloroethane	97	96	72-128	1	30				
Tetrachloroethene	123	120	80-128	2	30				
Toluene	111	110	80-125	2	30				
1,2,3-Trichlorobenzene	94	96	62-133	2	30				
1,1,1-Trichloroethane	103	100	69-140	3	30				
1,1,2-Trichloroethane	109	108	71-141	2	30				
Trichloroethene	125	120	88-133	2	30				
Trichlorofluoromethane	108	106	63-163	2	30				
1,2,3-Trichloropropane	99	102	76-118	2	30				
1,2,4-Trimethylbenzene	105	104	72-130	0	30				
1,3,5-Trimethylbenzene	106	105	65-132	1	30				
Vinyl Chloride	93	92	66-133	0	30				
m+p-Xylene	111	110	79-125	1	30				
o-Xylene	102	101	79-125	1	30				

Batch number:	Sample number(s):	UNSPK:	BKG:						
151751848002	7941549-7941550	P938927	P938927						
Aluminum	107	107	75-125	0	20	N.D.	N.D.	0 (1)	20
Antimony	111	110	75-125	1	20	N.D.	N.D.	0 (1)	20
Arsenic	109	108	75-125	0	20	N.D.	N.D.	0 (1)	20
Barium	103	102	75-125	1	20	0.0364	0.0375	3	20
Beryllium	105	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Cadmium	104	104	75-125	0	20	N.D.	N.D.	0 (1)	20
Calcium	100	100	75-125	0	20	7.49	7.60	1	20
Chromium	104	104	75-125	1	20	N.D.	N.D.	0 (1)	20
Cobalt	105	106	75-125	1	20	0.0099	0.0100	1 (1)	20
Iron	124	118	75-125	1	20	3.99	4.13	3	20
Magnesium	100	100	75-125	0	20	1.25	1.26	1	20
Manganese	103	102	75-125	1	20	0.0639	0.0639	0	20
Nickel	106	107	75-125	1	20	0.0027 J	0.0030 J	8 (1)	20
Potassium	101	102	75-125	0	20	2.11	2.13	1 (1)	20
Sodium	102	103	75-125	0	20	11.0	11.2	2	20
Vanadium	106	106	75-125	0	20	N.D.	N.D.	0 (1)	20
Zinc	104	104	75-125	1	20	0.0773	0.0799	3 (1)	20

Batch number:	Sample number(s):	UNSPK:	BKG:						
151756050001A	7941549-7941550	P936860	P936860						
Copper	98	98	75-125	0	20	N.D.	N.D.	0 (1)	20
Lead	106	102	75-125	3	20	N.D.	N.D.	0 (1)	20
Silver	85	84	75-125	1	20	N.D.	N.D.	0 (1)	20
Thallium	103	104	75-125	1	20	N.D.	N.D.	0 (1)	20

Batch number:	Sample number(s):	UNSPK:	BKG:						
151756050001B	7941549-7941550	P936860	P936860						
Selenium	48*	54*	75-125	11	20	N.D.	N.D.	0 (1)	20

Batch number:	Sample number(s):	UNSPK:	BKG:						
151765713001	7941549-7941550	P942295	P942295						
Mercury	125*	120	80-120	4	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 10:48

Group Number: 1571667

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
----------------------	--------------------------	---------------------------	--------------------------------	------------	---------------------------	---------------------------	--------------------------	------------------------------

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: Y151791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7941549	113	111	97	84
7941550	113	112	96	85
7941551	115	111	97	85
Blank	109	108	97	86
LCS	102	104	100	97
MS	104	105	101	97
MSD	103	109	99	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TCL SW846 8270D Water
Batch number: 15176WAD026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7941549	42	50	63	84	85	88
7941550	43	63	78	83	84	87
Blank	39	59	83	84	82	88
LCS	45	65	89	88	85	86
LCSD	43	60	82	83	79	79
Limits:	10-82	10-107	23-145	60-123	61-112	35-144

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



380541



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1571667 Sample # 7941549-51
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only											
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Other: <u>Equipment Wash</u>	<input type="checkbox"/> Soil <input type="checkbox"/> NPDES <input type="checkbox"/> Other:	Total # of Containers <u>8</u>	Preservation Codes				FSC: _____	SCR#: _____											
Project Name/#: <u>CH28417</u>		PWSID #:					VOCs 8260B SVOCs 8270D TAL Metals +Hg	VOCs 8260B SVOCs 8270D TAL Metals +Hg	Preservation Codes				H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other										
Project Manager: <u>Dave Kulczycki</u>		P.O. #:							6 Remarks														
Sampler: <u>Various</u>		Quote #:																					
Name of state where samples were collected: <u>IN</u>																							
2 Sample Identification		3 Collected		4 Matrix		5 Analysis Requested		6 Remarks		7 Turnaround Time (TAT) Requested													
		Date	Time	Grab	Composite	Soil	Water	Other	Total # of Containers														
<u>RB-014</u>		<u>06/23/15</u>	<u>1500</u>	<u>X</u>					<u>8</u>	<u>X</u>	<u>X</u>	<u>X</u>											
<u>RB-015</u>		<u>06/23/15</u>	<u>1530</u>	<u>X</u>					<u>8</u>	<u>X</u>	<u>X</u>	<u>X</u>											
<u>TB-062315-RB</u>		<u>6/23/15</u>	<u>1550</u>	<u>X</u>			<u>X</u>		<u>2</u>	<u>X</u>													
7 Turnaround Time (TAT) Requested (please circle)		Standard		Rush <u>5-day TAT</u>		Relinquished by		Date		Time		Received by		Date		Time							
						<u>[Signature]</u>		<u>23 Jun 2015</u>		<u>10:50</u>		<u>[Signature]</u>		<u>6/23/15</u>		<u>16:55</u>							
Date results are needed: _____						<u>[Signature]</u>		<u>6/23/15</u>		<u>17:11</u>		<u>[Signature]</u>											
E-mail address: <u>dkulczycki@geosyntec.com</u>						<u>[Signature]</u>						<u>[Signature]</u>		<u>6/24/15</u>		<u>09:26</u>							
8 Data Package Options (circle if required)		Type I (EPA Level 3 Equivalent/non-CLP)		Type VI (Raw Data Only)		Type III (Reduced non-CLP)		TX TRRP-13		NYSDEC Category A or B		MA MCP		CT RCP		EDD Required? <u>Yes</u> No		Relinquished by Commercial Carrier:		UPS _____ FedEx <u>✓</u> Other _____		Temperature upon receipt <u>5.3-0.6C</u>	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 02, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/24/2015

Group Number: 1571668

SDG: NWP19

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

PLA-GTW-FS-SB09 Grab Groundwater
PLA-GTW-ROAD-SB11 Grab Groundwater
VP-GTW-SWMU6-SB32 Grab Groundwater
VP-GTW-SWMU4-SB31 Grab Groundwater
TB-62315-GTW Water

Lancaster Labs (LL)

7941552
7941553
7941554
7941555
7941556

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: PLA-GTW-FS-SB09 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941552
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:55

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PFS09 SDG#: NWP19-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: PLA-GTW-FS-SB09 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941552
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:55

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PFS09 SDG#: NWP19-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 18:35	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 18:35	Kathrine K Muramatsu	1
13624	18 PAHs	SW-846 8270D	1	15176WAD026	06/26/2015 17:53	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafran	1

Sample Description: PLA-GTW-ROAD-SB11 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941553
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PRD11 SDG#: NWP19-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	7 J	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	0.7 J	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: PLA-GTW-ROAD-SB11 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941553
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PRD11 SDG#: NWP19-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 18:56	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 18:56	Kathrine K Muramatsu	1
13624	18 PAHs	SW-846 8270D	1	15176WAD026	06/26/2015 18:22	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafran	1

Sample Description: VP-GTW-SWMU6-SB32 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941554
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PS632 SDG#: NWP19-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-SWMU6-SB32 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941554
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PS632 SDG#: NWP19-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is compliant. However, the sample surrogates are outside QC acceptance limits in the re-extraction. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 19:17	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 19:17	Kathrine K Muramatsu	1

Sample Description: VP-GTW-SWMU6-SB32 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941554
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

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Submitted: 06/24/2015 09:20

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Oakbrook IL 60523

PS632 SDG#: NWP19-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13624	18 PAHs	SW-846 8270D	1	15176WAD026	06/26/2015 18:51	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafran	1

Sample Description: VP-GTW-SWMU4-SB31 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941555
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:40

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PS431 SDG#: NWP19-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-SWMU4-SB31 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941555
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:40

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

PS431 SDG#: NWP19-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.3 J	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	0.2 J	0.1	1
13624	Benzo(a)anthracene	56-55-3	0.3 J	0.1	1
13624	Benzo(a)pyrene	50-32-8	0.3 J	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	0.3 J	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	0.1 J	0.1	1
13624	Chrysene	218-01-9	0.4 J	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	0.8	0.1	1
13624	Fluorene	86-73-7	0.3 J	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.2 J	0.1	1
13624	Naphthalene	91-20-3	0.4 J	0.1	1
13624	Phenanthrene	85-01-8	0.9	0.1	1
13624	Pyrene	129-00-0	0.6	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is compliant. However, the sample surrogates are outside QC acceptance limits in the re-extraction. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 19:38	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 19:38	Kathrine K Muramatsu	1

Sample Description: VP-GTW-SWMU4-SB31 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941555
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:40

Geosyntec

1420 Kensington Road

Submitted: 06/24/2015 09:20

Suite 103

Reported: 07/02/2015 08:27

Oakbrook IL 60523

PS431 SDG#: NWP19-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
13624	18 PAHs	SW-846 8270D	1	15176WAD026	06/26/2015 19:20	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15176WAD026	06/25/2015 16:00	Ryan A Schafran	1

Sample Description: TB-62315-GTW Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941556
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 16:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

TBGTW SDG#: NWP19-05TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-62315-GTW Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941556
LL Group # 1571668
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 16:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/02/2015 08:27

Suite 103

Oakbrook IL 60523

TBGTW SDG#: NWP19-05TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 17:52	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 17:52	Kathrine K Muramatsu	1

REVISED

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 08:27

Group Number: 1571668

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: Y151791AA	Sample number(s): 7941552-7941556							
Acetone	N.D.	6.	ug/l	84		55-129		
Benzene	N.D.	0.5	ug/l	110		78-120		
Bromobenzene	N.D.	1.	ug/l	107		80-120		
Bromochloromethane	N.D.	1.	ug/l	117		80-120		
Bromodichloromethane	N.D.	0.5	ug/l	100		73-120		
Bromoform	N.D.	0.5	ug/l	95		52-123		
Bromomethane	N.D.	0.5	ug/l	76		53-130		
2-Butanone	N.D.	3.	ug/l	97		54-133		
n-Butylbenzene	N.D.	1.	ug/l	105		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	104		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	101		80-120		
Carbon Disulfide	N.D.	1.	ug/l	78		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	110		74-130		
Chlorobenzene	N.D.	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.5	ug/l	69		56-120		
Chloroform	N.D.	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.5	ug/l	93		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	106		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	82		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	105		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	111		80-120		
Dibromomethane	N.D.	0.5	ug/l	108		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	98		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	94		72-127		
1,1-Dichloroethene	N.D.	0.5	ug/l	100		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	115		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	107		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	97		63-131		
1,1-Dichloropropene	N.D.	1.	ug/l	97		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	98		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	97		76-120		
Ethylbenzene	N.D.	0.5	ug/l	103		80-120		
2-Hexanone	N.D.	3.	ug/l	91		50-131		
Isopropylbenzene	N.D.	1.	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	104		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	92		51-124		
Methylene Chloride	N.D.	2.	ug/l	102		80-120		
n-Propylbenzene	N.D.	1.	ug/l	105		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571668

Reported: 07/02/2015 08:27

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	103		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	110		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	98		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	115		80-120		
Toluene	N.D.	0.5	ug/l	107		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	99		69-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	95		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	110		80-120		
Trichloroethene	N.D.	0.5	ug/l	111		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	93		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	104		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	103		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	105		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	85		69-120		
m+p-Xylene	N.D.	0.5	ug/l	107		80-120		
o-Xylene	N.D.	0.5	ug/l	100		80-120		

Batch number: 15176WAD026

Sample number(s): 7941552-7941555

Acenaphthene	N.D.	0.1	ug/l	81	76*	80-112	7	30
Acenaphthylene	N.D.	0.1	ug/l	89	84	78-125	6	30
Anthracene	N.D.	0.1	ug/l	85	76*	82-116	10	30
Benzo(a)anthracene	N.D.	0.1	ug/l	88	85	76-122	4	30
Benzo(a)pyrene	N.D.	0.1	ug/l	84	78	73-120	7	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	86	79	75-123	9	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	87	78	70-126	12	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	87	80	74-119	9	30
Chrysene	N.D.	0.1	ug/l	89	87	81-120	3	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	89	82	72-127	9	30
Fluoranthene	N.D.	0.1	ug/l	85	79	76-117	7	30
Fluorene	N.D.	0.1	ug/l	84	78*	80-117	7	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	86	78	70-121	10	30
Naphthalene	N.D.	0.1	ug/l	79	75	75-108	5	30
Phenanthrene	N.D.	0.1	ug/l	81	74*	81-114	9	30
Pyrene	N.D.	0.1	ug/l	79	74*	76-111	6	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: Y151791AA	Sample number(s): 7941552-7941556 UNSPK: P934600								
Acetone	86	91	35-144	5	30				
Benzene	115	114	72-134	1	30				
Bromobenzene	108	109	82-115	1	30				
Bromochloromethane	122	121	76-134	1	30				
Bromodichloromethane	102	101	73-125	1	30				
Bromoform	91	89	48-118	3	30				
Bromomethane	81	80	47-129	2	30				
2-Butanone	91	91	44-135	0	30				
n-Butylbenzene	104	104	74-134	0	30				
sec-Butylbenzene	107	107	74-137	0	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 08:27

Group Number: 1571668

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
tert-Butylbenzene	104	104	81-121	0	30				
Carbon Disulfide	85	82	53-149	3	30				
Carbon Tetrachloride	120	117	75-148	2	30				
Chlorobenzene	113	112	87-124	1	30				
Chloroethane	74	74	55-130	0	30				
Chloroform	112	110	81-134	1	30				
Chloromethane	102	102	61-125	0	30				
2-Chlorotoluene	108	108	82-118	1	30				
4-Chlorotoluene	106	106	84-122	0	30				
1,2-Dibromo-3-chloropropane	76	75	50-123	2	30				
Dibromochloromethane	105	101	74-116	4	30				
1,2-Dibromoethane	110	108	77-116	2	30				
Dibromomethane	108	108	83-119	0	30				
Dichlorodifluoromethane	110	109	58-156	1	30				
1,1-Dichloroethane	105	104	84-129	1	30				
1,2-Dichloroethane	96	94	63-142	1	30				
1,1-Dichloroethene	106	108	79-137	1	30				
cis-1,2-Dichloroethene	125	124	80-141	0	30				
trans-1,2-Dichloroethene	112	112	86-131	0	30				
1,2-Dichloropropane	109	107	83-124	2	30				
1,3-Dichloropropane	101	100	81-120	1	30				
2,2-Dichloropropane	102	101	69-135	1	30				
1,1-Dichloropropene	105	104	86-137	1	30				
cis-1,3-Dichloropropene	95	96	70-116	1	30				
trans-1,3-Dichloropropene	95	94	74-119	1	30				
Ethylbenzene	108	107	71-134	1	30				
2-Hexanone	86	86	38-131	1	30				
Isopropylbenzene	105	104	75-128	1	30				
p-Isopropyltoluene	106	104	76-123	2	30				
Methyl Tertiary Butyl Ether	94	97	72-126	2	30				
4-Methyl-2-pentanone	88	89	45-128	1	30				
Methylene Chloride	102	101	78-133	1	30				
n-Propylbenzene	108	107	74-134	1	30				
Styrene	105	104	78-125	2	30				
1,1,1,2-Tetrachloroethane	112	110	80-123	2	30				
1,1,2,2-Tetrachloroethane	97	96	72-128	1	30				
Tetrachloroethene	123	120	80-128	2	30				
Toluene	111	110	80-125	2	30				
1,2,3-Trichlorobenzene	94	96	62-133	2	30				
1,1,1-Trichloroethane	103	100	69-140	3	30				
1,1,2-Trichloroethane	109	108	71-141	2	30				
Trichloroethene	125	120	88-133	2	30				
Trichlorofluoromethane	108	106	63-163	2	30				
1,2,3-Trichloropropane	99	102	76-118	2	30				
1,2,4-Trimethylbenzene	105	104	72-130	0	30				
1,3,5-Trimethylbenzene	106	105	65-132	1	30				
Vinyl Chloride	93	92	66-133	0	30				
m+p-Xylene	111	110	79-125	1	30				
o-Xylene	102	101	79-125	1	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

REVISED

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 08:27

Group Number: 1571668

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: Y151791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7941552	114	111	97	85
7941553	113	110	97	85
7941554	115	111	97	85
7941555	114	111	97	85
7941556	114	111	97	85
Blank	109	108	97	86
LCS	102	104	100	97
MS	104	105	101	97
MSD	103	109	99	96
Limits:	80-116	77-113	80-113	78-113

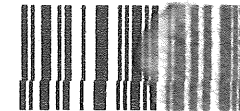
Analysis Name: 18 PAHs
Batch number: 15176WAD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7941552	79	77	75
7941553	86	84	80
7941554	94	93	86
7941555	84	84	81
Blank	84	82	88
LCS	88	85	86
LCSD	83	79	79
Limits:	60-123	61-112	35-144

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



366254



Lancaster Laboratories
Environmental

Acct. # 20448 Group # 1571668 Sample # 7941552-56
For Eurofins Lancaster Laboratories Environmental use only
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix			5 Analysis Requested										For Lab Use Only					
Client: GEOSYNTEC CONSULTANTS		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input checked="" type="checkbox"/> Ground <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> Other:	Preservation Codes										FSC: _____ SCR#: _____							
Project Name/ #: CHR8417		PWSID #:			<table border="1"><tr><td colspan="2">Total # of Containers</td></tr><tr><td>VOCs</td><td>82608</td></tr><tr><td>SVOCs</td><td>82700</td></tr></table>										Total # of Containers		VOCs	82608	SVOCs	82700	Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other	
Total # of Containers																						
VOCs	82608																					
SVOCs	82700																					
Project Manager: DAVE KULCZYCKI		P.O. #:																				
Sampler: VARIOUS		Quote #:																				
Name of state where samples were collected: IN				<input type="checkbox"/> Soil											6 Remarks							
2 Sample Identification		Collected		3 Grab	Composite																	
		Date	Time																			
PLA-GTW-FS-SB09		6/23/15	10:55	X		X																
PLA-GTW-ROAD-SB11		6/23/15	12:10	X		X																
VP-GTW-SWMM 5-SB32		6/23/15	14:10	X		X																
VP-GTW-SWMM 4-SB31		6/23/15	15:40	X		X																
TB-062315-GTW		6/23/15	16:20	X		X																
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time	9										
Standard						06/23/15	16:35			6/23/15	10:55											
Rush <u>5 day TAT</u>						Relinquished by				Date	Time	Received by		Date	Time							
(Rush TAT is subject to laboratory approval and surcharge.)																						
Date results are needed: _____				Relinquished by		Date	Time	Received by		Date	Time											
E-mail address: d.kulczycki@geosyntec.com				Relinquished by		Date	Time	Received by		Date	Time											
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by		Date	Time											
Type I (Validation/non-CLP)						EDD Required? Yes <u>No</u>		Relinquished by Commercial Carrier:														
Type VI (Raw Data Only)						If yes, format: _____		UPS _____ FedEx <u>✓</u> Other _____														
Type III (Reduced non-CLP)						Site-Specific QC (MS/MSD/Dup)? Yes <u>No</u>		Temperature upon receipt <u>0.3-0.6°C</u>														
NYSDEC Category A or B MA MCP CT RCP				(If yes, indicate QC sample and submit triplicate sample volume.)																		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 01, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/24/2015

Group Number: 1571670

SDG: NWP20

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

PLA-S-FS-SB08-0-1 Grab Soil

PLA-S-FS-SB08-0-1-MS Grab Soil

PLA-S-FS-SB08-0-1-MSD Grab Soil

PLA-S-FS-SB08-0-1-DUP Grab Soil

PLA-S-FS-SB08-7-8 Grab Soil

PLA-S-FS-SB08-18-19 Grab Soil

PLA-S-FS-SB07-0-1 Grab Soil

PLA-S-FS-SB07-7-8 Grab Soil

PLA-S-FS-SB07-15-16 Grab Soil

Lancaster Labs (LL)

7941563

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The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Geosyntec

COPY TO

ELECTRONIC Geosyntec

COPY TO

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: PLA-S-FS-SB08-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941563
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.95
10237	Benzene	71-43-2	N.D.	0.5	0.95
10237	Bromobenzene	108-86-1	N.D.	1	0.95
10237	Bromochloromethane	74-97-5	N.D.	1	0.95
10237	Bromodichloromethane	75-27-4	N.D.	1	0.95
10237	Bromoform	75-25-2	N.D.	1	0.95
10237	Bromomethane	74-83-9	N.D.	2	0.95
10237	2-Butanone	78-93-3	N.D.	4	0.95
10237	n-Butylbenzene	104-51-8	N.D.	1	0.95
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.95
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.95
10237	Carbon Disulfide	75-15-0	N.D.	1	0.95
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.95
10237	Chlorobenzene	108-90-7	N.D.	1	0.95
10237	Chloroethane	75-00-3	N.D.	2	0.95
10237	Chloroform	67-66-3	N.D.	1	0.95
10237	Chloromethane	74-87-3	N.D.	2	0.95
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.95
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.95
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.95
10237	Dibromochloromethane	124-48-1	N.D.	1	0.95
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.95
10237	Dibromomethane	74-95-3	N.D.	1	0.95
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.95
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.95
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.95
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.95
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.95
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.95
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.95
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.95
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.95
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.95
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.95
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.95
10237	Ethylbenzene	100-41-4	N.D.	1	0.95
10237	2-Hexanone	591-78-6	N.D.	3	0.95
10237	Isopropylbenzene	98-82-8	N.D.	1	0.95
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.95
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.95
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.95
10237	Methylene Chloride	75-09-2	N.D.	2	0.95
10237	n-Propylbenzene	103-65-1	N.D.	1	0.95
10237	Styrene	100-42-5	N.D.	1	0.95
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.95
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.95
10237	Tetrachloroethene	127-18-4	N.D.	1	0.95
10237	Toluene	108-88-3	N.D.	1	0.95
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.95
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.95

Sample Description: PLA-S-FS-SB08-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941563
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.95
10237	Trichloroethene	79-01-6	N.D.	1	0.95
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.95
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.95
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.95
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.95
10237	Vinyl Chloride	75-01-4	N.D.	1	0.95
10237	m+p-Xylene	179601-23-1	N.D.	1	0.95
10237	o-Xylene	95-47-6	N.D.	1	0.95
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benizidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	13 J	4	1
10726	Benzo(a)pyrene	50-32-8	15 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	24	4	1
10726	Benzo(g,h,i)perylene	191-24-2	16 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	14 J	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	74	1
10726	Di-n-butylphthalate	84-74-2	N.D.	74	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	17 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	5 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	74	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	74	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-FS-SB08-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941563
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

1420 Kensington Road

Submitted: 06/24/2015 09:20

Suite 103

Reported: 07/01/2015 18:28

Oakbrook IL 60523

PFS80 SDG#: NWP20-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	74	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	74	1
10726	Fluoranthene	206-44-0	24	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	10 J	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	74	1
10726	4-Nitroaniline	100-01-6	N.D.	74	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	74	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	12 J	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	20	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	9,400	5.03	1
06944	Antimony	7440-36-0	1.20 J	0.366	1
06935	Arsenic	7440-38-2	23.7	0.710	1
06946	Barium	7440-39-3	104	0.0366	1

Sample Description: PLA-S-FS-SB08-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941563
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06947	Beryllium	7440-41-7	0.630	0.0743	1
06949	Cadmium	7440-43-9	1.57	0.0366	1
01650	Calcium	7440-70-2	3,890	4.20	1
06951	Chromium	7440-47-3	25.4	0.122	1
06952	Cobalt	7440-48-4	7.34	0.106	1
06953	Copper	7440-50-8	29.6	0.366	1
01654	Iron	7439-89-6	24,700	3.70	1
06955	Lead	7439-92-1	134	0.554	1
01657	Magnesium	7439-95-4	2,440	1.85	1
06958	Manganese	7439-96-5	583	0.0920	1
06961	Nickel	7440-02-0	17.6	0.166	1
01662	Potassium	7440-09-7	1,300	14.4	1
06936	Selenium	7782-49-2	2.45	0.488	1
06966	Silver	7440-22-4	0.864	0.211	1
01667	Sodium	7440-23-5	71.7 J	18.5	1
06925	Thallium	7440-28-0	N.D.	0.887	1
06971	Vanadium	7440-62-2	25.5	0.101	1
06972	Zinc	7440-66-6	277	0.288	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0399 J	0.0106	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	10.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781AB	06/28/2015 12:28	Angela D Sneeringer	0.95
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:25	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:25	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 08:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/27/2015 00:33	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1

Sample Description: PLA-S-FS-SB08-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941563
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1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015 11:30	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015 15:06	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015 09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015 12:00	James L Mertz	1
00111	Moisture	SM 2540 G-1997	2	15181820001A	07/01/2015 00:18	Scott W Freisher	1

Sample Description: PLA-S-FS-SB08-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941564
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	170	6	0.81
10237	Benzene	71-43-2	20	0.5	0.81
10237	Bromobenzene	108-86-1	22	0.9	0.81
10237	Bromochloromethane	74-97-5	21	0.9	0.81
10237	Bromodichloromethane	75-27-4	19	0.9	0.81
10237	Bromoform	75-25-2	17	0.9	0.81
10237	Bromomethane	74-83-9	19	2	0.81
10237	2-Butanone	78-93-3	120	4	0.81
10237	n-Butylbenzene	104-51-8	22	0.9	0.81
10237	sec-Butylbenzene	135-98-8	25	0.9	0.81
10237	tert-Butylbenzene	98-06-6	25	0.9	0.81
10237	Carbon Disulfide	75-15-0	19	0.9	0.81
10237	Carbon Tetrachloride	56-23-5	21	0.9	0.81
10237	Chlorobenzene	108-90-7	20	0.9	0.81
10237	Chloroethane	75-00-3	18	2	0.81
10237	Chloroform	67-66-3	20	0.9	0.81
10237	Chloromethane	74-87-3	20	2	0.81
10237	2-Chlorotoluene	95-49-8	23	0.9	0.81
10237	4-Chlorotoluene	106-43-4	22	0.9	0.81
10237	1,2-Dibromo-3-chloropropane	96-12-8	18	2	0.81
10237	Dibromochloromethane	124-48-1	19	0.9	0.81
10237	1,2-Dibromoethane	106-93-4	20	0.9	0.81
10237	Dibromomethane	74-95-3	19	0.9	0.81
10237	Dichlorodifluoromethane	75-71-8	22	2	0.81
10237	1,1-Dichloroethane	75-34-3	20	0.9	0.81
10237	1,2-Dichloroethane	107-06-2	19	0.9	0.81
10237	1,1-Dichloroethene	75-35-4	21	0.9	0.81
10237	cis-1,2-Dichloroethene	156-59-2	20	0.9	0.81
10237	trans-1,2-Dichloroethene	156-60-5	21	0.9	0.81
10237	1,2-Dichloropropane	78-87-5	20	0.9	0.81
10237	1,3-Dichloropropane	142-28-9	20	0.9	0.81
10237	2,2-Dichloropropane	594-20-7	21	0.9	0.81
10237	1,1-Dichloropropene	563-58-6	19	0.9	0.81
10237	cis-1,3-Dichloropropene	10061-01-5	18	0.9	0.81
10237	trans-1,3-Dichloropropene	10061-02-6	20	0.9	0.81
10237	Ethylbenzene	100-41-4	21	0.9	0.81
10237	2-Hexanone	591-78-6	88	3	0.81
10237	Isopropylbenzene	98-82-8	21	0.9	0.81
10237	p-Isopropyltoluene	99-87-6	24	0.9	0.81
10237	Methyl Tertiary Butyl Ether	1634-04-4	19	0.5	0.81
10237	4-Methyl-2-pentanone	108-10-1	89	3	0.81
10237	Methylene Chloride	75-09-2	21	2	0.81
10237	n-Propylbenzene	103-65-1	26	0.9	0.81
10237	Styrene	100-42-5	18	0.9	0.81
10237	1,1,1,2-Tetrachloroethane	630-20-6	20	0.9	0.81
10237	1,1,2,2-Tetrachloroethane	79-34-5	24	0.9	0.81
10237	Tetrachloroethene	127-18-4	22	0.9	0.81
10237	Toluene	108-88-3	22	0.9	0.81
10237	1,2,3-Trichlorobenzene	87-61-6	8	0.9	0.81
10237	1,1,1-Trichloroethane	71-55-6	20	0.9	0.81

Sample Description: PLA-S-FS-SB08-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941564
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	21	0.9	0.81
10237	Trichloroethene	79-01-6	20	0.9	0.81
10237	Trichlorofluoromethane	75-69-4	20	2	0.81
10237	1,2,3-Trichloropropane	96-18-4	25	0.9	0.81
10237	1,2,4-Trimethylbenzene	95-63-6	23	0.9	0.81
10237	1,3,5-Trimethylbenzene	108-67-8	25	0.9	0.81
10237	Vinyl Chloride	75-01-4	21	0.9	0.81
10237	m+p-Xylene	179601-23-1	42	0.9	0.81
10237	o-Xylene	95-47-6	20	0.9	0.81
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,700	4	1
10726	Acenaphthylene	208-96-8	1,900	4	1
10726	Anthracene	120-12-7	1,800	4	1
10726	Benzidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	1,700	4	1
10726	Benzo(a)pyrene	50-32-8	1,700	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,700	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,800	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,600	4	1
10726	Benzoic acid	65-85-0	2,500	190	1
10726	Benzyl alcohol	100-51-6	1,600	190	1
10726	4-Bromophenyl-phenylether	101-55-3	1,800	19	1
10726	Butylbenzylphthalate	85-68-7	1,600	75	1
10726	Di-n-butylphthalate	84-74-2	1,700	75	1
10726	Carbazole	86-74-8	1,700	19	1
10726	4-Chloro-3-methylphenol	59-50-7	1,500	19	1
10726	4-Chloroaniline	106-47-8	840	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,600	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,500	19	1
10726	2-Chloronaphthalene	91-58-7	1,800	8	1
10726	2-Chlorophenol	95-57-8	1,800	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,600	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,500	19	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	1,600	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,700	4	1
10726	Dibenzofuran	132-64-9	1,700	19	1
10726	1,2-Dichlorobenzene	95-50-1	1,600	19	1
10726	1,3-Dichlorobenzene	541-73-1	1,500	19	1
10726	1,4-Dichlorobenzene	106-46-7	1,500	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	740	110	1
10726	2,4-Dichlorophenol	120-83-2	1,700	19	1
10726	Diethylphthalate	84-66-2	1,600	75	1
10726	2,4-Dimethylphenol	105-67-9	1,200	19	1
10726	Dimethylphthalate	131-11-3	1,600	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	1,800	190	1

Sample Description: PLA-S-FS-SB08-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941564
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	3,100	340	1
10726	2,4-Dinitrotoluene	121-14-2	1,700	75	1
10726	2,6-Dinitrotoluene	606-20-2	1,700	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	75	1
10726	Fluoranthene	206-44-0	1,600	4	1
10726	Fluorene	86-73-7	1,700	4	1
10726	Hexachlorobenzene	118-74-1	1,800	4	1
10726	Hexachlorobutadiene	87-68-3	1,500	19	1
10726	Hexachlorocyclopentadiene	77-47-4	2,600	190	1
10726	Hexachloroethane	67-72-1	1,600	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	4	1
10726	Isophorone	78-59-1	1,500	19	1
10726	2-Methylnaphthalene	91-57-6	1,600	4	1
10726	2-Methylphenol	95-48-7	1,500	19	1
10726	4-Methylphenol	106-44-5	1,400	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	1,700	4	1
10726	2-Nitroaniline	88-74-4	1,900	19	1
10726	3-Nitroaniline	99-09-2	1,700	75	1
10726	4-Nitroaniline	100-01-6	1,500	75	1
10726	Nitrobenzene	98-95-3	1,400	19	1
10726	2-Nitrophenol	88-75-5	1,800	19	1
10726	4-Nitrophenol	100-02-7	1,300	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,300	19	1
10726	N-Nitrosodiphenylamine	86-30-6	1,700	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	1,800	75	1
10726	Pentachlorophenol	87-86-5	1,600	37	1
10726	Phenanthrene	85-01-8	1,800	4	1
10726	Phenol	108-95-2	1,500	19	1
10726	Pyrene	129-00-0	1,700	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,700	19	1
10726	2,4,5-Trichlorophenol	95-95-4	1,700	19	1
10726	2,4,6-Trichlorophenol	88-06-2	1,800	19	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,900	4.94	1
06944	Antimony	7440-36-0	46.0	0.359	1
06935	Arsenic	7440-38-2	29.2	0.696	1
06946	Barium	7440-39-3	316	0.0359	1
06947	Beryllium	7440-41-7	6.16	0.0728	1
06949	Cadmium	7440-43-9	6.35	0.0359	1
01650	Calcium	7440-70-2	11,200	4.12	1
06951	Chromium	7440-47-3	42.7	0.120	1
06952	Cobalt	7440-48-4	59.2	0.104	1
06953	Copper	7440-50-8	53.9	0.359	1

Sample Description: PLA-S-FS-SB08-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941564
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

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1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	16,400	3.63	1
06955	Lead	7439-92-1	119	0.544	1
01657	Magnesium	7439-95-4	4,460	1.82	1
06958	Manganese	7439-96-5	547	0.0902	1
06961	Nickel	7440-02-0	69.2	0.163	1
01662	Potassium	7440-09-7	2,920	14.1	1
06936	Selenium	7782-49-2	18.2	0.478	1
06966	Silver	7440-22-4	6.40	0.207	1
01667	Sodium	7440-23-5	1,190	18.2	1
06925	Thallium	7440-28-0	18.6	0.870	1
06971	Vanadium	7440-62-2	82.7	0.0989	1
06972	Zinc	7440-66-6	335	0.283	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.290	0.0111	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	10.7	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 15:55	Kathrine K Muramatsu	0.81
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:25	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:25	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 08:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/27/2015 00:56	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 11:40	Eric L Eby	1

Sample Description: PLA-S-FS-SB08-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941564
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Account # 20448

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Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015	11:40	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015	15:12	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015	09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015	12:00	James L Mertz	1
00118	Moisture	SM 2540 G-1997	2	15181820001A	07/01/2015	00:18	Scott W Freisher	1

Sample Description: PLA-S-FS-SB08-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941565
LL Group # 1571670
Account # 20448

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Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	190	7	0.91
10237	Benzene	71-43-2	21	0.5	0.91
10237	Bromobenzene	108-86-1	23	1	0.91
10237	Bromochloromethane	74-97-5	21	1	0.91
10237	Bromodichloromethane	75-27-4	19	1	0.91
10237	Bromoform	75-25-2	16	1	0.91
10237	Bromomethane	74-83-9	21	2	0.91
10237	2-Butanone	78-93-3	120	4	0.91
10237	n-Butylbenzene	104-51-8	21	1	0.91
10237	sec-Butylbenzene	135-98-8	26	1	0.91
10237	tert-Butylbenzene	98-06-6	27	1	0.91
10237	Carbon Disulfide	75-15-0	20	1	0.91
10237	Carbon Tetrachloride	56-23-5	21	1	0.91
10237	Chlorobenzene	108-90-7	20	1	0.91
10237	Chloroethane	75-00-3	20	2	0.91
10237	Chloroform	67-66-3	21	1	0.91
10237	Chloromethane	74-87-3	23	2	0.91
10237	2-Chlorotoluene	95-49-8	25	1	0.91
10237	4-Chlorotoluene	106-43-4	23	1	0.91
10237	1,2-Dibromo-3-chloropropane	96-12-8	18	2	0.91
10237	Dibromochloromethane	124-48-1	19	1	0.91
10237	1,2-Dibromoethane	106-93-4	20	1	0.91
10237	Dibromomethane	74-95-3	19	1	0.91
10237	Dichlorodifluoromethane	75-71-8	24	2	0.91
10237	1,1-Dichloroethane	75-34-3	21	1	0.91
10237	1,2-Dichloroethane	107-06-2	20	1	0.91
10237	1,1-Dichloroethene	75-35-4	22	1	0.91
10237	cis-1,2-Dichloroethene	156-59-2	21	1	0.91
10237	trans-1,2-Dichloroethene	156-60-5	22	1	0.91
10237	1,2-Dichloropropane	78-87-5	21	1	0.91
10237	1,3-Dichloropropane	142-28-9	21	1	0.91
10237	2,2-Dichloropropane	594-20-7	22	1	0.91
10237	1,1-Dichloropropene	563-58-6	20	1	0.91
10237	cis-1,3-Dichloropropene	10061-01-5	18	1	0.91
10237	trans-1,3-Dichloropropene	10061-02-6	20	1	0.91
10237	Ethylbenzene	100-41-4	22	1	0.91
10237	2-Hexanone	591-78-6	84	3	0.91
10237	Isopropylbenzene	98-82-8	21	1	0.91
10237	p-Isopropyltoluene	99-87-6	25	1	0.91
10237	Methyl Tertiary Butyl Ether	1634-04-4	19	0.5	0.91
10237	4-Methyl-2-pentanone	108-10-1	84	3	0.91
10237	Methylene Chloride	75-09-2	21	2	0.91
10237	n-Propylbenzene	103-65-1	27	1	0.91
10237	Styrene	100-42-5	18	1	0.91
10237	1,1,1,2-Tetrachloroethane	630-20-6	21	1	0.91
10237	1,1,2,2-Tetrachloroethane	79-34-5	24	1	0.91
10237	Tetrachloroethene	127-18-4	23	1	0.91
10237	Toluene	108-88-3	23	1	0.91
10237	1,2,3-Trichlorobenzene	87-61-6	7	1	0.91
10237	1,1,1-Trichloroethane	71-55-6	21	1	0.91

Sample Description: PLA-S-FS-SB08-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941565
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	21	1	0.91
10237	Trichloroethene	79-01-6	21	1	0.91
10237	Trichlorofluoromethane	75-69-4	23	2	0.91
10237	1,2,3-Trichloropropane	96-18-4	25	1	0.91
10237	1,2,4-Trimethylbenzene	95-63-6	24	1	0.91
10237	1,3,5-Trimethylbenzene	108-67-8	26	1	0.91
10237	Vinyl Chloride	75-01-4	24	1	0.91
10237	m+p-Xylene	179601-23-1	43	1	0.91
10237	o-Xylene	95-47-6	20	1	0.91
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,800	4	1
10726	Acenaphthylene	208-96-8	1,900	4	1
10726	Anthracene	120-12-7	1,800	4	1
10726	Benzidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	1,700	4	1
10726	Benzo(a)pyrene	50-32-8	1,700	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,700	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,900	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,600	4	1
10726	Benzoic acid	65-85-0	2,600	190	1
10726	Benzyl alcohol	100-51-6	1,600	190	1
10726	4-Bromophenyl-phenylether	101-55-3	1,800	19	1
10726	Butylbenzylphthalate	85-68-7	1,700	75	1
10726	Di-n-butylphthalate	84-74-2	1,700	75	1
10726	Carbazole	86-74-8	1,700	19	1
10726	4-Chloro-3-methylphenol	59-50-7	1,400	19	1
10726	4-Chloroaniline	106-47-8	820	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,500	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,600	19	1
10726	2-Chloronaphthalene	91-58-7	1,600	8	1
10726	2-Chlorophenol	95-57-8	1,800	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,600	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,600	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	1,700	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,800	4	1
10726	Dibenzofuran	132-64-9	1,700	19	1
10726	1,2-Dichlorobenzene	95-50-1	1,800	19	1
10726	1,3-Dichlorobenzene	541-73-1	1,700	19	1
10726	1,4-Dichlorobenzene	106-46-7	1,700	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	790	110	1
10726	2,4-Dichlorophenol	120-83-2	1,700	19	1
10726	Diethylphthalate	84-66-2	1,600	75	1
10726	2,4-Dimethylphenol	105-67-9	1,000	19	1
10726	Dimethylphthalate	131-11-3	1,600	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	1

Sample Description: PLA-S-FS-SB08-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941565
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	2,500	340	1
10726	2,4-Dinitrotoluene	121-14-2	1,700	75	1
10726	2,6-Dinitrotoluene	606-20-2	1,800	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,800	75	1
10726	Fluoranthene	206-44-0	1,600	4	1
10726	Fluorene	86-73-7	1,700	4	1
10726	Hexachlorobenzene	118-74-1	1,800	4	1
10726	Hexachlorobutadiene	87-68-3	1,500	19	1
10726	Hexachlorocyclopentadiene	77-47-4	2,300	190	1
10726	Hexachloroethane	67-72-1	1,600	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	4	1
10726	Isophorone	78-59-1	1,500	19	1
10726	2-Methylnaphthalene	91-57-6	1,600	4	1
10726	2-Methylphenol	95-48-7	1,600	19	1
10726	4-Methylphenol	106-44-5	1,500	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	1,700	4	1
10726	2-Nitroaniline	88-74-4	1,900	19	1
10726	3-Nitroaniline	99-09-2	1,800	75	1
10726	4-Nitroaniline	100-01-6	1,500	75	1
10726	Nitrobenzene	98-95-3	1,300	19	1
10726	2-Nitrophenol	88-75-5	1,900	19	1
10726	4-Nitrophenol	100-02-7	1,200	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,400	19	1
10726	N-Nitrosodiphenylamine	86-30-6	1,800	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	1,700	75	1
10726	Pentachlorophenol	87-86-5	1,500	37	1
10726	Phenanthrene	85-01-8	1,800	4	1
10726	Phenol	108-95-2	1,500	19	1
10726	Pyrene	129-00-0	1,700	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,600	19	1
10726	2,4,5-Trichlorophenol	95-95-4	1,800	19	1
10726	2,4,6-Trichlorophenol	88-06-2	1,800	19	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,200	5.03	1
06944	Antimony	7440-36-0	45.5	0.366	1
06935	Arsenic	7440-38-2	27.6	0.710	1
06946	Barium	7440-39-3	339	0.0366	1
06947	Beryllium	7440-41-7	6.32	0.0743	1
06949	Cadmium	7440-43-9	6.83	0.0366	1
01650	Calcium	7440-70-2	5,520	4.20	1
06951	Chromium	7440-47-3	52.3	0.122	1
06952	Cobalt	7440-48-4	62.4	0.106	1
06953	Copper	7440-50-8	91.6	0.366	1

Sample Description: PLA-S-FS-SB08-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941565
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	17,600	3.70	1
06955	Lead	7439-92-1	154	0.554	1
01657	Magnesium	7439-95-4	3,530	1.85	1
06958	Manganese	7439-96-5	594	0.0920	1
06961	Nickel	7440-02-0	77.0	0.166	1
01662	Potassium	7440-09-7	3,350	14.4	1
06936	Selenium	7782-49-2	17.9	0.488	1
06966	Silver	7440-22-4	6.58	0.211	1
01667	Sodium	7440-23-5	1,220	18.5	1
06925	Thallium	7440-28-0	18.9	0.887	1
06971	Vanadium	7440-62-2	84.7	0.101	1
06972	Zinc	7440-66-6	253	0.288	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.224	0.0112	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	10.7	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 16:18	Kathrine K Muramatsu	0.91
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:25	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:25	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 08:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/27/2015 01:19	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 11:43	Eric L Eby	1

Sample Description: PLA-S-FS-SB08-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941565
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015	11:43	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015	15:14	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015	09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015	12:00	James L Mertz	1
00118	Moisture	SM 2540 G-1997	2	15181820001A	07/01/2015	00:18	Scott W Freisher	1

Sample Description: PLA-S-FS-SB08-0-1-DUP Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941566
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
01643	Aluminum	7429-90-5	12,600	4.98	1
06944	Antimony	7440-36-0	0.516 J	0.362	1
06935	Arsenic	7440-38-2	10.5	0.703	1
06946	Barium	7440-39-3	169	0.0362	1
06947	Beryllium	7440-41-7	0.596	0.0736	1
06949	Cadmium	7440-43-9	0.797	0.0362	1
01650	Calcium	7440-70-2	4,020	4.16	1
06951	Chromium	7440-47-3	25.3	0.121	1
06952	Cobalt	7440-48-4	7.45	0.105	1
06953	Copper	7440-50-8	26.4	0.362	1
01654	Iron	7439-89-6	16,300	3.67	1
06955	Lead	7439-92-1	284	0.549	1
01657	Magnesium	7439-95-4	2,770	1.83	1
06958	Manganese	7439-96-5	533	0.0911	1
06961	Nickel	7440-02-0	18.7	0.165	1
01662	Potassium	7440-09-7	1,600	14.3	1
06936	Selenium	7782-49-2	1.04 J	0.483	1
06966	Silver	7440-22-4	0.601	0.209	1
01667	Sodium	7440-23-5	67.4 J	18.3	1
06925	Thallium	7440-28-0	N.D.	0.878	1
06971	Vanadium	7440-62-2	27.8	0.0999	1
06972	Zinc	7440-66-6	156	0.285	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0440 J	0.0104	1

Wet Chemistry		SM 2540 G-1997	%	%	
00118	Moisture	n.a.	10.7	0.50	1
00121	Moisture Duplicate	n.a.	10.0	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 11:36	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 11:36	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 18:28	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 11:36	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 11:36	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 11:36	Eric L Eby	1

Sample Description: PLA-S-FS-SB08-0-1-DUP Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941566
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS80 SDG#: NWP20-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015	11:36	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015	15:10	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015	09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015	12:00	James L Mertz	1
00118	Moisture	SM 2540 G-1997	2	15181820001A	07/01/2015	00:18	Scott W Freisher	1
00121	Moisture Duplicate	SM 2540 G-1997	2	15181820001A	07/01/2015	00:18	Scott W Freisher	1

Sample Description: PLA-S-FS-SB08-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941567
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:40

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS87 SDG#: NWP20-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.73
10237	Benzene	71-43-2	N.D.	0.4	0.73
10237	Bromobenzene	108-86-1	N.D.	0.8	0.73
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.73
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.73
10237	Bromoform	75-25-2	N.D.	0.8	0.73
10237	Bromomethane	74-83-9	N.D.	2	0.73
10237	2-Butanone	78-93-3	N.D.	3	0.73
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.73
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.73
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.73
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.73
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.73
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.73
10237	Chloroethane	75-00-3	N.D.	2	0.73
10237	Chloroform	67-66-3	N.D.	0.8	0.73
10237	Chloromethane	74-87-3	N.D.	2	0.73
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.73
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.73
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.73
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.73
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.73
10237	Dibromomethane	74-95-3	N.D.	0.8	0.73
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.73
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.73
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.73
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.73
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.73
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.73
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.73
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.73
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.73
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.73
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.73
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.73
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.73
10237	2-Hexanone	591-78-6	N.D.	3	0.73
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.73
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.73
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.73
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.73
10237	Methylene Chloride	75-09-2	N.D.	2	0.73
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.73
10237	Styrene	100-42-5	N.D.	0.8	0.73
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.73
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.73
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.73
10237	Toluene	108-88-3	N.D.	0.8	0.73
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.73
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.73

Sample Description: PLA-S-FS-SB08-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941567
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:40

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS87 SDG#: NWP20-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.73
10237	Trichloroethene	79-01-6	11	0.8	0.73
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.73
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.73
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.73
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.73
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.73
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.73
10237	o-Xylene	95-47-6	N.D.	0.8	0.73
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	13	4	1
10726	Anthracene	120-12-7	33	4	1
10726	Benzidine	92-87-5	N.D.	810	1
10726	Benzo(a)anthracene	56-55-3	95	4	1
10726	Benzo(a)pyrene	50-32-8	71	4	1
10726	Benzo(b)fluoranthene	205-99-2	110	4	1
10726	Benzo(g,h,i)perylene	191-24-2	78	4	1
10726	Benzo(k)fluoranthene	207-08-9	50	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	77	1
10726	Di-n-butylphthalate	84-74-2	N.D.	77	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	39	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	120	4	1
10726	Dibenz(a,h)anthracene	53-70-3	19	4	1
10726	Dibenzofuran	132-64-9	45	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	77	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	77	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-FS-SB08-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941567
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:40

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS87 SDG#: NWP20-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	350	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	77	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	77	1
10726	Fluoranthene	206-44-0	120	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	39	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	68	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	170	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	110	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	77	1
10726	4-Nitroaniline	100-01-6	N.D.	77	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	77	1
10726	Pentachlorophenol	87-86-5	N.D.	39	1
10726	Phenanthrene	85-01-8	180	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	140	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals	SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,890	5.27
06944	Antimony	7440-36-0	2.45	0.383
06935	Arsenic	7440-38-2	14.7	0.742
06946	Barium	7440-39-3	85.0	0.0383

Sample Description: PLA-S-FS-SB08-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941567
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:40

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS87 SDG#: NWP20-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06947	Beryllium	7440-41-7	0.655	0.0777	1
06949	Cadmium	7440-43-9	0.618	0.0383	1
01650	Calcium	7440-70-2	30,600	4.40	1
06951	Chromium	7440-47-3	12.8	0.128	1
06952	Cobalt	7440-48-4	6.16	0.111	1
06953	Copper	7440-50-8	75.7	0.383	1
01654	Iron	7439-89-6	30,100	3.87	1
06955	Lead	7439-92-1	97.2	0.580	1
01657	Magnesium	7439-95-4	17,200	1.94	1
06958	Manganese	7439-96-5	319	0.0963	1
06961	Nickel	7440-02-0	13.7	0.174	1
01662	Potassium	7440-09-7	1,320	15.1	1
06936	Selenium	7782-49-2	2.95	0.510	1
06966	Silver	7440-22-4	0.702	0.220	1
01667	Sodium	7440-23-5	209	19.4	1
06925	Thallium	7440-28-0	N.D.	0.928	1
06971	Vanadium	7440-62-2	21.8	0.106	1
06972	Zinc	7440-66-6	106	0.302	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0585 J	0.0109	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	13.8	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151791AA	06/28/2015 14:44	Angela D Sneeringer	0.73
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:25	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:25	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 08:40	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/27/2015 01:43	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1

Sample Description: PLA-S-FS-SB08-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941567
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 08:40

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS87 SDG#: NWP20-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 18:33	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015 11:53	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015 15:18	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015 09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015 12:00	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820006B	06/29/2015 21:12	Scott W Freisher	1

Sample Description: PLA-S-FS-SB08-18-19 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941568
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 09:45

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS88 SDG#: NWP20-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	Acetone	67-64-1	18 J	7	0.84
10237	Benzene	71-43-2	N.D.	0.5	0.84
10237	Bromobenzene	108-86-1	N.D.	1	0.84
10237	Bromochloromethane	74-97-5	N.D.	1	0.84
10237	Bromodichloromethane	75-27-4	N.D.	1	0.84
10237	Bromoform	75-25-2	N.D.	1	0.84
10237	Bromomethane	74-83-9	N.D.	2	0.84
10237	2-Butanone	78-93-3	N.D.	4	0.84
10237	n-Butylbenzene	104-51-8	N.D.	1	0.84
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.84
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.84
10237	Carbon Disulfide	75-15-0	N.D.	1	0.84
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.84
10237	Chlorobenzene	108-90-7	N.D.	1	0.84
10237	Chloroethane	75-00-3	N.D.	2	0.84
10237	Chloroform	67-66-3	N.D.	1	0.84
10237	Chloromethane	74-87-3	N.D.	2	0.84
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.84
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.84
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.84
10237	Dibromochloromethane	124-48-1	N.D.	1	0.84
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.84
10237	Dibromomethane	74-95-3	N.D.	1	0.84
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.84
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.84
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.84
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.84
10237	cis-1,2-Dichloroethene	156-59-2	91	1	0.84
10237	trans-1,2-Dichloroethene	156-60-5	11	1	0.84
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.84
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.84
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.84
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.84
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.84
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.84
10237	Ethylbenzene	100-41-4	N.D.	1	0.84
10237	2-Hexanone	591-78-6	N.D.	3	0.84
10237	Isopropylbenzene	98-82-8	N.D.	1	0.84
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.84
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.84
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.84
10237	Methylene Chloride	75-09-2	N.D.	2	0.84
10237	n-Propylbenzene	103-65-1	N.D.	1	0.84
10237	Styrene	100-42-5	N.D.	1	0.84
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.84
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.84
10237	Tetrachloroethene	127-18-4	N.D.	1	0.84
10237	Toluene	108-88-3	N.D.	1	0.84
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.84
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.84

Sample Description: PLA-S-FS-SB08-18-19 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941568
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 09:45

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS88 SDG#: NWP20-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.84
10237	Trichloroethene	79-01-6	N.D.	1	0.84
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.84
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.84
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.84
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.84
10237	Vinyl Chloride	75-01-4	1 J	1	0.84
10237	m+p-Xylene	179601-23-1	N.D.	1	0.84
10237	o-Xylene	95-47-6	N.D.	1	0.84
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	810	1
10726	Benzo(a)anthracene	56-55-3	6 J	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	4	1
10726	Benzo(g,h,i)perylene	191-24-2	16 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	78	1
10726	Di-n-butylphthalate	84-74-2	N.D.	78	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	39	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	28	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	78	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	78	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-FS-SB08-18-19 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941568
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 09:45

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS88 SDG#: NWP20-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	350	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	78	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	78	1
10726	Fluoranthene	206-44-0	5	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	39	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	78	1
10726	4-Nitroaniline	100-01-6	N.D.	78	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	78	1
10726	Pentachlorophenol	87-86-5	N.D.	39	1
10726	Phenanthrene	85-01-8	42	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	21	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,820	5.29	1
06944	Antimony	7440-36-0	1.10	0.384	1
06935	Arsenic	7440-38-2	17.5	0.745	1
06946	Barium	7440-39-3	15.1	0.0384	1

Sample Description: PLA-S-FS-SB08-18-19 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941568
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Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 09:45

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Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS88 SDG#: NWP20-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06947	Beryllium	7440-41-7	0.631	0.0780	1
06949	Cadmium	7440-43-9	0.659	0.0384	1
01650	Calcium	7440-70-2	18,900	4.41	1
06951	Chromium	7440-47-3	14.0	0.128	1
06952	Cobalt	7440-48-4	15.0	0.112	1
06953	Copper	7440-50-8	45.1	0.384	1
01654	Iron	7439-89-6	28,400	3.89	1
06955	Lead	7439-92-1	29.6	0.582	1
01657	Magnesium	7439-95-4	13,300	1.94	1
06958	Manganese	7439-96-5	493	0.0966	1
06961	Nickel	7440-02-0	30.6	0.175	1
01662	Potassium	7440-09-7	2,880	15.1	1
06936	Selenium	7782-49-2	3.22	0.512	1
06966	Silver	7440-22-4	0.754	0.221	1
01667	Sodium	7440-23-5	104 J	19.4	1
06925	Thallium	7440-28-0	1.73 J	0.931	1
06971	Vanadium	7440-62-2	26.4	0.106	1
06972	Zinc	7440-66-6	285	0.303	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0114	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	14.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151791AA	06/28/2015 15:06	Angela D Sneeringer	0.84
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 09:45	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/27/2015 02:06	William H Saadeh	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1

Sample Description: PLA-S-FS-SB08-18-19 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941568
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Project Name: Newporte Landing Development Site

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Suite 103

Oakbrook IL 60523

PFS88 SDG#: NWP20-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 18:36	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015 12:03	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015 15:20	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015 09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015 12:00	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820006B	06/29/2015 21:12	Scott W Freisher	1

Sample Description: PLA-S-FS-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941569
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:45

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS70 SDG#: NWP20-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.89
10237	Benzene	71-43-2	N.D.	0.5	0.89
10237	Bromobenzene	108-86-1	N.D.	1	0.89
10237	Bromochloromethane	74-97-5	N.D.	1	0.89
10237	Bromodichloromethane	75-27-4	N.D.	1	0.89
10237	Bromoform	75-25-2	N.D.	1	0.89
10237	Bromomethane	74-83-9	N.D.	2	0.89
10237	2-Butanone	78-93-3	N.D.	4	0.89
10237	n-Butylbenzene	104-51-8	N.D.	1	0.89
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.89
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.89
10237	Carbon Disulfide	75-15-0	N.D.	1	0.89
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.89
10237	Chlorobenzene	108-90-7	N.D.	1	0.89
10237	Chloroethane	75-00-3	N.D.	2	0.89
10237	Chloroform	67-66-3	N.D.	1	0.89
10237	Chloromethane	74-87-3	N.D.	2	0.89
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.89
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.89
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.89
10237	Dibromochloromethane	124-48-1	N.D.	1	0.89
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.89
10237	Dibromomethane	74-95-3	N.D.	1	0.89
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.89
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.89
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.89
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.89
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.89
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.89
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.89
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.89
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.89
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.89
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.89
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.89
10237	Ethylbenzene	100-41-4	N.D.	1	0.89
10237	2-Hexanone	591-78-6	N.D.	3	0.89
10237	Isopropylbenzene	98-82-8	N.D.	1	0.89
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.89
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.89
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.89
10237	Methylene Chloride	75-09-2	N.D.	2	0.89
10237	n-Propylbenzene	103-65-1	N.D.	1	0.89
10237	Styrene	100-42-5	N.D.	1	0.89
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.89
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.89
10237	Tetrachloroethene	127-18-4	N.D.	1	0.89
10237	Toluene	108-88-3	N.D.	1	0.89
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.89
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.89

Sample Description: PLA-S-FS-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941569
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:45

Geosyntec

Submitted: 06/24/2015 09:20

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Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS70 SDG#: NWP20-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.89
10237	Trichloroethene	79-01-6	N.D.	1	0.89
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.89
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.89
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.89
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.89
10237	Vinyl Chloride	75-01-4	N.D.	1	0.89
10237	m+p-Xylene	179601-23-1	N.D.	1	0.89
10237	o-Xylene	95-47-6	N.D.	1	0.89
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	8 J	4	1
10726	Anthracene	120-12-7	10 J	4	1
10726	Benzidine	92-87-5	N.D.	740	1
10726	Benzo(a)anthracene	56-55-3	30	4	1
10726	Benzo(a)pyrene	50-32-8	39	4	1
10726	Benzo(b)fluoranthene	205-99-2	45	4	1
10726	Benzo(g,h,i)perylene	191-24-2	38	4	1
10726	Benzo(k)fluoranthene	207-08-9	24	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	71	1
10726	Di-n-butylphthalate	84-74-2	N.D.	71	1
10726	Carbazole	86-74-8	N.D.	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	38	4	1
10726	Dibenz(a,h)anthracene	53-70-3	14 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	71	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	71	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-S-FS-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941569
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:45

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS70 SDG#: NWP20-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	71	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	71	1
10726	Fluoranthene	206-44-0	39	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	34	4	1
10726	Isophorone	78-59-1	N.D.	18	1
10726	2-Methylnaphthalene	91-57-6	20	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	17 J	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	71	1
10726	4-Nitroaniline	100-01-6	N.D.	71	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	71	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	35	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	43	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,540	4.81	1
06944	Antimony	7440-36-0	1.45 J	0.350	1
06935	Arsenic	7440-38-2	23.6	0.678	1
06946	Barium	7440-39-3	120	0.0350	1

Sample Description: PLA-S-FS-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941569
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:45

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS70 SDG#: NWP20-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06947	Beryllium	7440-41-7	0.534	0.0710	1
06949	Cadmium	7440-43-9	0.932	0.0350	1
01650	Calcium	7440-70-2	14,000	4.02	1
06951	Chromium	7440-47-3	13.2	0.117	1
06952	Cobalt	7440-48-4	5.52	0.102	1
06953	Copper	7440-50-8	60.2	0.350	1
01654	Iron	7439-89-6	20,300	3.54	1
06955	Lead	7439-92-1	195	0.530	1
01657	Magnesium	7439-95-4	6,160	1.77	1
06958	Manganese	7439-96-5	494	0.0880	1
06961	Nickel	7440-02-0	15.8	0.159	1
01662	Potassium	7440-09-7	1,090	13.8	1
06936	Selenium	7782-49-2	1.73 J	0.466	1
06966	Silver	7440-22-4	0.938	0.201	1
01667	Sodium	7440-23-5	119	17.7	1
06925	Thallium	7440-28-0	1.01 J	0.848	1
06971	Vanadium	7440-62-2	18.0	0.0965	1
06972	Zinc	7440-66-6	228	0.276	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.157	0.0099	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	6.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 19:18	Kathrine K Muramatsu	0.89
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 10:45	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/28/2015 13:47	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1

Sample Description: PLA-S-FS-SB07-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941569
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:45

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS70 SDG#: NWP20-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 18:38	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015 12:05	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015 15:26	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015 09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015 12:00	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820006B	06/29/2015 21:12	Scott W Freisher	1

Sample Description: PLA-S-FS-SB07-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941570
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS77 SDG#: NWP20-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.7
10237	Benzene	71-43-2	N.D.	0.4	0.7
10237	Bromobenzene	108-86-1	N.D.	0.8	0.7
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.7
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.7
10237	Bromoform	75-25-2	N.D.	0.8	0.7
10237	Bromomethane	74-83-9	N.D.	2	0.7
10237	2-Butanone	78-93-3	N.D.	3	0.7
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.7
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.7
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.7
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.7
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.7
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.7
10237	Chloroethane	75-00-3	N.D.	2	0.7
10237	Chloroform	67-66-3	N.D.	0.8	0.7
10237	Chloromethane	74-87-3	N.D.	2	0.7
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.7
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.7
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.7
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.7
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.7
10237	Dibromomethane	74-95-3	N.D.	0.8	0.7
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.7
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.7
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.7
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.7
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.7
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.7
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.7
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.7
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.7
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.7
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.7
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.7
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.7
10237	2-Hexanone	591-78-6	N.D.	2	0.7
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.7
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.7
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.7
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.7
10237	Methylene Chloride	75-09-2	N.D.	2	0.7
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.7
10237	Styrene	100-42-5	N.D.	0.8	0.7
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.7
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.7
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.7
10237	Toluene	108-88-3	N.D.	0.8	0.7
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.7
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.7

Sample Description: PLA-S-FS-SB07-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941570
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS77 SDG#: NWP20-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.7
10237	Trichloroethene	79-01-6	2 J	0.8	0.7
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.7
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.7
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.7
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.7
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.7
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.7
10237	o-Xylene	95-47-6	N.D.	0.8	0.7
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	5 J	4	1
10726	Benzo(a)pyrene	50-32-8	6 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	8 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	4	1
10726	Benzo(k)fluoranthene	207-08-9	5 J	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	75	1
10726	Di-n-butylphthalate	84-74-2	N.D.	75	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	7 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	75	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-FS-SB07-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941570
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS77 SDG#: NWP20-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	75	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	75	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	9 J	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	75	1
10726	4-Nitroaniline	100-01-6	N.D.	75	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	75	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	N.D.	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	6,670	5.03	1
06944	Antimony	7440-36-0	0.407 J	0.365	1
06935	Arsenic	7440-38-2	2.34	0.709	1
06946	Barium	7440-39-3	18.9	0.0365	1

Sample Description: PLA-S-FS-SB07-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941570
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS77 SDG#: NWP20-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06947	Beryllium	7440-41-7	0.230 J	0.0742	1
06949	Cadmium	7440-43-9	0.0664 J	0.0365	1
01650	Calcium	7440-70-2	809	4.20	1
06951	Chromium	7440-47-3	7.79	0.122	1
06952	Cobalt	7440-48-4	3.07	0.106	1
06953	Copper	7440-50-8	3.60	0.365	1
01654	Iron	7439-89-6	4,950	3.70	1
06955	Lead	7439-92-1	6.13	0.554	1
01657	Magnesium	7439-95-4	1,320	1.85	1
06958	Manganese	7439-96-5	42.6	0.0919	1
06961	Nickel	7440-02-0	10.2	0.166	1
01662	Potassium	7440-09-7	829	14.4	1
06936	Selenium	7782-49-2	N.D.	0.487	1
06966	Silver	7440-22-4	0.230 J	0.210	1
01667	Sodium	7440-23-5	47.1 J	18.5	1
06925	Thallium	7440-28-0	N.D.	0.886	1
06971	Vanadium	7440-62-2	12.1	0.101	1
06972	Zinc	7440-66-6	30.6	0.288	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0118 J	0.0109	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	12.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 19:41	Kathrine K Muramatsu	0.7
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 10:50	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/28/2015 14:10	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1

Sample Description: PLA-S-FS-SB07-7-8 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941570
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 10:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS77 SDG#: NWP20-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 18:41	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015 12:09	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015 15:28	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015 09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015 12:00	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820006B	06/29/2015 21:12	Scott W Freisher	1

Sample Description: PLA-S-FS-SB07-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941571
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 11:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS75 SDG#: NWP20-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg		ug/kg	
10237	Acetone	67-64-1	10	J	9	1.02
10237	Benzene	71-43-2	0.7	J	0.6	1.02
10237	Bromobenzene	108-86-1	N.D.		1	1.02
10237	Bromochloromethane	74-97-5	N.D.		1	1.02
10237	Bromodichloromethane	75-27-4	N.D.		1	1.02
10237	Bromoform	75-25-2	N.D.		1	1.02
10237	Bromomethane	74-83-9	N.D.		3	1.02
10237	2-Butanone	78-93-3	N.D.		5	1.02
10237	n-Butylbenzene	104-51-8	N.D.		1	1.02
10237	sec-Butylbenzene	135-98-8	N.D.		1	1.02
10237	tert-Butylbenzene	98-06-6	N.D.		1	1.02
10237	Carbon Disulfide	75-15-0	N.D.		1	1.02
10237	Carbon Tetrachloride	56-23-5	N.D.		1	1.02
10237	Chlorobenzene	108-90-7	N.D.		1	1.02
10237	Chloroethane	75-00-3	N.D.		3	1.02
10237	Chloroform	67-66-3	N.D.		1	1.02
10237	Chloromethane	74-87-3	N.D.		3	1.02
10237	2-Chlorotoluene	95-49-8	N.D.		1	1.02
10237	4-Chlorotoluene	106-43-4	N.D.		1	1.02
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		3	1.02
10237	Dibromochloromethane	124-48-1	N.D.		1	1.02
10237	1,2-Dibromoethane	106-93-4	N.D.		1	1.02
10237	Dibromomethane	74-95-3	N.D.		1	1.02
10237	Dichlorodifluoromethane	75-71-8	N.D.		3	1.02
10237	1,1-Dichloroethane	75-34-3	N.D.		1	1.02
10237	1,2-Dichloroethane	107-06-2	N.D.		1	1.02
10237	1,1-Dichloroethene	75-35-4	5	J	1	1.02
10237	cis-1,2-Dichloroethene	156-59-2	260	J	52	41.81
10237	trans-1,2-Dichloroethene	156-60-5	38		1	1.02
10237	1,2-Dichloropropane	78-87-5	N.D.		1	1.02
10237	1,3-Dichloropropane	142-28-9	N.D.		1	1.02
10237	2,2-Dichloropropane	594-20-7	N.D.		1	1.02
10237	1,1-Dichloropropene	563-58-6	N.D.		1	1.02
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	1.02
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	1.02
10237	Ethylbenzene	100-41-4	N.D.		1	1.02
10237	2-Hexanone	591-78-6	N.D.		4	1.02
10237	Isopropylbenzene	98-82-8	N.D.		1	1.02
10237	p-Isopropyltoluene	99-87-6	N.D.		1	1.02
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.6	1.02
10237	4-Methyl-2-pentanone	108-10-1	N.D.		4	1.02
10237	Methylene Chloride	75-09-2	3	J	3	1.02
10237	n-Propylbenzene	103-65-1	N.D.		1	1.02
10237	Styrene	100-42-5	N.D.		1	1.02
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	1.02
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	1.02
10237	Tetrachloroethene	127-18-4	N.D.		1	1.02
10237	Toluene	108-88-3	N.D.		1	1.02
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	1.02
10237	1,1,1-Trichloroethane	71-55-6	N.D.		1	1.02

Sample Description: PLA-S-FS-SB07-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941571
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 11:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS75 SDG#: NWP20-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1.02
10237	Trichloroethene	79-01-6	2,100	52	41.81
10237	Trichlorofluoromethane	75-69-4	N.D.	3	1.02
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1.02
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1.02
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1.02
10237	Vinyl Chloride	75-01-4	N.D.	1	1.02
10237	m+p-Xylene	179601-23-1	N.D.	1	1.02
10237	o-Xylene	95-47-6	N.D.	1	1.02

The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

The concentration reported for cis-1,2-Dichloroethene is estimated since it exceeds the calibration range of the instrument when determined by the low level method, but is less than the quantitation limit when determined by the high level method. The result reported is from the high level determination.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benidine	92-87-5	N.D.	860	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	7	J	4
10726	Benzo(g,h,i)perylene	191-24-2	13	J	4
10726	Benzo(k)fluoranthene	207-08-9	5	J	4
10726	Benzoic acid	65-85-0	N.D.	210	1
10726	Benzyl alcohol	100-51-6	N.D.	210	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	21	1
10726	Butylbenzylphthalate	85-68-7	N.D.	82	1
10726	Di-n-butylphthalate	84-74-2	N.D.	82	1
10726	Carbazole	86-74-8	N.D.	21	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	21	1
10726	4-Chloroaniline	106-47-8	N.D.	41	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	21	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	21	1
10726	2-Chloronaphthalene	91-58-7	N.D.	9	1
10726	2-Chlorophenol	95-57-8	N.D.	21	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	21	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	21	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	16	J	4

Sample Description: PLA-S-FS-SB07-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941571
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 11:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS75 SDG#: NWP20-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Dibenz (a, h) anthracene	53-70-3	5 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	21	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	21	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	21	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	21	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	21	1
10726	Diethylphthalate	84-66-2	N.D.	82	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	21	1
10726	Dimethylphthalate	131-11-3	N.D.	82	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	210	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	370	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	82	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	21	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	82	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	21	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	210	1
10726	Hexachloroethane	67-72-1	N.D.	41	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	21	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	21	1
10726	4-Methylphenol	106-44-5	N.D.	21	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	21	1
10726	3-Nitroaniline	99-09-2	N.D.	82	1
10726	4-Nitroaniline	100-01-6	N.D.	82	1
10726	Nitrobenzene	98-95-3	N.D.	21	1
10726	2-Nitrophenol	88-75-5	N.D.	21	1
10726	4-Nitrophenol	100-02-7	N.D.	210	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	21	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	21	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	82	1
10726	Pentachlorophenol	87-86-5	N.D.	41	1
10726	Phenanthrene	85-01-8	4 J	4	1
10726	Phenol	108-95-2	N.D.	21	1
10726	Pyrene	129-00-0	10 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	21	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	21	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	21	1

The LCS and/or LCSD recoveries are outside the stated QC window

Sample Description: PLA-S-FS-SB07-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941571
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 11:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS75 SDG#: NWP20-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:					
Isophorone					
Nitrobenzene					
Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,200	5.65	1
06944	Antimony	7440-36-0	1.06 J	0.410	1
06935	Arsenic	7440-38-2	26.0	0.796	1
06946	Barium	7440-39-3	23.7	0.0410	1
06947	Beryllium	7440-41-7	1.17	0.0833	1
06949	Cadmium	7440-43-9	0.567 J	0.0410	1
01650	Calcium	7440-70-2	1,030	4.71	1
06951	Chromium	7440-47-3	22.4	0.137	1
06952	Cobalt	7440-48-4	18.1	0.119	1
06953	Copper	7440-50-8	60.9	0.410	1
01654	Iron	7439-89-6	32,600	20.8	5
06955	Lead	7439-92-1	41.0	0.622	1
01657	Magnesium	7439-95-4	3,910	2.08	1
06958	Manganese	7439-96-5	139	0.103	1
06961	Nickel	7440-02-0	50.3	0.187	1
01662	Potassium	7440-09-7	4,620	16.2	1
06936	Selenium	7782-49-2	2.30 J	0.547	1
06966	Silver	7440-22-4	0.976	0.236	1
01667	Sodium	7440-23-5	399	20.8	1
06925	Thallium	7440-28-0	2.27 J	0.995	1
06971	Vanadium	7440-62-2	46.9	0.113	1
06972	Zinc	7440-66-6	263	0.323	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0377 J	0.0118	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	19.6	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781AA	06/27/2015 20:03	Kathrine K Muramatsu	1.02

Sample Description: PLA-S-FS-SB07-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941571
LL Group # 1571670
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 11:30

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/01/2015 18:28

Suite 103

Oakbrook IL 60523

PFS75 SDG#: NWP20-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q151801AA	06/29/2015 12:56	Anita M Dale	41.81
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 11:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLF026	06/28/2015 14:34	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLF026	06/26/2015 07:10	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06935	Arsenic	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06946	Barium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06947	Beryllium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06949	Cadmium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06952	Cobalt	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06953	Copper	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
01654	Iron	SW-846 6010B	1	151775708005	06/30/2015 18:44	Suzanne M Will	5
06955	Lead	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
01657	Magnesium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06961	Nickel	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
01662	Potassium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06966	Silver	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
01667	Sodium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06971	Vanadium	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
06972	Zinc	SW-846 6010B	1	151775708005	06/30/2015 12:12	Eric L Eby	1
00159	Mercury	SW-846 7471A	1	151775711006	07/01/2015 15:30	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708005	06/29/2015 09:31	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711006	06/29/2015 12:00	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820006B	06/29/2015 21:12	Scott W Freisher	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A151781AA	Sample number(s): 7941564-7941565, 7941569-7941571							
Acetone	N.D.	7.	ug/kg	89		57-127		
Benzene	N.D.	0.5	ug/kg	99		80-120		
Bromobenzene	N.D.	1.	ug/kg	101		78-120		
Bromochloromethane	N.D.	1.	ug/kg	109		80-120		
Bromodichloromethane	N.D.	1.	ug/kg	98		75-120		
Bromoform	N.D.	1.	ug/kg	92		64-120		
Bromomethane	N.D.	2.	ug/kg	99		41-144		
2-Butanone	N.D.	4.	ug/kg	92		62-123		
n-Butylbenzene	N.D.	1.	ug/kg	101		72-120		
sec-Butylbenzene	N.D.	1.	ug/kg	102		69-120		
tert-Butylbenzene	N.D.	1.	ug/kg	101		75-120		
Carbon Disulfide	N.D.	1.	ug/kg	88		52-126		
Carbon Tetrachloride	N.D.	1.	ug/kg	95		69-130		
Chlorobenzene	N.D.	1.	ug/kg	104		80-120		
Chloroethane	N.D.	2.	ug/kg	91		38-142		
Chloroform	N.D.	1.	ug/kg	100		80-120		
Chloromethane	N.D.	2.	ug/kg	100		56-120		
2-Chlorotoluene	N.D.	1.	ug/kg	102		78-120		
4-Chlorotoluene	N.D.	1.	ug/kg	103		79-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	90		59-122		
Dibromochloromethane	N.D.	1.	ug/kg	98		77-120		
1,2-Dibromoethane	N.D.	1.	ug/kg	103		80-120		
Dibromomethane	N.D.	1.	ug/kg	99		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/kg	97		26-137		
1,1-Dichloroethane	N.D.	1.	ug/kg	98		77-120		
1,2-Dichloroethane	N.D.	1.	ug/kg	102		77-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	94		73-129		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	100		80-120		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	100		79-122		
1,2-Dichloropropane	N.D.	1.	ug/kg	104		76-120		
1,3-Dichloropropane	N.D.	1.	ug/kg	102		80-120		
2,2-Dichloropropane	N.D.	1.	ug/kg	100		72-123		
1,1-Dichloropropene	N.D.	1.	ug/kg	91		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	97		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	102		76-120		
Ethylbenzene	N.D.	1.	ug/kg	103		80-120		
2-Hexanone	N.D.	3.	ug/kg	93		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	103		76-120		
p-Isopropyltoluene	N.D.	1.	ug/kg	100		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	99		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	94		57-123		
Methylene Chloride	N.D.	2.	ug/kg	102		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	103		77-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	102		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	99		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	100		78-120		
Toluene	N.D.	1.	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	98		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	95		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104		80-120		
Trichloroethene	N.D.	1.	ug/kg	100		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	94		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	101		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	103		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	102		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	100		59-120		
m+p-Xylene	N.D.	1.	ug/kg	104		80-120		
o-Xylene	N.D.	1.	ug/kg	101		80-120		

Batch number: A151781AB

Sample number(s): 7941563

Acetone	N.D.	7.	ug/kg	114		57-127		
Benzene	N.D.	0.5	ug/kg	96		80-120		
Bromobenzene	N.D.	1.	ug/kg	101		78-120		
Bromochloromethane	N.D.	1.	ug/kg	108		80-120		
Bromodichloromethane	N.D.	1.	ug/kg	98		75-120		
Bromoform	N.D.	1.	ug/kg	95		64-120		
Bromomethane	N.D.	2.	ug/kg	94		41-144		
2-Butanone	N.D.	4.	ug/kg	97		62-123		
n-Butylbenzene	N.D.	1.	ug/kg	98		72-120		
sec-Butylbenzene	N.D.	1.	ug/kg	99		69-120		
tert-Butylbenzene	N.D.	1.	ug/kg	96		75-120		
Carbon Disulfide	N.D.	1.	ug/kg	73		52-126		
Carbon Tetrachloride	N.D.	1.	ug/kg	95		69-130		
Chlorobenzene	N.D.	1.	ug/kg	104		80-120		
Chloroethane	N.D.	2.	ug/kg	87		38-142		
Chloroform	N.D.	1.	ug/kg	99		80-120		
Chloromethane	N.D.	2.	ug/kg	95		56-120		
2-Chlorotoluene	N.D.	1.	ug/kg	100		78-120		
4-Chlorotoluene	N.D.	1.	ug/kg	100		79-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	97		59-122		
Dibromochloromethane	N.D.	1.	ug/kg	98		77-120		
1,2-Dibromoethane	N.D.	1.	ug/kg	104		80-120		
Dibromomethane	N.D.	1.	ug/kg	100		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/kg	101		26-137		
1,1-Dichloroethane	N.D.	1.	ug/kg	94		77-120		
1,2-Dichloroethane	N.D.	1.	ug/kg	100		77-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	86		73-129		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	97		80-120		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	96		79-122		
1,2-Dichloropropane	N.D.	1.	ug/kg	100		76-120		
1,3-Dichloropropane	N.D.	1.	ug/kg	101		80-120		
2,2-Dichloropropane	N.D.	1.	ug/kg	97		72-123		
1,1-Dichloropropene	N.D.	1.	ug/kg	89		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	94		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	101		76-120		
Ethylbenzene	N.D.	1.	ug/kg	100		80-120		
2-Hexanone	N.D.	3.	ug/kg	101		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	100		76-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
p-Isopropyltoluene	N.D.	1.	ug/kg	97		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	95		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	102		57-123		
Methylene Chloride	N.D.	2.	ug/kg	95		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	99		77-120		
Styrene	N.D.	1.	ug/kg	104		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	101		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	105		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	100		78-120		
Toluene	N.D.	1.	ug/kg	100		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	93		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	87		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104		80-120		
Trichloroethene	N.D.	1.	ug/kg	99		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	98		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	107		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	99		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	100		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	97		59-120		
m+p-Xylene	N.D.	1.	ug/kg	102		80-120		
o-Xylene	N.D.	1.	ug/kg	97		80-120		

Batch number: A151791AA

Sample number(s): 7941567-7941568

Acetone	N.D.	7.	ug/kg	114	113	57-127	1	30
Benzene	N.D.	0.5	ug/kg	96	97	80-120	1	30
Bromobenzene	N.D.	1.	ug/kg	101	101	78-120	1	30
Bromochloromethane	N.D.	1.	ug/kg	108	108	80-120	0	30
Bromodichloromethane	N.D.	1.	ug/kg	98	97	75-120	0	30
Bromoform	N.D.	1.	ug/kg	95	92	64-120	4	30
Bromomethane	N.D.	2.	ug/kg	94	93	41-144	1	30
2-Butanone	N.D.	4.	ug/kg	97	91	62-123	6	30
n-Butylbenzene	N.D.	1.	ug/kg	98	100	72-120	1	30
sec-Butylbenzene	N.D.	1.	ug/kg	99	101	69-120	2	30
tert-Butylbenzene	N.D.	1.	ug/kg	96	101	75-120	5	30
Carbon Disulfide	N.D.	1.	ug/kg	73	73	52-126	0	30
Carbon Tetrachloride	N.D.	1.	ug/kg	95	94	69-130	1	30
Chlorobenzene	N.D.	1.	ug/kg	104	102	80-120	2	30
Chloroethane	N.D.	2.	ug/kg	87	90	38-142	3	30
Chloroform	N.D.	1.	ug/kg	99	98	80-120	1	30
Chloromethane	N.D.	2.	ug/kg	95	95	56-120	0	30
2-Chlorotoluene	N.D.	1.	ug/kg	100	102	78-120	2	30
4-Chlorotoluene	N.D.	1.	ug/kg	100	103	79-120	3	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	97	89	59-122	8	30
Dibromochloromethane	N.D.	1.	ug/kg	98	97	77-120	2	30
1,2-Dibromoethane	N.D.	1.	ug/kg	104	102	80-120	1	30
Dibromomethane	N.D.	1.	ug/kg	100	99	80-120	2	30
Dichlorodifluoromethane	N.D.	2.	ug/kg	101	98	26-137	4	30
1,1-Dichloroethane	N.D.	1.	ug/kg	94	94	77-120	1	30
1,2-Dichloroethane	N.D.	1.	ug/kg	100	99	77-130	0	30
1,1-Dichloroethene	N.D.	1.	ug/kg	86	85	73-129	1	30
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	97	99	80-120	2	30
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	96	96	79-122	0	30
1,2-Dichloropropane	N.D.	1.	ug/kg	100	102	76-120	2	30
1,3-Dichloropropane	N.D.	1.	ug/kg	101	100	80-120	1	30
2,2-Dichloropropane	N.D.	1.	ug/kg	97	98	72-123	1	30
1,1-Dichloropropene	N.D.	1.	ug/kg	89	91	80-120	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	94	94	74-120	0	30
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	101	101	76-120	0	30
Ethylbenzene	N.D.	1.	ug/kg	100	101	80-120	0	30
2-Hexanone	N.D.	3.	ug/kg	101	94	47-133	8	30
Isopropylbenzene	N.D.	1.	ug/kg	100	101	76-120	1	30
p-Isopropyltoluene	N.D.	1.	ug/kg	97	100	69-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	95	93	72-120	2	30
4-Methyl-2-pentanone	N.D.	3.	ug/kg	102	93	57-123	8	30
Methylene Chloride	N.D.	2.	ug/kg	95	96	80-124	1	30
n-Propylbenzene	N.D.	1.	ug/kg	99	102	77-120	3	30
Styrene	N.D.	1.	ug/kg	104	103	76-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	101	101	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	106	102	72-120	4	30
Tetrachloroethene	N.D.	1.	ug/kg	100	99	78-120	1	30
Toluene	N.D.	1.	ug/kg	100	100	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	93	94	52-120	1	30
1,1,1-Trichloroethane	N.D.	1.	ug/kg	87	88	66-126	1	30
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104	102	80-120	2	30
Trichloroethene	N.D.	1.	ug/kg	99	99	80-120	0	30
Trichlorofluoromethane	N.D.	2.	ug/kg	98	97	58-133	1	30
1,2,3-Trichloropropane	N.D.	1.	ug/kg	107	103	77-120	3	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	99	101	79-120	2	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	100	102	78-120	3	30
Vinyl Chloride	N.D.	1.	ug/kg	97	97	59-120	0	30
m+p-Xylene	N.D.	1.	ug/kg	102	102	80-120	1	30
o-Xylene	N.D.	1.	ug/kg	97	99	80-120	2	30

Batch number: Q151801AA
cis-1,2-Dichloroethene
Trichloroethene

Sample number(s): 7941571
N.D. 50. ug/kg 96 96 80-120 0 30
N.D. 50. ug/kg 97 94 80-120 3 30

Batch number: 15176SLF026

Sample number(s): 7941563-7941565,7941567-7941571

Acenaphthene	N.D.	3.	ug/kg	101		83-116		
Acenaphthylene	N.D.	3.	ug/kg	107		83-127		
Anthracene	N.D.	3.	ug/kg	103		82-118		
Benzidine	N.D.	700.	ug/kg	76*		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	91		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	100		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	95		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	106		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	97		79-120		
Benzoic acid	N.D.	170.	ug/kg	79		41-122		
Benzyl alcohol	N.D.	170.	ug/kg	92		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	102		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	93		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	96		84-120		
Carbazole	N.D.	17.	ug/kg	97		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	87		79-127		
4-Chloroaniline	N.D.	33.	ug/kg	75		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	90		77-116		
bis(2-Chloroethyl) ether	N.D.	17.	ug/kg	88		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	86		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	107		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	97		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	90		70-119		
Chrysene	N.D.	3.	ug/kg	89		80-121		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dibenz (a, h) anthracene	N.D.	3.	ug/kg	103		81-123		
Dibenzofuran	N.D.	17.	ug/kg	101		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	95		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	92		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	90		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	48		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	99		81-123		
Diethylphthalate	N.D.	67.	ug/kg	93		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	89		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	95		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	84		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	67		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	98		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	101		83-120		
bis(2-Ethylhexyl) phthalate	N.D.	67.	ug/kg	93		81-121		
Fluoranthene	N.D.	3.	ug/kg	89		81-117		
Fluorene	N.D.	3.	ug/kg	100		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	100		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	86		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	86		75-176		
Hexachloroethane	N.D.	33.	ug/kg	88		78-114		
Indeno (1,2,3-cd) pyrene	N.D.	3.	ug/kg	102		81-118		
Isophorone	N.D.	17.	ug/kg	85*		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	91		83-109		
2-Methylphenol	N.D.	17.	ug/kg	99		82-125		
4-Methylphenol	N.D.	17.	ug/kg	90		75-119		
Naphthalene	N.D.	3.	ug/kg	94		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	111		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	107		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	77		48-112		
Nitrobenzene	N.D.	17.	ug/kg	77*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	103		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	75		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	79		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	103		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	102		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	92		57-126		
Phenanthrene	N.D.	3.	ug/kg	102		80-114		
Phenol	N.D.	17.	ug/kg	85		75-117		
Pyrene	N.D.	3.	ug/kg	94		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	92		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	104		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	107		81-123		
Batch number: 151775708005 Sample number(s): 7941563-7941571								
Aluminum	N.D.	4.54	mg/kg	101		80-120		
Antimony	N.D.	0.330	mg/kg	102		80-120		
Arsenic	N.D.	0.640	mg/kg	105		80-120		
Barium	N.D.	0.0330	mg/kg	103		80-120		
Beryllium	N.D.	0.0670	mg/kg	103		80-120		
Cadmium	N.D.	0.0330	mg/kg	100		80-120		
Calcium	N.D.	3.79	mg/kg	99		80-120		
Chromium	N.D.	0.110	mg/kg	102		80-120		
Cobalt	N.D.	0.0960	mg/kg	100		80-120		
Copper	N.D.	0.330	mg/kg	102		80-120		
Iron	N.D.	3.34	mg/kg	99		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1571670

Reported: 07/01/2015 18:28

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Lead	N.D.	0.500	mg/kg	101		80-120		
Magnesium	3.33 J	1.67	mg/kg	100		80-120		
Manganese	N.D.	0.0830	mg/kg	102		80-120		
Nickel	N.D.	0.150	mg/kg	102		80-120		
Potassium	N.D.	13.0	mg/kg	99		80-120		
Selenium	0.456 J	0.440	mg/kg	106		80-120		
Silver	N.D.	0.190	mg/kg	106		80-120		
Sodium	N.D.	16.7	mg/kg	100		80-120		
Thallium	N.D.	0.800	mg/kg	112		80-120		
Vanadium	0.109 J	0.0910	mg/kg	104		80-120		
Zinc	N.D.	0.260	mg/kg	100		80-120		
Batch number: 151775711006	Sample number(s): 7941563-7941571							
Mercury	N.D.	0.0100	mg/kg	99		80-120		
Batch number: 15180820006B	Sample number(s): 7941567-7941571							
Moisture				100		99-101		
Batch number: 15181820001A	Sample number(s): 7941563-7941566							
Moisture				100		99-101		
Moisture				100		99-101		
Moisture Duplicate				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: A151781AA	Sample number(s): 7941564-7941565, 7941569-7941571 UNSPK: 7941563								
Acetone	124	121	31-195	9	30				
Benzene	110	102	55-143	3	30				
Bromobenzene	120	111	43-139	3	30				
Bromochloromethane	113	106	60-137	4	30				
Bromodichloromethane	102	94	53-136	3	30				
Bromoform	91	78	50-144	5	30				
Bromomethane	103	106	42-168	13	30				
2-Butanone	89	78	37-163	2	30				
n-Butylbenzene	119	106	30-146	1	30				
sec-Butylbenzene	138	127	33-157	3	30				
tert-Butylbenzene	137	131	41-152	7	30				
Carbon Disulfide	105	99	48-146	5	30				
Carbon Tetrachloride	113	105	51-165	4	30				
Chlorobenzene	111	100	49-135	1	30				
Chloroethane	97	100	39-152	14	30				
Chloroform	112	104	61-142	4	30				
Chloromethane	109	115	36-143	16	30				
2-Chlorotoluene	129	121	42-146	5	30				
4-Chlorotoluene	123	114	39-145	3	30				
1,2-Dibromo-3-chloropropane	97	87	34-165	0	30				
Dibromochloromethane	105	94	51-128	0	30				
1,2-Dibromoethane	109	99	54-129	2	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Dibromomethane	105	94	57-130	0	30			
Dichlorodifluoromethane	121	118	26-151	8	30			
1,1-Dichloroethane	110	103	63-142	5	30			
1,2-Dichloroethane	107	97	54-143	2	30			
1,1-Dichloroethene	113	107	61-149	5	30			
cis-1,2-Dichloroethene	111	104	67-135	4	30			
trans-1,2-Dichloroethene	116	108	64-144	4	30			
1,2-Dichloropropane	112	104	54-144	4	30			
1,3-Dichloropropane	111	102	51-140	2	30			
2,2-Dichloropropane	115	108	53-147	5	30			
1,1-Dichloropropene	107	100	54-145	5	30			
cis-1,3-Dichloropropene	97	87	45-137	1	30			
trans-1,3-Dichloropropene	109	97	51-134	1	30			
Ethylbenzene	117	108	44-141	3	30			
2-Hexanone	97	82	32-160	5	30			
Isopropylbenzene	116	104	38-144	0	30			
p-Isopropyltoluene	130	124	29-152	7	30			
Methyl Tertiary Butyl Ether	103	94	55-129	2	30			
4-Methyl-2-pentanone	97	83	46-139	5	30			
Methylene Chloride	115	105	60-149	2	30			
n-Propylbenzene	142	134	39-157	5	30			
Styrene	101	88	35-134	3	30			
1,1,1,2-Tetrachloroethane	112	106	55-139	5	30			
1,1,2,2-Tetrachloroethane	130	118	29-182	1	30			
Tetrachloroethene	121	112	42-149	3	30			
Toluene	120	114	50-146	6	30			
1,2,3-Trichlorobenzene	46	35	10-140	16	30			
1,1,1-Trichloroethane	108	103	52-146	6	30			
1,1,2-Trichloroethane	113	104	58-152	2	30			
Trichloroethene	112	102	53-144	2	30			
Trichlorofluoromethane	111	112	47-163	12	30			
1,2,3-Trichloropropane	137	123	36-180	1	30			
1,2,4-Trimethylbenzene	128	120	37-149	4	30			
1,3,5-Trimethylbenzene	136	128	38-150	5	30			
Vinyl Chloride	113	116	50-154	13	30			
m+p-Xylene	116	105	44-137	2	30			
o-Xylene	108	98	42-137	2	30			

Batch number: A151781AB	Sample number(s): 7941563	UNSPK: 7941563			
Acetone	124	121	31-195	9	30
Benzene	110	102	55-143	3	30
Bromobenzene	120	111	43-139	3	30
Bromochloromethane	113	106	60-137	4	30
Bromodichloromethane	102	94	53-136	3	30
Bromoform	91	78	50-144	5	30
Bromomethane	103	106	42-168	13	30
2-Butanone	89	78	37-163	2	30
n-Butylbenzene	119	106	30-146	1	30
sec-Butylbenzene	138	127	33-157	3	30
tert-Butylbenzene	137	131	41-152	7	30
Carbon Disulfide	105	99	48-146	5	30
Carbon Tetrachloride	113	105	51-165	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Chlorobenzene	111	100	49-135	1	30			
Chloroethane	97	100	39-152	14	30			
Chloroform	112	104	61-142	4	30			
Chloromethane	109	115	36-143	16	30			
2-Chlorotoluene	129	121	42-146	5	30			
4-Chlorotoluene	123	114	39-145	3	30			
1,2-Dibromo-3-chloropropane	97	87	34-165	0	30			
Dibromochloromethane	105	94	51-128	0	30			
1,2-Dibromoethane	109	99	54-129	2	30			
Dibromomethane	105	94	57-130	0	30			
Dichlorodifluoromethane	121	118	26-151	8	30			
1,1-Dichloroethane	110	103	63-142	5	30			
1,2-Dichloroethane	107	97	54-143	2	30			
1,1-Dichloroethene	113	107	61-149	5	30			
cis-1,2-Dichloroethene	111	104	67-135	4	30			
trans-1,2-Dichloroethene	116	108	64-144	4	30			
1,2-Dichloropropane	112	104	54-144	4	30			
1,3-Dichloropropane	111	102	51-140	2	30			
2,2-Dichloropropane	115	108	53-147	5	30			
1,1-Dichloropropene	107	100	54-145	5	30			
cis-1,3-Dichloropropene	97	87	45-137	1	30			
trans-1,3-Dichloropropene	109	97	51-134	1	30			
Ethylbenzene	117	108	44-141	3	30			
2-Hexanone	97	82	32-160	5	30			
Isopropylbenzene	116	104	38-144	0	30			
p-Isopropyltoluene	130	124	29-152	7	30			
Methyl Tertiary Butyl Ether	103	94	55-129	2	30			
4-Methyl-2-pentanone	97	83	46-139	5	30			
Methylene Chloride	115	105	60-149	2	30			
n-Propylbenzene	142	134	39-157	5	30			
Styrene	101	88	35-134	3	30			
1,1,1,2-Tetrachloroethane	112	106	55-139	5	30			
1,1,2,2-Tetrachloroethane	130	118	29-182	1	30			
Tetrachloroethene	121	112	42-149	3	30			
Toluene	120	114	50-146	6	30			
1,2,3-Trichlorobenzene	46	35	10-140	16	30			
1,1,1-Trichloroethane	108	103	52-146	6	30			
1,1,2-Trichloroethane	113	104	58-152	2	30			
Trichloroethene	112	102	53-144	2	30			
Trichlorofluoromethane	111	112	47-163	12	30			
1,2,3-Trichloropropane	137	123	36-180	1	30			
1,2,4-Trimethylbenzene	128	120	37-149	4	30			
1,3,5-Trimethylbenzene	136	128	38-150	5	30			
Vinyl Chloride	113	116	50-154	13	30			
m+p-Xylene	116	105	44-137	2	30			
o-Xylene	108	98	42-137	2	30			

Batch number: A151791AA	Sample number(s): 7941567-7941568 UNSPK: P943407
Acetone	112 121 31-195 2 30
Benzene	102 103 55-143 5 30
Bromobenzene	120 120 43-139 5 30
Bromochloromethane	114 116 60-137 4 30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Bromodichloromethane	97	100	53-136	2	30				
Bromoform	79	85	50-144	3	30				
Bromomethane	112	116	42-168	2	30				
2-Butanone	85	96	37-163	7	30				
n-Butylbenzene	81	82	30-146	5	30				
sec-Butylbenzene	109	113	33-157	3	30				
tert-Butylbenzene	127	123	41-152	9	30				
Carbon Disulfide	76	75	48-146	6	30				
Carbon Tetrachloride	108	108	51-165	5	30				
Chlorobenzene	99	98	49-135	6	30				
Chloroethane	106	110	39-152	1	30				
Chloroform	108	112	61-142	2	30				
Chloromethane	116	123	36-143	0	30				
2-Chlorotoluene	128	126	42-146	7	30				
4-Chlorotoluene	115	111	39-145	9	30				
1,2-Dibromo-3-chloropropane	94	106	34-165	7	30				
Dibromochloromethane	102	105	51-128	2	30				
1,2-Dibromoethane	98	105	54-129	1	30				
Dibromomethane	90	97	57-130	3	30				
Dichlorodifluoromethane	130	135	26-151	2	30				
1,1-Dichloroethane	105	109	63-142	2	30				
1,2-Dichloroethane	100	105	54-143	1	30				
1,1-Dichloroethene	98	99	61-149	4	30				
cis-1,2-Dichloroethene	102	103	67-135	5	30				
trans-1,2-Dichloroethene	100	102	64-144	4	30				
1,2-Dichloropropane	106	111	54-144	1	30				
1,3-Dichloropropane	109	114	51-140	1	30				
2,2-Dichloropropane	114	116	53-147	4	30				
1,1-Dichloropropene	92	94	54-145	4	30				
cis-1,3-Dichloropropene	81	85	45-137	0	30				
trans-1,3-Dichloropropene	94	98	51-134	1	30				
Ethylbenzene	108	105	44-141	9	30				
2-Hexanone	91	105	32-160	8	30				
Isopropylbenzene	96	95	38-144	6	30				
p-Isopropyltoluene	115	122	29-152	0	30				
Methyl Tertiary Butyl Ether	95	104	55-129	3	30				
4-Methyl-2-pentanone	83	95	46-139	7	30				
Methylene Chloride	106	108	60-149	4	30				
n-Propylbenzene	131	127	39-157	8	30				
Styrene	84	86	35-134	3	30				
1,1,1,2-Tetrachloroethane	119	118	55-139	6	30				
1,1,2,2-Tetrachloroethane	144	152	29-182	1	30				
Tetrachloroethene	24*	14*	42-149	10	30				
Toluene	118	116	50-146	8	30				
1,2,3-Trichlorobenzene	28	34	10-140	13	30				
1,1,1-Trichloroethane	101	102	52-146	5	30				
1,1,2-Trichloroethane	115	122	58-152	0	30				
Trichloroethene	99	99	53-144	5	30				
Trichlorofluoromethane	121	124	47-163	3	30				
1,2,3-Trichloropropane	154	158	36-180	3	30				
1,2,4-Trimethylbenzene	121	117	37-149	9	30				
1,3,5-Trimethylbenzene	129	126	38-150	8	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Vinyl Chloride	120	124	50-154	2	30			
m+p-Xylene	104	101	44-137	8	30			
o-Xylene	97	96	42-137	6	30			

Batch number: 15176SLF026	Sample number(s): 7941563-7941565,7941567-7941571 UNSPK: 7941563
Acenaphthene	93 95 45-141 2 30
Acenaphthylene	100 99 53-143 0 30
Anthracene	97 97 42-147 0 30
Benidine	0* 0* 35-141 0 30
Benzo(a)anthracene	88 91 32-150 3 30
Benzo(a)pyrene	91 93 36-151 2 30
Benzo(b)fluoranthene	92 90 29-150 3 30
Benzo(g,h,i)perylene	96 102 41-147 6 30
Benzo(k)fluoranthene	84 87 35-146 3 30
Benzoic acid	67 69 23-170 3 30
Benzyl alcohol	84 88 74-123 4 30
4-Bromophenyl-phenylether	95 98 48-146 3 30
Butylbenzylphthalate	88 92 50-137 4 30
Di-n-butylphthalate	90 90 65-126 0 30
Carbazole	90 89 36-143 1 30
4-Chloro-3-methylphenol	78 76 48-141 3 30
4-Chloroaniline	45 44 10-100 3 30
bis(2-Chloroethoxy)methane	84 82 64-119 2 30
bis(2-Chloroethyl)ether	80 84 63-122 5 30
2-Chloronaphthalene	98 87 40-156 12 30
2-Chlorophenol	94 99 50-142 5 30
4-Chlorophenyl-phenylether	87 88 49-135 1 30
2,2'-oxybis(1-Chloropropane)	80 88 60-120 10 30
Chrysene	86 90 28-146 4 30
Dibenz(a,h)anthracene	93 97 38-156 5 30
Dibenzofuran	94 93 34-146 1 30
1,2-Dichlorobenzene	87 95 51-130 9 30
1,3-Dichlorobenzene	82 91 51-125 10 30
1,4-Dichlorobenzene	82 91 50-127 11 30
3,3'-Dichlorobenzidine	39 43 10-143 7 30
2,4-Dichlorophenol	92 90 46-145 2 30
Diethylphthalate	85 86 61-124 1 30
2,4-Dimethylphenol	64 54 38-140 16 30
Dimethylphthalate	87 87 59-124 0 30
4,6-Dinitro-2-methylphenol	95 82 10-148 14 30
2,4-Dinitrophenol	83 67 20-143 21 30
2,4-Dinitrotoluene	89 89 37-149 0 30
2,6-Dinitrotoluene	91 95 54-134 4 30
bis(2-Ethylhexyl)phthalate	91 99 60-133 8 30
Fluoranthene	84 82 41-135 2 30
Fluorene	93 92 43-146 1 30
Hexachlorobenzene	98 98 36-150 1 30
Hexachlorobutadiene	82 80 65-125 2 30
Hexachlorocyclopentadiene	69 62 10-153 11 30
Hexachloroethane	84 88 37-143 4 30
Indeno(1,2,3-cd)pyrene	94 95 35-151 1 30
Isophorone	80 79 68-119 2 30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Methylnaphthalene	88	87	39-140	1	30				
2-Methylphenol	81	84	36-149	4	30				
4-Methylphenol	76	79	46-135	3	30				
Naphthalene	90	91	39-147	1	30				
2-Nitroaniline	102	103	46-152	1	30				
3-Nitroaniline	90	95	31-145	5	30				
4-Nitroaniline	79	80	30-131	1	30				
Nitrobenzene	73	72	54-131	2	30				
2-Nitrophenol	96	100	38-150	4	30				
4-Nitrophenol	67	65	25-142	4	30				
N-Nitroso-di-n-propylamine	70	76	58-126	9	30				
N-Nitrosodiphenylamine	93	95	41-147	2	30				
Di-n-octylphthalate	94	90	53-156	4	30				
Pentachlorophenol	86	80	23-145	7	30				
Phenanthrene	96	97	42-141	1	30				
Phenol	78	81	53-129	3	30				
Pyrene	89	93	37-140	4	30				
1,2,4-Trichlorobenzene	89	88	45-139	1	30				
2,4,5-Trichlorophenol	91	96	42-144	6	30				
2,4,6-Trichlorophenol	94	94	43-145	1	30				

Batch number: 151775708005	Sample number(s): 7941563-7941571	UNSPK: 7941563	BKG: 7941563						
Aluminum	712 (2)	1254 (2)	75-125	11	20	8,400	11,200	29*	20
Antimony	82	80	75-125	1	20	1.07	0.461	J 79* (1)	20
Arsenic	34*	24*	75-125	6	20	21.1	9.42	J 77* (1)	20
Barium	97	106	75-125	7	20	92.9	151	48*	20
Beryllium	102	103	75-125	2	20	0.562	0.532	5 (1)	20
Cadmium	88	95	75-125	7	20	1.40	0.712	65* (1)	20
Calcium	1691 (2)	368 (2)	75-125	68*	20	3,470	3,590	3	20
Chromium	80	121	75-125	20	20	22.7	22.6	0	20
Cobalt	95	99	75-125	5	20	6.55	6.65	1	20
Copper	90	224*	75-125	52*	20	26.4	23.6	11	20
Iron	-7559 (2)	-6355 (2)	75-125	7	20	22,000	14,600	41*	20
Lead	-94 (2)	116 (2)	75-125	25*	20	120	253	71*	20
Magnesium	929 (2)	491 (2)	75-125	23*	20	2,180	2,480	13	20
Manganese	-66 (2)	19 (2)	75-125	8	20	521	476	9	20
Nickel	95	107	75-125	11	20	15.7	16.7	6	20
Potassium	149*	185*	75-125	14	20	1,160	1,430	21*	20
Selenium	96	93	75-125	2	20	2.19	0.927	J 81* (1)	20
Silver	102	103	75-125	3	20	0.771	0.536	36* (1)	20
Sodium	103	104	75-125	2	20	64.1	60.2	J 6 (1)	20
Thallium	114	114	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	105	107	75-125	2	20	22.8	24.8	8	20
Zinc	107 (2)	-44 (2)	75-125	28*	20	248	140	56*	20

Batch number: 151775711006	Sample number(s): 7941563-7941571	UNSPK: 7941563	BKG: 7941563						
Mercury	135*	99	80-120	26*	20	0.0356	0.0393	J 10 (1)	20

Batch number: 15180820006B Sample number(s): 7941567-7941571 BKG: P941563

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>	
Moisture					7.4	8.8	17*	5	
Batch number: 15181820001A	Sample number(s): 7941563-7941566				BKG: 7941563				
Moisture					10.7	10.0	6*	5	
Moisture					10.7	10.0	6*	5	
Moisture Duplicate					10.7	10.0	6*	5	

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: A151781AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7941564	101	101	109	90
7941565	102	100	112	88
7941569	110	106	107	78
7941570	109	106	100	87
7941571	117	112	140	53
Blank	105	102	99	91
LCS	101	102	103	99
MS	101	101	109	90
MSD	102	100	112	88
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: A151781AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7941563	106	109	100	92
Blank	107	107	96	89
LCS	102	106	102	98
MS	101	101	109	90
MSD	102	100	112	88
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- Solid by 8260B
Batch number: A151791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7941567	110	108	101	87
7941568	110	106	99	89
Blank	107	107	96	89
LCS	102	106	102	98
LCSD	101	102	102	97
MS	105	104	121	79
MSD	105	104	118	82
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 18:28

Group Number: 1571670

Surrogate Quality Control

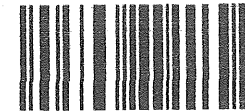
Analysis Name: SVOA 8270D (microwave)
Batch number: 15176SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7941563	80	87	80	68	84	88
7941564	81	87	88	72	92	93
7941565	85	93	84	72	95	93
7941567	80	88	76	71	91	92
7941568	82	91	83	73	96	93
7941569	85	92	80	70	89	90
7941570	89	99	91	74	95	97
7941571	89	97	83	74	95	96
Blank	87	98	96	71	92	100
LCS	89	98	99	76	97	97
MS	81	87	88	72	92	93
MSD	85	93	84	72	95	93
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



366253



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1571670 Sample # 7941563-71
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only	
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Other:		Total # of Containers		Preservation Codes				FSC: _____	
Project Name/#: <u>CHR 8417</u>		PWSID #:						VOCs 82608 SVOCs 82700 TAL Metals + 67				SCR#: _____	
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:										Preservation Codes	
Sampler: <u>Verbis</u>		Quote #:										H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other	
Name of state where samples were collected: <u>IN</u>				3		Grab		Composite		6 Remarks			
2 Sample Identification		Collected		Soil		Water		Other:					
		Date	Time	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>					
PLA-S-FS-SB08-0-1		23 Jun 15	0830	<input checked="" type="checkbox"/>									
PLA-S-FS-SB08-0-1 MS			0830	<input checked="" type="checkbox"/>									
PLA-S-FS-SB08-0-1 MSD			0830	<input checked="" type="checkbox"/>									
PLA-S-FS-SB08-7-8'			0840	<input checked="" type="checkbox"/>									
PLA-S-FS-SB08-18-19'			0945	<input checked="" type="checkbox"/>									
PLA-S-FS-SB07-0-1			1045	<input checked="" type="checkbox"/>									
PLA-S-FS-SB07-7-8'			1050	<input checked="" type="checkbox"/>									
PLA-S-FS-SB07-15-16'			1130	<input checked="" type="checkbox"/>									
PLA-S-FS ²⁰⁰⁷ LT-SB06-0-1			1255	<input checked="" type="checkbox"/>									
PLA-S-LT-SB06-0-1 MS			1255	<input checked="" type="checkbox"/>									
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time	8	
Standard						23 Jun 15	1650			6/23/15	16:58		
Rush 5 day PM (Rush TAT is subject to laboratory approval and surcharge.)						6/23/15	17:11						
Date results are needed: _____													
E-mail address: <u>dkulczykcki@geosyntec.com</u>													
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by		Date	Time		
Type I (Validation/non-CLP) Type VI (Raw Data Only)										6/24/15	0820		
Type III (Reduced non-CLP) TX TRRP-13													
NYSDEC Category A or B MA MCP CT RCP													
				EDD Required? <input checked="" type="checkbox"/> Yes No				Relinquished by Commercial Carrier:					
				If yes, format: _____				UPS _____ FedEx <input checked="" type="checkbox"/> Other _____					
				Site-Specific QC (MS/MSD/Dup)? <input checked="" type="checkbox"/> Yes No				Temperature upon receipt <u>0.3-0.0</u> °C					
				(If yes, indicate QC sample and submit triplicate sample volume.)									

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 06, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/24/2015

Group Number: 1571673

SDG: NWP21

PO Number: 201506111740

State of Sample Origin: IN

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
PLA-S-LT-SB06-0-1 Grab Soil	7941580
PLA-S-LT-SB06-0-1-MS Grab Soil	7941581
PLA-S-LT-SB06-0-1-MSD Grab Soil	7941582
PLA-S-LT-SB06-0-1-DUP Grab Soil	7941583
PLA-S-LT-SB06-6-7 Grab Soil	7941584
PLA-S-LT-SB06-15-16 Grab Soil	7941585
PLA-CS-George_bldg-A7 Grab Concrete	7941586
TB-062315-S1 Water	7941587
TB-062315-C1 Water	7941588
DUP-062315-001 Grab Soil	7941589

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec

Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: PLA-S-LT-SB06-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941580
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.86
10237	Benzene	71-43-2	N.D.	0.5	0.86
10237	Bromobenzene	108-86-1	N.D.	1	0.86
10237	Bromochloromethane	74-97-5	N.D.	1	0.86
10237	Bromodichloromethane	75-27-4	N.D.	1	0.86
10237	Bromoform	75-25-2	N.D.	1	0.86
10237	Bromomethane	74-83-9	N.D.	2	0.86
10237	2-Butanone	78-93-3	N.D.	4	0.86
10237	n-Butylbenzene	104-51-8	N.D.	1	0.86
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.86
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.86
10237	Carbon Disulfide	75-15-0	N.D.	1	0.86
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.86
10237	Chlorobenzene	108-90-7	N.D.	1	0.86
10237	Chloroethane	75-00-3	N.D.	2	0.86
10237	Chloroform	67-66-3	N.D.	1	0.86
10237	Chloromethane	74-87-3	N.D.	2	0.86
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.86
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.86
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.86
10237	Dibromochloromethane	124-48-1	N.D.	1	0.86
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.86
10237	Dibromomethane	74-95-3	N.D.	1	0.86
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.86
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.86
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.86
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.86
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.86
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.86
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.86
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.86
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.86
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.86
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.86
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.86
10237	Ethylbenzene	100-41-4	N.D.	1	0.86
10237	2-Hexanone	591-78-6	N.D.	3	0.86
10237	Isopropylbenzene	98-82-8	N.D.	1	0.86
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.86
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.86
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.86
10237	Methylene Chloride	75-09-2	N.D.	2	0.86
10237	n-Propylbenzene	103-65-1	N.D.	1	0.86
10237	Styrene	100-42-5	N.D.	1	0.86
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.86
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.86
10237	Tetrachloroethene	127-18-4	N.D.	1	0.86
10237	Toluene	108-88-3	N.D.	1	0.86
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.86
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.86

Sample Description: PLA-S-LT-SB06-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941580
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

Geosyntec

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1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.86
10237	Trichloroethene	79-01-6	N.D.	1	0.86
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.86
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.86
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.86
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.86
10237	Vinyl Chloride	75-01-4	N.D.	1	0.86
10237	m+p-Xylene	179601-23-1	N.D.	1	0.86
10237	o-Xylene	95-47-6	N.D.	1	0.86
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	4 J	4	1
10726	Benzidine	92-87-5	N.D.	780	1
10726	Benzo(a)anthracene	56-55-3	22	4	1
10726	Benzo(a)pyrene	50-32-8	32	4	1
10726	Benzo(b)fluoranthene	205-99-2	42	4	1
10726	Benzo(g,h,i)perylene	191-24-2	42	4	1
10726	Benzo(k)fluoranthene	207-08-9	21	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	74	1
10726	Di-n-butylphthalate	84-74-2	N.D.	74	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	39	4	1
10726	Dibenz(a,h)anthracene	53-70-3	11 J	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	74	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	74	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-S-LT-SB06-0-1 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941580
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	74	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	74	1
10726	Fluoranthene	206-44-0	45	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	29	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	74	1
10726	4-Nitroaniline	100-01-6	N.D.	74	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	74	1
10726	Pentachlorophenol	87-86-5	N.D.	37	1
10726	Phenanthrene	85-01-8	21	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	45	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals	SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,850	4.97
06944	Antimony	7440-36-0	2.48	0.362
06935	Arsenic	7440-38-2	8.73	0.701
06946	Barium	7440-39-3	28.9	0.0362

Sample Description: PLA-S-LT-SB06-0-1 Grab Soil
LaPorte, IN
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Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06947	Beryllium	7440-41-7	0.550	0.0734	1
06949	Cadmium	7440-43-9	N.D.	0.0362	1
01650	Calcium	7440-70-2	5,060	4.15	1
06951	Chromium	7440-47-3	12.6	0.121	1
06952	Cobalt	7440-48-4	8.72	0.105	1
06953	Copper	7440-50-8	25.9	0.362	1
01654	Iron	7439-89-6	17,300	3.66	1
06955	Lead	7439-92-1	21.9	0.548	1
01657	Magnesium	7439-95-4	4,300	1.83	1
06958	Manganese	7439-96-5	342	0.0910	1
06961	Nickel	7440-02-0	19.3	0.164	1
01662	Potassium	7440-09-7	1,910	14.2	1
06936	Selenium	7782-49-2	2.46	0.482	1
06966	Silver	7440-22-4	0.724	0.208	1
01667	Sodium	7440-23-5	84.2 J	18.3	1
06925	Thallium	7440-28-0	N.D.	0.877	1
06971	Vanadium	7440-62-2	21.3	0.0997	1
06972	Zinc	7440-66-6	127	0.285	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0236 J	0.0106	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	11.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 20:48	Kathrine K Muramatsu	0.86
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 12:55	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLG026	06/28/2015 14:57	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLG026	06/26/2015 07:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 20:34	Suzanne M Will	1

Sample Description: PLA-S-LT-SB06-0-1 Grab Soil
LaPorte, IN
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PLT60 SDG#: NWP21-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015	20:34	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015	15:55	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015	09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015	13:04	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015	16:49	Susan A Engle	1

Sample Description: PLA-S-LT-SB06-0-1-MS Grab Soil
LaPorte, IN
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Oakbrook IL 60523

PLT60 SDG#: NWP21-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	220	8	1.06
10237	Benzene	71-43-2	21	0.6	1.06
10237	Bromobenzene	108-86-1	20	1	1.06
10237	Bromochloromethane	74-97-5	24	1	1.06
10237	Bromodichloromethane	75-27-4	20	1	1.06
10237	Bromoform	75-25-2	16	1	1.06
10237	Bromomethane	74-83-9	22	2	1.06
10237	2-Butanone	78-93-3	130	5	1.06
10237	n-Butylbenzene	104-51-8	11	1	1.06
10237	sec-Butylbenzene	135-98-8	14	1	1.06
10237	tert-Butylbenzene	98-06-6	16	1	1.06
10237	Carbon Disulfide	75-15-0	20	1	1.06
10237	Carbon Tetrachloride	56-23-5	22	1	1.06
10237	Chlorobenzene	108-90-7	18	1	1.06
10237	Chloroethane	75-00-3	22	2	1.06
10237	Chloroform	67-66-3	23	1	1.06
10237	Chloromethane	74-87-3	25	2	1.06
10237	2-Chlorotoluene	95-49-8	19	1	1.06
10237	4-Chlorotoluene	106-43-4	18	1	1.06
10237	1,2-Dibromo-3-chloropropane	96-12-8	16	2	1.06
10237	Dibromochloromethane	124-48-1	19	1	1.06
10237	1,2-Dibromoethane	106-93-4	21	1	1.06
10237	Dibromomethane	74-95-3	21	1	1.06
10237	Dichlorodifluoromethane	75-71-8	27	2	1.06
10237	1,1-Dichloroethane	75-34-3	23	1	1.06
10237	1,2-Dichloroethane	107-06-2	22	1	1.06
10237	1,1-Dichloroethene	75-35-4	24	1	1.06
10237	cis-1,2-Dichloroethene	156-59-2	22	1	1.06
10237	trans-1,2-Dichloroethene	156-60-5	23	1	1.06
10237	1,2-Dichloropropane	78-87-5	22	1	1.06
10237	1,3-Dichloropropane	142-28-9	21	1	1.06
10237	2,2-Dichloropropane	594-20-7	23	1	1.06
10237	1,1-Dichloropropene	563-58-6	20	1	1.06
10237	cis-1,3-Dichloropropene	10061-01-5	16	1	1.06
10237	trans-1,3-Dichloropropene	10061-02-6	19	1	1.06
10237	Ethylbenzene	100-41-4	17	1	1.06
10237	2-Hexanone	591-78-6	86	4	1.06
10237	Isopropylbenzene	98-82-8	14	1	1.06
10237	p-Isopropyltoluene	99-87-6	13	1	1.06
10237	Methyl Tertiary Butyl Ether	1634-04-4	22	0.6	1.06
10237	4-Methyl-2-pentanone	108-10-1	91	4	1.06
10237	Methylene Chloride	75-09-2	25	2	1.06
10237	n-Propylbenzene	103-65-1	18	1	1.06
10237	Styrene	100-42-5	16	1	1.06
10237	1,1,1,2-Tetrachloroethane	630-20-6	20	1	1.06
10237	1,1,2,2-Tetrachloroethane	79-34-5	23	1	1.06
10237	Tetrachloroethene	127-18-4	19	1	1.06
10237	Toluene	108-88-3	21	1	1.06
10237	1,2,3-Trichlorobenzene	87-61-6	5	J	1.06
10237	1,1,1-Trichloroethane	71-55-6	22	1	1.06

Sample Description: PLA-S-LT-SB06-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941581
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PLT60 SDG#: NWP21-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	22	1	1.06
10237	Trichloroethene	79-01-6	20	1	1.06
10237	Trichlorofluoromethane	75-69-4	24	2	1.06
10237	1,2,3-Trichloropropane	96-18-4	25	1	1.06
10237	1,2,4-Trimethylbenzene	95-63-6	17	1	1.06
10237	1,3,5-Trimethylbenzene	108-67-8	17	1	1.06
10237	Vinyl Chloride	75-01-4	25	1	1.06
10237	m+p-Xylene	179601-23-1	34	1	1.06
10237	o-Xylene	95-47-6	16	1	1.06
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,800	4	1
10726	Acenaphthylene	208-96-8	1,900	4	1
10726	Anthracene	120-12-7	1,900	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	1,600	4	1
10726	Benzo(a)pyrene	50-32-8	1,700	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,600	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,800	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,600	4	1
10726	Benzoic acid	65-85-0	2,100	190	1
10726	Benzyl alcohol	100-51-6	1,600	190	1
10726	4-Bromophenyl-phenylether	101-55-3	1,900	19	1
10726	Butylbenzylphthalate	85-68-7	1,700	75	1
10726	Di-n-butylphthalate	84-74-2	1,700	75	1
10726	Carbazole	86-74-8	1,700	19	1
10726	4-Chloro-3-methylphenol	59-50-7	1,500	19	1
10726	4-Chloroaniline	106-47-8	990	37	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,500	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,500	19	1
10726	2-Chloronaphthalene	91-58-7	2,200	8	1
10726	2-Chlorophenol	95-57-8	1,900	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,600	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,600	19	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	1,700	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,800	4	1
10726	Dibenzofuran	132-64-9	1,700	19	1
10726	1,2-Dichlorobenzene	95-50-1	1,800	19	1
10726	1,3-Dichlorobenzene	541-73-1	1,700	19	1
10726	1,4-Dichlorobenzene	106-46-7	1,700	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	1,100	110	1
10726	2,4-Dichlorophenol	120-83-2	1,700	19	1
10726	Diethylphthalate	84-66-2	1,600	75	1
10726	2,4-Dimethylphenol	105-67-9	1,300	19	1
10726	Dimethylphthalate	131-11-3	1,700	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	910	190	1

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1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	1,200	340	1
10726	2,4-Dinitrotoluene	121-14-2	1,600	75	1
10726	2,6-Dinitrotoluene	606-20-2	1,700	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	75	1
10726	Fluoranthene	206-44-0	1,500	4	1
10726	Fluorene	86-73-7	1,700	4	1
10726	Hexachlorobenzene	118-74-1	1,900	4	1
10726	Hexachlorobutadiene	87-68-3	1,500	19	1
10726	Hexachlorocyclopentadiene	77-47-4	1,800	190	1
10726	Hexachloroethane	67-72-1	1,500	37	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	4	1
10726	Isophorone	78-59-1	1,500	19	1
10726	2-Methylnaphthalene	91-57-6	1,600	4	1
10726	2-Methylphenol	95-48-7	1,600	19	1
10726	4-Methylphenol	106-44-5	1,500	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	1,800	4	1
10726	2-Nitroaniline	88-74-4	1,900	19	1
10726	3-Nitroaniline	99-09-2	1,700	75	1
10726	4-Nitroaniline	100-01-6	1,500	75	1
10726	Nitrobenzene	98-95-3	1,400	19	1
10726	2-Nitrophenol	88-75-5	1,700	19	1
10726	4-Nitrophenol	100-02-7	1,200	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,300	19	1
10726	N-Nitrosodiphenylamine	86-30-6	1,900	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	1,700	75	1
10726	Pentachlorophenol	87-86-5	1,600	37	1
10726	Phenanthrene	85-01-8	1,800	4	1
10726	Phenol	108-95-2	1,500	19	1
10726	Pyrene	129-00-0	1,600	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,700	19	1
10726	2,4,5-Trichlorophenol	95-95-4	1,800	19	1
10726	2,4,6-Trichlorophenol	88-06-2	1,800	19	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,200	4.88	1
06944	Antimony	7440-36-0	47.8	0.355	1
06935	Arsenic	7440-38-2	26.4	0.688	1
06946	Barium	7440-39-3	244	0.0355	1
06947	Beryllium	7440-41-7	6.38	0.0720	1
06949	Cadmium	7440-43-9	5.07	0.0355	1
01650	Calcium	7440-70-2	5,060	4.07	1
06951	Chromium	7440-47-3	36.2	0.118	1
06952	Cobalt	7440-48-4	61.4	0.103	1
06953	Copper	7440-50-8	56.1	0.355	1

Sample Description: PLA-S-LT-SB06-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941581
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	20,800	3.59	1
06955	Lead	7439-92-1	39.8	0.537	1
01657	Magnesium	7439-95-4	4,590	1.80	1
06958	Manganese	7439-96-5	457	0.0892	1
06961	Nickel	7440-02-0	72.1	0.161	1
01662	Potassium	7440-09-7	3,820	14.0	1
06936	Selenium	7782-49-2	19.2	0.473	1
06966	Silver	7440-22-4	5.71	0.204	1
01667	Sodium	7440-23-5	1,240	18.0	1
06925	Thallium	7440-28-0	17.0	0.860	1
06971	Vanadium	7440-62-2	82.5	0.0978	1
06972	Zinc	7440-66-6	196	0.279	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.221	0.0109	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	11.4	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 21:11	Kathrine K Muramatsu	1.06
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 12:55	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLG026	06/28/2015 15:20	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLG026	06/26/2015 07:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015 20:43	Suzanne M Will	1

Sample Description: PLA-S-LT-SB06-0-1-MS Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941581
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

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1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015	20:43	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015	16:01	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015	09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015	13:04	James L Mertz	1
00118	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015	16:49	Susan A Engle	1

Sample Description: PLA-S-LT-SB06-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941582
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	180	7	0.94
10237	Benzene	71-43-2	18	0.5	0.94
10237	Bromobenzene	108-86-1	16	1	0.94
10237	Bromochloromethane	74-97-5	20	1	0.94
10237	Bromodichloromethane	75-27-4	16	1	0.94
10237	Bromoform	75-25-2	12	1	0.94
10237	Bromomethane	74-83-9	20	2	0.94
10237	2-Butanone	78-93-3	110	4	0.94
10237	n-Butylbenzene	104-51-8	9	1	0.94
10237	sec-Butylbenzene	135-98-8	11	1	0.94
10237	tert-Butylbenzene	98-06-6	13	1	0.94
10237	Carbon Disulfide	75-15-0	18	1	0.94
10237	Carbon Tetrachloride	56-23-5	18	1	0.94
10237	Chlorobenzene	108-90-7	15	1	0.94
10237	Chloroethane	75-00-3	20	2	0.94
10237	Chloroform	67-66-3	19	1	0.94
10237	Chloromethane	74-87-3	22	2	0.94
10237	2-Chlorotoluene	95-49-8	15	1	0.94
10237	4-Chlorotoluene	106-43-4	14	1	0.94
10237	1,2-Dibromo-3-chloropropane	96-12-8	12	2	0.94
10237	Dibromochloromethane	124-48-1	15	1	0.94
10237	1,2-Dibromoethane	106-93-4	16	1	0.94
10237	Dibromomethane	74-95-3	17	1	0.94
10237	Dichlorodifluoromethane	75-71-8	24	2	0.94
10237	1,1-Dichloroethane	75-34-3	20	1	0.94
10237	1,2-Dichloroethane	107-06-2	19	1	0.94
10237	1,1-Dichloroethene	75-35-4	20	1	0.94
10237	cis-1,2-Dichloroethene	156-59-2	19	1	0.94
10237	trans-1,2-Dichloroethene	156-60-5	20	1	0.94
10237	1,2-Dichloropropane	78-87-5	18	1	0.94
10237	1,3-Dichloropropane	142-28-9	17	1	0.94
10237	2,2-Dichloropropane	594-20-7	20	1	0.94
10237	1,1-Dichloropropene	563-58-6	17	1	0.94
10237	cis-1,3-Dichloropropene	10061-01-5	14	1	0.94
10237	trans-1,3-Dichloropropene	10061-02-6	16	1	0.94
10237	Ethylbenzene	100-41-4	14	1	0.94
10237	2-Hexanone	591-78-6	68	3	0.94
10237	Isopropylbenzene	98-82-8	11	1	0.94
10237	p-Isopropyltoluene	99-87-6	10	1	0.94
10237	Methyl Tertiary Butyl Ether	1634-04-4	19	0.5	0.94
10237	4-Methyl-2-pentanone	108-10-1	74	3	0.94
10237	Methylene Chloride	75-09-2	24	2	0.94
10237	n-Propylbenzene	103-65-1	14	1	0.94
10237	Styrene	100-42-5	12	1	0.94
10237	1,1,1,2-Tetrachloroethane	630-20-6	15	1	0.94
10237	1,1,2,2-Tetrachloroethane	79-34-5	18	1	0.94
10237	Tetrachloroethene	127-18-4	15	1	0.94
10237	Toluene	108-88-3	17	1	0.94
10237	1,2,3-Trichlorobenzene	87-61-6	4	1	0.94
10237	1,1,1-Trichloroethane	71-55-6	19	1	0.94

Sample Description: PLA-S-LT-SB06-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941582
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	17	1	0.94
10237	Trichloroethene	79-01-6	17	1	0.94
10237	Trichlorofluoromethane	75-69-4	21	2	0.94
10237	1,2,3-Trichloropropane	96-18-4	21	1	0.94
10237	1,2,4-Trimethylbenzene	95-63-6	14	1	0.94
10237	1,3,5-Trimethylbenzene	108-67-8	14	1	0.94
10237	Vinyl Chloride	75-01-4	23	1	0.94
10237	m+p-Xylene	179601-23-1	26	1	0.94
10237	o-Xylene	95-47-6	13	1	0.94
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	1,800	4	1
10726	Acenaphthylene	208-96-8	1,900	4	1
10726	Anthracene	120-12-7	1,900	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	1,700	4	1
10726	Benzo(a)pyrene	50-32-8	1,600	4	1
10726	Benzo(b)fluoranthene	205-99-2	1,600	4	1
10726	Benzo(g,h,i)perylene	191-24-2	1,900	4	1
10726	Benzo(k)fluoranthene	207-08-9	1,400	4	1
10726	Benzoic acid	65-85-0	2,000	190	1
10726	Benzyl alcohol	100-51-6	1,500	190	1
10726	4-Bromophenyl-phenylether	101-55-3	1,900	19	1
10726	Butylbenzylphthalate	85-68-7	1,700	75	1
10726	Di-n-butylphthalate	84-74-2	1,700	75	1
10726	Carbazole	86-74-8	1,700	19	1
10726	4-Chloro-3-methylphenol	59-50-7	1,400	19	1
10726	4-Chloroaniline	106-47-8	1,100	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	1,600	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	1,500	19	1
10726	2-Chloronaphthalene	91-58-7	2,100	8	1
10726	2-Chlorophenol	95-57-8	1,800	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	1,600	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	1,500	19	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
10726	Chrysene	218-01-9	1,700	4	1
10726	Dibenz(a,h)anthracene	53-70-3	1,700	4	1
10726	Dibenzofuran	132-64-9	1,700	19	1
10726	1,2-Dichlorobenzene	95-50-1	1,700	19	1
10726	1,3-Dichlorobenzene	541-73-1	1,600	19	1
10726	1,4-Dichlorobenzene	106-46-7	1,500	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	1,200	110	1
10726	2,4-Dichlorophenol	120-83-2	1,700	19	1
10726	Diethylphthalate	84-66-2	1,600	75	1
10726	2,4-Dimethylphenol	105-67-9	1,300	19	1
10726	Dimethylphthalate	131-11-3	1,600	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	750	190	1

Sample Description: PLA-S-LT-SB06-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941582
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

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Submitted: 06/24/2015 09:20

1420 Kensington Road

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Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	1,100	340	1
10726	2,4-Dinitrotoluene	121-14-2	1,500	75	1
10726	2,6-Dinitrotoluene	606-20-2	1,700	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	1,200	75	1
10726	Fluoranthene	206-44-0	1,500	4	1
10726	Fluorene	86-73-7	1,700	4	1
10726	Hexachlorobenzene	118-74-1	1,800	4	1
10726	Hexachlorobutadiene	87-68-3	1,500	19	1
10726	Hexachlorocyclopentadiene	77-47-4	1,500	190	1
10726	Hexachloroethane	67-72-1	1,500	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	1,700	4	1
10726	Isophorone	78-59-1	1,400	19	1
10726	2-Methylnaphthalene	91-57-6	1,600	4	1
10726	2-Methylphenol	95-48-7	1,500	19	1
10726	4-Methylphenol	106-44-5	1,400	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	1,700	4	1
10726	2-Nitroaniline	88-74-4	1,900	19	1
10726	3-Nitroaniline	99-09-2	1,700	75	1
10726	4-Nitroaniline	100-01-6	1,600	75	1
10726	Nitrobenzene	98-95-3	1,400	19	1
10726	2-Nitrophenol	88-75-5	1,800	19	1
10726	4-Nitrophenol	100-02-7	1,200	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	1,200	19	1
10726	N-Nitrosodiphenylamine	86-30-6	2,000	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	1,600	75	1
10726	Pentachlorophenol	87-86-5	1,500	38	1
10726	Phenanthrene	85-01-8	1,800	4	1
10726	Phenol	108-95-2	1,400	19	1
10726	Pyrene	129-00-0	1,700	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	1,700	19	1
10726	2,4,5-Trichlorophenol	95-95-4	1,700	19	1
10726	2,4,6-Trichlorophenol	88-06-2	1,900	19	1
Metals SW-846 6010B			mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,700	5.02	1
06944	Antimony	7440-36-0	50.3	0.365	1
06935	Arsenic	7440-38-2	26.7	0.708	1
06946	Barium	7440-39-3	254	0.0365	1
06947	Beryllium	7440-41-7	6.51	0.0741	1
06949	Cadmium	7440-43-9	5.40	0.0365	1
01650	Calcium	7440-70-2	4,890	4.19	1
06951	Chromium	7440-47-3	37.8	0.122	1
06952	Cobalt	7440-48-4	62.6	0.106	1
06953	Copper	7440-50-8	54.3	0.365	1

Sample Description: PLA-S-LT-SB06-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941582
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01654	Iron	7439-89-6	17,300	3.70	1
06955	Lead	7439-92-1	46.9	0.553	1
01657	Magnesium	7439-95-4	4,140	1.85	1
06958	Manganese	7439-96-5	407	0.0918	1
06961	Nickel	7440-02-0	73.6	0.166	1
01662	Potassium	7440-09-7	4,040	14.4	1
06936	Selenium	7782-49-2	18.9	0.487	1
06966	Silver	7440-22-4	5.67	0.210	1
01667	Sodium	7440-23-5	1,270	18.5	1
06925	Thallium	7440-28-0	17.3	0.885	1
06971	Vanadium	7440-62-2	83.9	0.101	1
06972	Zinc	7440-66-6	176	0.288	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.224	0.0111	1
Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	11.4	0.50	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 21:33	Kathrine K Muramatsu	0.94
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 12:55	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLG026	06/28/2015 15:44	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLG026	06/26/2015 07:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015 20:46	Suzanne M Will	1

Sample Description: PLA-S-LT-SB06-0-1-MSD Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941582
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT60 SDG#: NWP21-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015	20:46	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015	16:03	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015	09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015	13:04	James L Mertz	1
00118	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015	16:49	Susan A Engle	1

Sample Description: PLA-S-LT-SB06-0-1-DUP Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941583
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

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Submitted: 06/24/2015 09:20

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Oakbrook IL 60523

PLT60 SDG#: NWP21-01DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01643	Aluminum	7429-90-5	8,710	5.02	1
06944	Antimony	7440-36-0	2.51	0.365	1
06935	Arsenic	7440-38-2	8.65	0.708	1
06946	Barium	7440-39-3	30.9	0.0365	1
06947	Beryllium	7440-41-7	0.610	0.0741	1
06949	Cadmium	7440-43-9	N.D.	0.0365	1
01650	Calcium	7440-70-2	4,550	4.19	1
06951	Chromium	7440-47-3	14.5	0.122	1
06952	Cobalt	7440-48-4	9.41	0.106	1
06953	Copper	7440-50-8	26.4	0.365	1
01654	Iron	7439-89-6	18,800	3.70	1
06955	Lead	7439-92-1	23.2	0.553	1
01657	Magnesium	7439-95-4	4,160	1.85	1
06958	Manganese	7439-96-5	370	0.0918	1
06961	Nickel	7440-02-0	21.1	0.166	1
01662	Potassium	7440-09-7	2,180	14.4	1
06936	Selenium	7782-49-2	3.04	0.487	1
06966	Silver	7440-22-4	0.554	0.210	1
01667	Sodium	7440-23-5	94.7 J	18.5	1
06925	Thallium	7440-28-0	0.891 J	0.885	1
06971	Vanadium	7440-62-2	22.7	0.101	1
06972	Zinc	7440-66-6	139	0.288	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0277 J	0.0109	1

Wet Chemistry			SM 2540 G-1997	%	
00118	Moisture	n.a.	11.4	0.50	1
00121	Moisture Duplicate	n.a.	11.0	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 20:40	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015 20:40	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015 20:40	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015 20:40	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015 20:40	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015 20:40	Suzanne M Will	1

Sample Description: PLA-S-LT-SB06-0-1-DUP Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941583
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:55

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

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Oakbrook IL 60523

PLT60 SDG#: NWP21-01DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015	20:40	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015	15:59	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015	09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015	13:04	James L Mertz	1
00118	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015	16:49	Susan A Engle	1
00121	Moisture Duplicate	SM 2540 G-1997	1	15180820007B	06/29/2015	16:49	Susan A Engle	1

Sample Description: PLA-S-LT-SB06-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941584
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:50

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT66 SDG#: NWP21-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	45	7	0.88
10237	Benzene	71-43-2	N.D.	0.5	0.88
10237	Bromobenzene	108-86-1	N.D.	1	0.88
10237	Bromochloromethane	74-97-5	N.D.	1	0.88
10237	Bromodichloromethane	75-27-4	N.D.	1	0.88
10237	Bromoform	75-25-2	N.D.	1	0.88
10237	Bromomethane	74-83-9	N.D.	2	0.88
10237	2-Butanone	78-93-3	7 J	4	0.88
10237	n-Butylbenzene	104-51-8	N.D.	1	0.88
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.88
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.88
10237	Carbon Disulfide	75-15-0	N.D.	1	0.88
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.88
10237	Chlorobenzene	108-90-7	N.D.	1	0.88
10237	Chloroethane	75-00-3	N.D.	2	0.88
10237	Chloroform	67-66-3	N.D.	1	0.88
10237	Chloromethane	74-87-3	N.D.	2	0.88
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.88
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.88
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.88
10237	Dibromochloromethane	124-48-1	N.D.	1	0.88
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.88
10237	Dibromomethane	74-95-3	N.D.	1	0.88
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.88
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.88
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.88
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.88
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.88
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.88
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.88
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.88
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.88
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.88
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.88
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.88
10237	Ethylbenzene	100-41-4	N.D.	1	0.88
10237	2-Hexanone	591-78-6	N.D.	3	0.88
10237	Isopropylbenzene	98-82-8	N.D.	1	0.88
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.88
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.88
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.88
10237	Methylene Chloride	75-09-2	N.D.	2	0.88
10237	n-Propylbenzene	103-65-1	N.D.	1	0.88
10237	Styrene	100-42-5	N.D.	1	0.88
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.88
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.88
10237	Tetrachloroethene	127-18-4	N.D.	1	0.88
10237	Toluene	108-88-3	N.D.	1	0.88
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.88
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.88

Sample Description: PLA-S-LT-SB06-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941584
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:50

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Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT66 SDG#: NWP21-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.88
10237	Trichloroethene	79-01-6	N.D.	1	0.88
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.88
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.88
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.88
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.88
10237	Vinyl Chloride	75-01-4	N.D.	1	0.88
10237	m+p-Xylene	179601-23-1	N.D.	1	0.88
10237	o-Xylene	95-47-6	N.D.	1	0.88
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	6 J	4	1
10726	Acenaphthylene	208-96-8	16 J	4	1
10726	Anthracene	120-12-7	31	4	1
10726	Benzidine	92-87-5	N.D.	840	1
10726	Benzo(a)anthracene	56-55-3	97	4	1
10726	Benzo(a)pyrene	50-32-8	130	4	1
10726	Benzo(b)fluoranthene	205-99-2	160	4	1
10726	Benzo(g,h,i)perylene	191-24-2	150	4	1
10726	Benzo(k)fluoranthene	207-08-9	65	4	1
10726	Benzoic acid	65-85-0	N.D.	200	1
10726	Benzyl alcohol	100-51-6	N.D.	200	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	20	1
10726	Butylbenzylphthalate	85-68-7	N.D.	80	1
10726	Di-n-butylphthalate	84-74-2	N.D.	80	1
10726	Carbazole	86-74-8	N.D.	20	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	20	1
10726	4-Chloroaniline	106-47-8	N.D.	40	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	20	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	20	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	20	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	20	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	20	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	120	4	1
10726	Dibenz(a,h)anthracene	53-70-3	31	4	1
10726	Dibenzofuran	132-64-9	N.D.	20	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	20	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	20	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	20	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	20	1
10726	Diethylphthalate	84-66-2	N.D.	80	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	20	1
10726	Dimethylphthalate	131-11-3	N.D.	80	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	200	1

Sample Description: PLA-S-LT-SB06-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941584
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT66 SDG#: NWP21-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	360	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	80	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	20	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	80	1
10726	Fluoranthene	206-44-0	160	4	1
10726	Fluorene	86-73-7	8	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	20	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	200	1
10726	Hexachloroethane	67-72-1	N.D.	40	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	120	4	1
10726	Isophorone	78-59-1	N.D.	20	1
10726	2-Methylnaphthalene	91-57-6	19	4	1
10726	2-Methylphenol	95-48-7	N.D.	20	1
10726	4-Methylphenol	106-44-5	N.D.	20	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	22	4	1
10726	2-Nitroaniline	88-74-4	N.D.	20	1
10726	3-Nitroaniline	99-09-2	N.D.	80	1
10726	4-Nitroaniline	100-01-6	N.D.	80	1
10726	Nitrobenzene	98-95-3	N.D.	20	1
10726	2-Nitrophenol	88-75-5	N.D.	20	1
10726	4-Nitrophenol	100-02-7	N.D.	200	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	20	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	20	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	80	1
10726	Pentachlorophenol	87-86-5	N.D.	40	1
10726	Phenanthrene	85-01-8	89	4	1
10726	Phenol	108-95-2	N.D.	20	1
10726	Pyrene	129-00-0	170	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	20	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	20	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	20	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	8,090	5.41	1
06944	Antimony	7440-36-0	2.04	0.393	1
06935	Arsenic	7440-38-2	6.87	0.763	1
06946	Barium	7440-39-3	40.6	0.0393	1

Sample Description: PLA-S-LT-SB06-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941584
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT66 SDG#: NWP21-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06947	Beryllium	7440-41-7	0.499 J	0.0798	1
06949	Cadmium	7440-43-9	0.0572 J	0.0393	1
01650	Calcium	7440-70-2	21,700	4.52	1
06951	Chromium	7440-47-3	10.9	0.131	1
06952	Cobalt	7440-48-4	5.83	0.114	1
06953	Copper	7440-50-8	20.2	0.393	1
01654	Iron	7439-89-6	13,900	3.98	1
06955	Lead	7439-92-1	40.2	0.596	1
01657	Magnesium	7439-95-4	12,000	1.99	1
06958	Manganese	7439-96-5	265	0.0989	1
06961	Nickel	7440-02-0	13.5	0.179	1
01662	Potassium	7440-09-7	1,470	15.5	1
06936	Selenium	7782-49-2	2.06 J	0.524	1
06966	Silver	7440-22-4	N.D.	0.226	1
01667	Sodium	7440-23-5	434	19.9	1
06925	Thallium	7440-28-0	N.D.	0.953	1
06971	Vanadium	7440-62-2	20.6	0.108	1
06972	Zinc	7440-66-6	90.5	0.310	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0985 J	0.0119	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	16.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 21:56	Kathrine K Muramatsu	0.88
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 12:50	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLG026	06/28/2015 16:07	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLG026	06/26/2015 07:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 20:53	Suzanne M Will	1

Sample Description: PLA-S-LT-SB06-6-7 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941584
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 12:50

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT66 SDG#: NWP21-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015	20:53	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015	16:05	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015	09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015	13:04	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015	16:49	Susan A Engle	1

Sample Description: PLA-S-LT-SB06-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941585
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 13:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT65 SDG#: NWP21-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	48	7	0.82
10237	Benzene	71-43-2	25	0.5	0.82
10237	Bromobenzene	108-86-1	N.D.	1	0.82
10237	Bromochloromethane	74-97-5	N.D.	1	0.82
10237	Bromodichloromethane	75-27-4	N.D.	1	0.82
10237	Bromoform	75-25-2	N.D.	1	0.82
10237	Bromomethane	74-83-9	N.D.	2	0.82
10237	2-Butanone	78-93-3	5 J	4	0.82
10237	n-Butylbenzene	104-51-8	N.D.	1	0.82
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.82
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.82
10237	Carbon Disulfide	75-15-0	N.D.	1	0.82
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.82
10237	Chlorobenzene	108-90-7	N.D.	1	0.82
10237	Chloroethane	75-00-3	N.D.	2	0.82
10237	Chloroform	67-66-3	N.D.	1	0.82
10237	Chloromethane	74-87-3	N.D.	2	0.82
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.82
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.82
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.82
10237	Dibromochloromethane	124-48-1	N.D.	1	0.82
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.82
10237	Dibromomethane	74-95-3	N.D.	1	0.82
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.82
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.82
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.82
10237	1,1-Dichloroethene	75-35-4	4 J	1	0.82
10237	cis-1,2-Dichloroethene	156-59-2	2,300	80	68.68
10237	trans-1,2-Dichloroethene	156-60-5	140	1	0.82
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.82
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.82
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.82
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.82
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.82
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.82
10237	Ethylbenzene	100-41-4	N.D.	1	0.82
10237	2-Hexanone	591-78-6	N.D.	3	0.82
10237	Isopropylbenzene	98-82-8	N.D.	1	0.82
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.82
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.82
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.82
10237	Methylene Chloride	75-09-2	N.D.	2	0.82
10237	n-Propylbenzene	103-65-1	N.D.	1	0.82
10237	Styrene	100-42-5	N.D.	1	0.82
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.82
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.82
10237	Tetrachloroethene	127-18-4	N.D.	1	0.82
10237	Toluene	108-88-3	N.D.	1	0.82
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.82
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.82

Sample Description: PLA-S-LT-SB06-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941585
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 13:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT65 SDG#: NWP21-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.82
10237	Trichloroethene	79-01-6	3,400	80	68.68
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.82
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.82
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.82
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.82
10237	Vinyl Chloride	75-01-4	10	1	0.82
10237	m+p-Xylene	179601-23-1	N.D.	1	0.82
10237	o-Xylene	95-47-6	N.D.	1	0.82

The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The sample was re-analyzed and the QC is again outside of the acceptance limits, indicating a matrix effect. The data is reported from the initial trial.

GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	810	1
10726	Benzo(a)anthracene	56-55-3	N.D.	4	1
10726	Benzo(a)pyrene	50-32-8	N.D.	4	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	4	1
10726	Benzo(g,h,i)perylene	191-24-2	N.D.	4	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	77	1
10726	Di-n-butylphthalate	84-74-2	N.D.	77	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	39	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	13	J	4
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	120	1

Sample Description: PLA-S-LT-SB06-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941585
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 13:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT65 SDG#: NWP21-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	77	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	77	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	350	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	77	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	77	1
10726	Fluoranthene	206-44-0	N.D.	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	39	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	77	1
10726	4-Nitroaniline	100-01-6	N.D.	77	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10726	Di-n-octylphthalate	117-84-0	N.D.	77	1
10726	Pentachlorophenol	87-86-5	N.D.	39	1
10726	Phenanthrene	85-01-8	N.D.	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	5 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Isophorone
Nitrobenzene

Sample Description: PLA-S-LT-SB06-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941585
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 13:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT65 SDG#: NWP21-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
01643	Aluminum	7429-90-5	17,000	5.04	1
06944	Antimony	7440-36-0	6.04	0.366	1
06935	Arsenic	7440-38-2	17.9	0.710	1
06946	Barium	7440-39-3	35.1	0.0366	1
06947	Beryllium	7440-41-7	1.45	0.0744	1
06949	Cadmium	7440-43-9	1.24	0.0366	1
01650	Calcium	7440-70-2	4,110	4.21	1
06951	Chromium	7440-47-3	22.1	0.122	1
06952	Cobalt	7440-48-4	16.9	0.107	1
06953	Copper	7440-50-8	84.5	0.366	1
01654	Iron	7439-89-6	40,100	18.5	5
06955	Lead	7439-92-1	78.0	0.555	1
01657	Magnesium	7439-95-4	5,970	1.85	1
06958	Manganese	7439-96-5	217	0.0921	1
06961	Nickel	7440-02-0	52.2	0.167	1
01662	Potassium	7440-09-7	3,740	14.4	1
06936	Selenium	7782-49-2	6.73	0.488	1
06966	Silver	7440-22-4	3.35	0.211	1
01667	Sodium	7440-23-5	242	18.5	1
06925	Thallium	7440-28-0	2.74 J	0.888	1
06971	Vanadium	7440-62-2	72.0	0.101	1
06972	Zinc	7440-66-6	584	0.289	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0383 J	0.0114	1

Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	14.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 22:19	Kathrine K Muramatsu	0.82
10237	VOCs- Solid by 8260B	SW-846 8260B	1	Q151801AA	06/29/2015 13:20	Anita M Dale	68.68
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:25	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 13:20	Client Supplied	1

Sample Description: PLA-S-LT-SB06-15-16 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941585
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 13:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PLT65 SDG#: NWP21-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLG026	06/28/2015 16:30	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLG026	06/26/2015 07:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151775708006	06/30/2015 06:19	Joanne M Gates	5
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015 20:56	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015 16:07	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015 09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015 13:04	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015 16:49	Susan A Engle	1

Sample Description: PLA-CS-George_bldg-A7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941586
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

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Submitted: 06/24/2015 09:20

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Oakbrook IL 60523

PGBA7 SDG#: NWP21-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	8 J	7	1.04
10237	Benzene	71-43-2	N.D.	0.5	1.04
10237	Bromobenzene	108-86-1	N.D.	1	1.04
10237	Bromochloromethane	74-97-5	N.D.	1	1.04
10237	Bromodichloromethane	75-27-4	N.D.	1	1.04
10237	Bromoform	75-25-2	N.D.	1	1.04
10237	Bromomethane	74-83-9	N.D.	2	1.04
10237	2-Butanone	78-93-3	N.D.	4	1.04
10237	n-Butylbenzene	104-51-8	N.D.	1	1.04
10237	sec-Butylbenzene	135-98-8	N.D.	1	1.04
10237	tert-Butylbenzene	98-06-6	N.D.	1	1.04
10237	Carbon Disulfide	75-15-0	N.D.	1	1.04
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1.04
10237	Chlorobenzene	108-90-7	N.D.	1	1.04
10237	Chloroethane	75-00-3	N.D.	2	1.04
10237	Chloroform	67-66-3	N.D.	1	1.04
10237	Chloromethane	74-87-3	N.D.	2	1.04
10237	2-Chlorotoluene	95-49-8	N.D.	1	1.04
10237	4-Chlorotoluene	106-43-4	N.D.	1	1.04
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1.04
10237	Dibromochloromethane	124-48-1	N.D.	1	1.04
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1.04
10237	Dibromomethane	74-95-3	N.D.	1	1.04
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1.04
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1.04
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1.04
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1.04
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1.04
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1.04
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1.04
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1.04
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1.04
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1.04
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1.04
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1.04
10237	Ethylbenzene	100-41-4	N.D.	1	1.04
10237	2-Hexanone	591-78-6	N.D.	3	1.04
10237	Isopropylbenzene	98-82-8	N.D.	1	1.04
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1.04
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1.04
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	1.04
10237	Methylene Chloride	75-09-2	N.D.	2	1.04
10237	n-Propylbenzene	103-65-1	N.D.	1	1.04
10237	Styrene	100-42-5	N.D.	1	1.04
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1.04
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1.04
10237	Tetrachloroethene	127-18-4	N.D.	1	1.04
10237	Toluene	108-88-3	N.D.	1	1.04
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1.04
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1.04

Sample Description: PLA-CS-George_bldg-A7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941586
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PGBA7 SDG#: NWP21-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1.04
10237	Trichloroethene	79-01-6	N.D.	1	1.04
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1.04
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1.04
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1.04
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1.04
10237	Vinyl Chloride	75-01-4	N.D.	1	1.04
10237	m+p-Xylene	179601-23-1	N.D.	1	1.04
10237	o-Xylene	95-47-6	N.D.	1	1.04

Sample contains concrete which is known to react with and decrease the recoveries for the method surrogate standards. Therefore no re-analysis was performed to confirm matrix effects.

GC/MS	Semivolatiles	SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	N.D.	3	1
10726	Acenaphthylene	208-96-8	N.D.	3	1
10726	Anthracene	120-12-7	N.D.	3	1
10726	Benzidine	92-87-5	N.D.	720	1
10726	Benzo(a)anthracene	56-55-3	5 J	3	1
10726	Benzo(a)pyrene	50-32-8	13 J	3	1
10726	Benzo(b)fluoranthene	205-99-2	N.D.	3	1
10726	Benzo(g,h,i)perylene	191-24-2	8 J	3	1
10726	Benzo(k)fluoranthene	207-08-9	N.D.	3	1
10726	Benzoic acid	65-85-0	N.D.	170	1
10726	Benzyl alcohol	100-51-6	N.D.	170	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	17	1
10726	Butylbenzylphthalate	85-68-7	N.D.	68	1
10726	Di-n-butylphthalate	84-74-2	N.D.	68	1
10726	Carbazole	86-74-8	N.D.	17	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	17	1
10726	4-Chloroaniline	106-47-8	N.D.	34	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	17	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	17	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	17	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	17	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	17	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	10 J	3	1
10726	Dibenz(a,h)anthracene	53-70-3	4 J	3	1
10726	Dibenzofuran	132-64-9	N.D.	17	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	17	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	17	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	17	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	100	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	17	1
10726	Diethylphthalate	84-66-2	N.D.	68	1

Sample Description: PLA-CS-George_bldg-A7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941586
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PGBA7 SDG#: NWP21-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dimethylphenol	105-67-9	N.D.	17	1
10726	Dimethylphthalate	131-11-3	N.D.	68	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	170	1
10726	2,4-Dinitrophenol	51-28-5	N.D.	310	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	68	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	17	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	68	1
10726	Fluoranthene	206-44-0	4 J	3	1
10726	Fluorene	86-73-7	N.D.	3	1
10726	Hexachlorobenzene	118-74-1	N.D.	3	1
10726	Hexachlorobutadiene	87-68-3	N.D.	17	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	170	1
10726	Hexachloroethane	67-72-1	N.D.	34	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	4 J	3	1
10726	Isophorone	78-59-1	29 J	17	1
10726	2-Methylnaphthalene	91-57-6	11 J	3	1
10726	2-Methylphenol	95-48-7	N.D.	17	1
10726	4-Methylphenol	106-44-5	N.D.	17	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	8 J	3	1
10726	2-Nitroaniline	88-74-4	N.D.	17	1
10726	3-Nitroaniline	99-09-2	N.D.	68	1
10726	4-Nitroaniline	100-01-6	N.D.	68	1
10726	Nitrobenzene	98-95-3	N.D.	17	1
10726	2-Nitrophenol	88-75-5	N.D.	17	1
10726	4-Nitrophenol	100-02-7	N.D.	170	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	17	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	17	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	68	1
10726	Pentachlorophenol	87-86-5	N.D.	34	1
10726	Phenanthrene	85-01-8	7 J	3	1
10726	Phenol	108-95-2	N.D.	17	1
10726	Pyrene	129-00-0	5 J	3	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	17	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	17	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	17	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	5,350	4.51	1
06944	Antimony	7440-36-0	N.D.	0.328	1

Sample Description: PLA-CS-George_bldg-A7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941586
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PGBA7 SDG#: NWP21-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			mg/kg	mg/kg	
SW-846 6010B					
06935	Arsenic	7440-38-2	2.24	0.635	1
06946	Barium	7440-39-3	39.8	0.0328	1
06947	Beryllium	7440-41-7	0.752	0.0665	1
06949	Cadmium	7440-43-9	0.0407 J	0.0328	1
01650	Calcium	7440-70-2	182,000	18.8	5
06951	Chromium	7440-47-3	8.69	0.109	1
06952	Cobalt	7440-48-4	1.75	0.0953	1
06953	Copper	7440-50-8	3.80	0.328	1
01654	Iron	7439-89-6	5,440	3.32	1
06955	Lead	7439-92-1	3.51	0.496	1
01657	Magnesium	7439-95-4	67,700	8.29	5
06958	Manganese	7439-96-5	629	0.0824	1
06961	Nickel	7440-02-0	4.21	0.149	1
01662	Potassium	7440-09-7	737	12.9	1
06936	Selenium	7782-49-2	1.02 J	0.437	1
06966	Silver	7440-22-4	N.D.	0.189	1
01667	Sodium	7440-23-5	422	16.6	1
06925	Thallium	7440-28-0	N.D.	0.794	1
06971	Vanadium	7440-62-2	9.54	0.0903	1
06972	Zinc	7440-66-6	20.9	0.258	1
SW-846 7471A			mg/kg	mg/kg	
00159	Mercury	7439-97-6	N.D.	0.0099	1
Wet Chemistry			%	%	
SM 2540 G-1997					
00111	Moisture	n.a.	2.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 23:04	Kathrine K Muramatsu	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201517538078	06/24/2015 19:16	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201517538078	06/24/2015 19:16	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201517538078	06/24/2015 19:12	Mitchell R Washel	n.a.

Sample Description: PLA-CS-George_bldg-A7 Grab Concrete
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941586
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 14:10

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

PGBA7 SDG#: NWP21-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLI026	06/28/2015 12:36	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLI026	06/26/2015 06:45	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151775708006	06/30/2015 06:22	Joanne M Gates	5
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/30/2015 06:22	Joanne M Gates	5
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015 21:04	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015 16:09	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015 09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015 13:04	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015 16:49	Susan A Engle	1

Sample Description: TB-062315-S1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7941587
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:00

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

TB23S SDG#: NWP21-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	1
10237	Benzene	71-43-2	N.D.	0.5	1
10237	Bromobenzene	108-86-1	N.D.	1	1
10237	Bromochloromethane	74-97-5	N.D.	1	1
10237	Bromodichloromethane	75-27-4	N.D.	1	1
10237	Bromoform	75-25-2	N.D.	1	1
10237	Bromomethane	74-83-9	N.D.	2	1
10237	2-Butanone	78-93-3	N.D.	4	1
10237	n-Butylbenzene	104-51-8	N.D.	1	1
10237	sec-Butylbenzene	135-98-8	N.D.	1	1
10237	tert-Butylbenzene	98-06-6	N.D.	1	1
10237	Carbon Disulfide	75-15-0	N.D.	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1
10237	Chlorobenzene	108-90-7	N.D.	1	1
10237	Chloroethane	75-00-3	N.D.	2	1
10237	Chloroform	67-66-3	N.D.	1	1
10237	Chloromethane	74-87-3	N.D.	2	1
10237	2-Chlorotoluene	95-49-8	N.D.	1	1
10237	4-Chlorotoluene	106-43-4	N.D.	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10237	Dibromochloromethane	124-48-1	N.D.	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1
10237	Dibromomethane	74-95-3	N.D.	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10237	Ethylbenzene	100-41-4	N.D.	1	1
10237	2-Hexanone	591-78-6	N.D.	3	1
10237	Isopropylbenzene	98-82-8	N.D.	1	1
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10237	Methylene Chloride	75-09-2	N.D.	2	1
10237	n-Propylbenzene	103-65-1	N.D.	1	1
10237	Styrene	100-42-5	N.D.	1	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10237	Tetrachloroethene	127-18-4	N.D.	1	1
10237	Toluene	108-88-3	N.D.	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1

Sample Description: TB-062315-S1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7941587
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 15:00

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

TB23S SDG#: NWP21-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1
10237	Trichloroethene	79-01-6	N.D.	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10237	Vinyl Chloride	75-01-4	N.D.	1	1
10237	m+p-Xylene	179601-23-1	N.D.	1	1
10237	o-Xylene	95-47-6	N.D.	1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 20:26	Kathrine K Muramatsu	1
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:25	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:25	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 15:00	Client Supplied	1

Sample Description: TB-062315-C1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941588
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 16:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

TB23C SDG#: NWP21-06TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-062315-C1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7941588
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015 16:20

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

TB23C SDG#: NWP21-06TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	Y151791AA	06/28/2015 18:14	Kathrine K Muramatsu	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y151791AA	06/28/2015 18:14	Kathrine K Muramatsu	1

Sample Description: DUP-062315-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941589
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

DP231 SDG#: NWP21-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.9
10237	Benzene	71-43-2	N.D.	0.5	0.9
10237	Bromobenzene	108-86-1	N.D.	1	0.9
10237	Bromochloromethane	74-97-5	N.D.	1	0.9
10237	Bromodichloromethane	75-27-4	N.D.	1	0.9
10237	Bromoform	75-25-2	N.D.	1	0.9
10237	Bromomethane	74-83-9	N.D.	2	0.9
10237	2-Butanone	78-93-3	N.D.	4	0.9
10237	n-Butylbenzene	104-51-8	N.D.	1	0.9
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.9
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.9
10237	Carbon Disulfide	75-15-0	N.D.	1	0.9
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.9
10237	Chlorobenzene	108-90-7	N.D.	1	0.9
10237	Chloroethane	75-00-3	N.D.	2	0.9
10237	Chloroform	67-66-3	N.D.	1	0.9
10237	Chloromethane	74-87-3	N.D.	2	0.9
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.9
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.9
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.9
10237	Dibromochloromethane	124-48-1	N.D.	1	0.9
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.9
10237	Dibromomethane	74-95-3	N.D.	1	0.9
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.9
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.9
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.9
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.9
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.9
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.9
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.9
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.9
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.9
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.9
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.9
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.9
10237	Ethylbenzene	100-41-4	N.D.	1	0.9
10237	2-Hexanone	591-78-6	N.D.	3	0.9
10237	Isopropylbenzene	98-82-8	N.D.	1	0.9
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.9
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.9
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.9
10237	Methylene Chloride	75-09-2	N.D.	2	0.9
10237	n-Propylbenzene	103-65-1	N.D.	1	0.9
10237	Styrene	100-42-5	N.D.	1	0.9
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.9
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.9
10237	Tetrachloroethene	127-18-4	N.D.	1	0.9
10237	Toluene	108-88-3	N.D.	1	0.9
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.9
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.9

Sample Description: DUP-062315-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941589
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

DP231 SDG#: NWP21-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.9
10237	Trichloroethene	79-01-6	N.D.	1	0.9
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.9
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.9
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.9
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.9
10237	Vinyl Chloride	75-01-4	N.D.	1	0.9
10237	m+p-Xylene	179601-23-1	N.D.	1	0.9
10237	o-Xylene	95-47-6	N.D.	1	0.9
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	6 J	4	1
10726	Acenaphthylene	208-96-8	10 J	4	1
10726	Anthracene	120-12-7	25	4	1
10726	Benzidine	92-87-5	N.D.	740	1
10726	Benzo(a)anthracene	56-55-3	120	4	1
10726	Benzo(a)pyrene	50-32-8	140	4	1
10726	Benzo(b)fluoranthene	205-99-2	210	4	1
10726	Benzo(g,h,i)perylene	191-24-2	130	4	1
10726	Benzo(k)fluoranthene	207-08-9	83	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	71	1
10726	Di-n-butylphthalate	84-74-2	N.D.	71	1
10726	Carbazole	86-74-8	N.D.	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	35	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	7	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	150	4	1
10726	Dibenz(a,h)anthracene	53-70-3	37	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	71	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	71	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: DUP-062315-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941589
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

DP231 SDG#: NWP21-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	71	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	71	1
10726	Fluoranthene	206-44-0	260	4	1
10726	Fluorene	86-73-7	6 J	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	35	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	120	4	1
10726	Isophorone	78-59-1	N.D.	18	1
10726	2-Methylnaphthalene	91-57-6	7 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	5 J	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	71	1
10726	4-Nitroaniline	100-01-6	N.D.	71	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	71	1
10726	Pentachlorophenol	87-86-5	N.D.	35	1
10726	Phenanthrene	85-01-8	130	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	230	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

Isophorone
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	9,080	4.70	1
06944	Antimony	7440-36-0	1.78 J	0.342	1
06935	Arsenic	7440-38-2	7.74	0.663	1
06946	Barium	7440-39-3	54.8	0.0342	1

Sample Description: DUP-062315-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941589
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/24/2015 09:20

Reported: 07/06/2015 11:50

DP231 SDG#: NWP21-07FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals			SW-846 6010B	mg/kg	
06947	Beryllium	7440-41-7	0.610	0.0694	1
06949	Cadmium	7440-43-9	0.0466 J	0.0342	1
01650	Calcium	7440-70-2	25,500	3.93	1
06951	Chromium	7440-47-3	16.9	0.114	1
06952	Cobalt	7440-48-4	7.45	0.0995	1
06953	Copper	7440-50-8	19.7	0.342	1
01654	Iron	7439-89-6	17,200	3.46	1
06955	Lead	7439-92-1	39.5	0.518	1
01657	Magnesium	7439-95-4	13,000	1.73	1
06958	Manganese	7439-96-5	547	0.0860	1
06961	Nickel	7440-02-0	23.1	0.155	1
01662	Potassium	7440-09-7	1,360	13.5	1
06936	Selenium	7782-49-2	2.12	0.456	1
06966	Silver	7440-22-4	0.382 J	0.197	1
01667	Sodium	7440-23-5	87.7 J	17.3	1
06925	Thallium	7440-28-0	N.D.	0.829	1
06971	Vanadium	7440-62-2	23.9	0.0943	1
06972	Zinc	7440-66-6	106	0.269	1
			SW-846 7471A	mg/kg	
00159	Mercury	7439-97-6	0.0445 J	0.0105	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	7.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCS- Solid by 8260B	SW-846 8260B	1	A151781BA	06/27/2015 22:41	Kathrine K Muramatsu	0.9
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517538071	06/24/2015 15:24	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517538071	06/24/2015 15:24	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517538071	06/23/2015 00:00	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15176SLG026	06/28/2015 16:54	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15176SLG026	06/26/2015 07:30	Katheryne V Dinan	1
01643	Aluminum	SW-846 6010B	1	151775708006	06/29/2015 21:08	Suzanne M Will	1

Sample Description: DUP-062315-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7941589
LL Group # 1571673
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/23/2015

Geosyntec

Submitted: 06/24/2015 09:20

1420 Kensington Road

Reported: 07/06/2015 11:50

Suite 103

Oakbrook IL 60523

DP231 SDG#: NWP21-07FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06944	Antimony	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06946	Barium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151775708006	06/29/2015	21:08	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151775711007	07/01/2015	16:15	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151775708006	06/29/2015	09:05	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151775711007	06/29/2015	13:04	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15180820007B	06/29/2015	16:49	Susan A Engle	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A151781BA	Sample number(s): 7941580-7941582, 7941584-7941587, 7941589							
Acetone	N.D.	7.	ug/kg	89		57-127		
Benzene	N.D.	0.5	ug/kg	99		80-120		
Bromobenzene	N.D.	1.	ug/kg	101		78-120		
Bromochloromethane	N.D.	1.	ug/kg	109		80-120		
Bromodichloromethane	N.D.	1.	ug/kg	98		75-120		
Bromoform	N.D.	1.	ug/kg	92		64-120		
Bromomethane	N.D.	2.	ug/kg	99		41-144		
2-Butanone	N.D.	4.	ug/kg	92		62-123		
n-Butylbenzene	N.D.	1.	ug/kg	101		72-120		
sec-Butylbenzene	N.D.	1.	ug/kg	102		69-120		
tert-Butylbenzene	N.D.	1.	ug/kg	101		75-120		
Carbon Disulfide	N.D.	1.	ug/kg	88		52-126		
Carbon Tetrachloride	N.D.	1.	ug/kg	95		69-130		
Chlorobenzene	N.D.	1.	ug/kg	104		80-120		
Chloroethane	N.D.	2.	ug/kg	91		38-142		
Chloroform	N.D.	1.	ug/kg	100		80-120		
Chloromethane	N.D.	2.	ug/kg	100		56-120		
2-Chlorotoluene	N.D.	1.	ug/kg	102		78-120		
4-Chlorotoluene	N.D.	1.	ug/kg	103		79-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	90		59-122		
Dibromochloromethane	N.D.	1.	ug/kg	98		77-120		
1,2-Dibromoethane	N.D.	1.	ug/kg	103		80-120		
Dibromomethane	N.D.	1.	ug/kg	99		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/kg	97		26-137		
1,1-Dichloroethane	N.D.	1.	ug/kg	98		77-120		
1,2-Dichloroethane	N.D.	1.	ug/kg	102		77-130		
1,1-Dichloroethene	N.D.	1.	ug/kg	94		73-129		
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	100		80-120		
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	100		79-122		
1,2-Dichloropropane	N.D.	1.	ug/kg	104		76-120		
1,3-Dichloropropane	N.D.	1.	ug/kg	102		80-120		
2,2-Dichloropropane	N.D.	1.	ug/kg	100		72-123		
1,1-Dichloropropene	N.D.	1.	ug/kg	91		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	97		74-120		
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	102		76-120		
Ethylbenzene	N.D.	1.	ug/kg	103		80-120		
2-Hexanone	N.D.	3.	ug/kg	93		47-133		
Isopropylbenzene	N.D.	1.	ug/kg	103		76-120		
p-Isopropyltoluene	N.D.	1.	ug/kg	100		69-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	99		72-120		
4-Methyl-2-pentanone	N.D.	3.	ug/kg	94		57-123		
Methylene Chloride	N.D.	2.	ug/kg	102		80-124		
n-Propylbenzene	N.D.	1.	ug/kg	103		77-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/kg	105		76-120		
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	102		80-120		
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	101		72-120		
Tetrachloroethene	N.D.	1.	ug/kg	100		78-120		
Toluene	N.D.	1.	ug/kg	102		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	98		52-120		
1,1,1-Trichloroethane	N.D.	1.	ug/kg	95		66-126		
1,1,2-Trichloroethane	N.D.	1.	ug/kg	104		80-120		
Trichloroethene	N.D.	1.	ug/kg	100		80-120		
Trichlorofluoromethane	N.D.	2.	ug/kg	94		58-133		
1,2,3-Trichloropropane	N.D.	1.	ug/kg	102		77-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	103		79-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	102		78-120		
Vinyl Chloride	N.D.	1.	ug/kg	100		59-120		
m+p-Xylene	N.D.	1.	ug/kg	104		80-120		
o-Xylene	N.D.	1.	ug/kg	101		80-120		

Batch number: Q151801AA	Sample number(s): 7941585							
cis-1,2-Dichloroethene	N.D.	50.	ug/kg	96	96	80-120	0	30
Trichloroethene	N.D.	50.	ug/kg	97	94	80-120	3	30

Batch number: Y151791AA	Sample number(s): 7941588							
Acetone	N.D.	6.	ug/l	84		55-129		
Benzene	N.D.	0.5	ug/l	110		78-120		
Bromobenzene	N.D.	1.	ug/l	107		80-120		
Bromochloromethane	N.D.	1.	ug/l	117		80-120		
Bromodichloromethane	N.D.	0.5	ug/l	100		73-120		
Bromoform	N.D.	0.5	ug/l	95		52-123		
Bromomethane	N.D.	0.5	ug/l	76		53-130		
2-Butanone	N.D.	3.	ug/l	97		54-133		
n-Butylbenzene	N.D.	1.	ug/l	105		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	104		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	101		80-120		
Carbon Disulfide	N.D.	1.	ug/l	78		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	110		74-130		
Chlorobenzene	N.D.	0.5	ug/l	109		80-120		
Chloroethane	N.D.	0.5	ug/l	69		56-120		
Chloroform	N.D.	0.5	ug/l	108		80-120		
Chloromethane	N.D.	0.5	ug/l	93		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	106		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	104		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	82		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	105		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	111		80-120		
Dibromomethane	N.D.	0.5	ug/l	108		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	98		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	101		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	94		72-127		
1,1-Dichloroethene	N.D.	0.5	ug/l	100		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	115		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	107		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	105		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	101		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	97		63-131		
1,1-Dichloropropene	N.D.	1.	ug/l	97		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	98		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	97		76-120		
Ethylbenzene	N.D.	0.5	ug/l	103		80-120		
2-Hexanone	N.D.	3.	ug/l	91		50-131		
Isopropylbenzene	N.D.	1.	ug/l	101		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	104		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	98		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	92		51-124		
Methylene Chloride	N.D.	2.	ug/l	102		80-120		
n-Propylbenzene	N.D.	1.	ug/l	105		80-120		
Styrene	N.D.	1.	ug/l	103		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	110		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	98		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	115		80-120		
Toluene	N.D.	0.5	ug/l	107		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	99		69-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	95		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	110		80-120		
Trichloroethene	N.D.	0.5	ug/l	111		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	93		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	104		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	103		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	105		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	85		69-120		
m+p-Xylene	N.D.	0.5	ug/l	107		80-120		
o-Xylene	N.D.	0.5	ug/l	100		80-120		

Batch number: 15176SLG026	Sample number(s): 7941580-7941582,7941584-7941585,7941589
Acenaphthene	N.D. 3. ug/kg 100 83-116
Acenaphthylene	N.D. 3. ug/kg 108 83-127
Anthracene	N.D. 3. ug/kg 107 82-118
Benzidine	N.D. 700. ug/kg 79* 22-71
Benzo(a)anthracene	N.D. 3. ug/kg 93 76-119
Benzo(a)pyrene	N.D. 3. ug/kg 101 85-117
Benzo(b)fluoranthene	N.D. 3. ug/kg 97 78-129
Benzo(g,h,i)perylene	N.D. 3. ug/kg 106 82-119
Benzo(k)fluoranthene	N.D. 3. ug/kg 94 79-120
Benzoic acid	N.D. 170. ug/kg 82 41-122
Benzyl alcohol	N.D. 170. ug/kg 95 82-123
4-Bromophenyl-phenylether	N.D. 17. ug/kg 105 84-120
Butylbenzylphthalate	N.D. 67. ug/kg 96 80-118
Di-n-butylphthalate	N.D. 67. ug/kg 98 84-120
Carbazole	N.D. 17. ug/kg 101 78-117
4-Chloro-3-methylphenol	N.D. 17. ug/kg 88 79-127
4-Chloroaniline	N.D. 33. ug/kg 79 10-101
bis(2-Chloroethoxy)methane	N.D. 17. ug/kg 89 77-116
bis(2-Chloroethyl)ether	N.D. 17. ug/kg 89 77-115
2-Chloronaphthalene	N.D. 7. ug/kg 89 63-146
2-Chlorophenol	N.D. 17. ug/kg 112 85-123
4-Chlorophenyl-phenylether	N.D. 17. ug/kg 94 81-120
2,2'-oxybis(1-Chloropropane)	N.D. 17. ug/kg 94 70-119
Chrysene	N.D. 3. ug/kg 93 80-121
Dibenz(a,h)anthracene	N.D. 3. ug/kg 102 81-123
Dibenzofuran	N.D. 17. ug/kg 99 85-115
1,2-Dichlorobenzene	N.D. 17. ug/kg 99 79-112
1,3-Dichlorobenzene	N.D. 17. ug/kg 97 79-113
1,4-Dichlorobenzene	N.D. 17. ug/kg 95 79-112

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	49		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	100		81-123		
Diethylphthalate	N.D.	67.	ug/kg	92		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	88		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	96		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	108		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	97		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	96		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	105		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	95		81-121		
Fluoranthene	N.D.	3.	ug/kg	92		81-117		
Fluorene	N.D.	3.	ug/kg	100		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	108		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	80		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	82		75-176		
Hexachloroethane	N.D.	33.	ug/kg	95		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	103		81-118		
Isophorone	N.D.	17.	ug/kg	85*		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	92		83-109		
2-Methylphenol	N.D.	17.	ug/kg	102		82-125		
4-Methylphenol	N.D.	17.	ug/kg	97		75-119		
Naphthalene	N.D.	3.	ug/kg	95		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	109		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	104		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	83		48-112		
Nitrobenzene	N.D.	17.	ug/kg	74*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	105		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	74		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	80		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	106		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	103		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	100		57-126		
Phenanthrene	N.D.	3.	ug/kg	104		80-114		
Phenol	N.D.	17.	ug/kg	91		75-117		
Pyrene	N.D.	3.	ug/kg	96		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	92		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	102		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	103		81-123		

Batch number: 15176SLI026

Sample number(s): 7941586

Acenaphthene	N.D.	3.	ug/kg	99		83-116		
Acenaphthylene	N.D.	3.	ug/kg	105		83-127		
Anthracene	N.D.	3.	ug/kg	104		82-118		
Benzidine	N.D.	700.	ug/kg	85*		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	94		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	102		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	97		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	109		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	99		79-120		
Benzoic acid	N.D.	170.	ug/kg	84		41-122		
Benzyl alcohol	N.D.	170.	ug/kg	92		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	98		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	96		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	93		84-120		
Carbazole	N.D.	17.	ug/kg	99		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	81		79-127		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDI</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Chloroaniline	N.D.	33.	ug/kg	69		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	85		77-116		
bis(2-Chloroethyl) ether	N.D.	17.	ug/kg	87		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	102		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	109		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	93		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	94		70-119		
Chrysene	N.D.	3.	ug/kg	93		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	105		81-123		
Dibenzofuran	N.D.	17.	ug/kg	99		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	98		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	94		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	96		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	40		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	97		81-123		
Diethylphthalate	N.D.	67.	ug/kg	89		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	85		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	94		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	103		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	103		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	97		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	102		83-120		
bis(2-Ethylhexyl)phthalate	N.D.	67.	ug/kg	92		81-121		
Fluoranthene	N.D.	3.	ug/kg	92		81-117		
Fluorene	N.D.	3.	ug/kg	99		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	102		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	76*		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	90		75-176		
Hexachloroethane	N.D.	33.	ug/kg	87		78-114		
Indeno(1,2,3-cd)pyrene	N.D.	3.	ug/kg	106		81-118		
Isophorone	N.D.	17.	ug/kg	80*		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	89		83-109		
2-Methylphenol	N.D.	17.	ug/kg	102		82-125		
4-Methylphenol	N.D.	17.	ug/kg	92		75-119		
Naphthalene	N.D.	3.	ug/kg	93		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	110		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	105		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	85		48-112		
Nitrobenzene	N.D.	17.	ug/kg	74*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	97		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	73		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	77		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	100		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	102		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	101		57-126		
Phenanthrene	N.D.	3.	ug/kg	102		80-114		
Phenol	N.D.	17.	ug/kg	90		75-117		
Pyrene	N.D.	3.	ug/kg	96		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	88		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	99		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	102		81-123		
Batch number: 151775708006	Sample number(s): 7941580-7941586,7941589							
Aluminum	6.87 J	4.54	mg/kg	105		80-120		
Antimony	N.D.	0.330	mg/kg	106		80-120		
Arsenic	N.D.	0.640	mg/kg	105		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Barium	N.D.	0.0330	mg/kg	102		80-120		
Beryllium	N.D.	0.0670	mg/kg	109		80-120		
Cadmium	N.D.	0.0330	mg/kg	101		80-120		
Calcium	6.73 J	3.79	mg/kg	106		80-120		
Chromium	N.D.	0.110	mg/kg	103		80-120		
Cobalt	N.D.	0.0960	mg/kg	103		80-120		
Copper	0.402 J	0.330	mg/kg	105		80-120		
Iron	N.D.	3.34	mg/kg	104		80-120		
Lead	N.D.	0.500	mg/kg	103		80-120		
Magnesium	3.42 J	1.67	mg/kg	105		80-120		
Manganese	N.D.	0.0830	mg/kg	102		80-120		
Nickel	N.D.	0.150	mg/kg	104		80-120		
Potassium	N.D.	13.0	mg/kg	105		80-120		
Selenium	N.D.	0.440	mg/kg	104		80-120		
Silver	N.D.	0.190	mg/kg	94		80-120		
Sodium	N.D.	16.7	mg/kg	105		80-120		
Thallium	N.D.	0.800	mg/kg	103		80-120		
Vanadium	N.D.	0.0910	mg/kg	105		80-120		
Zinc	N.D.	0.260	mg/kg	101		80-120		

Batch number: 151775711007 Sample number(s): 7941580-7941586,7941589
Mercury N.D. 0.0100 mg/kg 103 80-120

Batch number: 15180820007B Sample number(s): 7941580-7941586,7941589
Moisture 100 99-101
Moisture 100 99-101
Moisture Duplicate 100 99-101

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: A151781BA	Sample number(s): 7941580-7941582,7941584-7941587,7941589 UNSPK: 7941580								
Acetone	124	112	31-195	23	30				
Benzene	89	86	55-143	16	30				
Bromobenzene	85	76	43-139	24	30				
Bromochloromethane	98	96	60-137	15	30				
Bromodichloromethane	82	78	53-136	17	30				
Bromoform	65	54	50-144	29	30				
Bromomethane	92	95	42-168	10	30				
2-Butanone	73	66	37-163	22	30				
n-Butylbenzene	47	43	30-146	20	30				
sec-Butylbenzene	59	52	33-157	24	30				
tert-Butylbenzene	66	60	41-152	21	30				
Carbon Disulfide	85	83	48-146	15	30				
Carbon Tetrachloride	90	86	51-165	17	30				
Chlorobenzene	76	70	49-135	20	30				
Chloroethane	91	92	39-152	11	30				
Chloroform	95	92	61-142	16	30				
Chloromethane	102	105	36-143	9	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u>	<u>MSD</u>	<u>MS/MSD</u>	<u>RPD</u>	<u>BKG</u>	<u>DUP</u>	<u>DUP</u>	<u>Dup RPD</u>
	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
2-Chlorotoluene	78	68	42-146	25	30			
4-Chlorotoluene	76	67	39-145	25	30			
1,2-Dibromo-3-chloropropane	66	57	34-165	26	30			
Dibromochloromethane	79	72	51-128	21	30			
1,2-Dibromoethane	86	77	54-129	22	30			
Dibromomethane	87	81	57-130	19	30			
Dichlorodifluoromethane	112	114	26-151	11	30			
1,1-Dichloroethane	95	94	63-142	14	30			
1,2-Dichloroethane	93	88	54-143	18	30			
1,1-Dichloroethene	98	96	61-149	14	30			
cis-1,2-Dichloroethene	93	90	67-135	15	30			
trans-1,2-Dichloroethene	97	93	64-144	16	30			
1,2-Dichloropropane	90	86	54-144	17	30			
1,3-Dichloropropane	88	80	51-140	21	30			
2,2-Dichloropropane	96	95	53-147	13	30			
1,1-Dichloropropene	82	79	54-145	17	30			
cis-1,3-Dichloropropene	67	64	45-137	17	30			
trans-1,3-Dichloropropene	80	73	51-134	21	30			
Ethylbenzene	72	65	44-141	22	30			
2-Hexanone	71	64	32-160	23	30			
Isopropylbenzene	59	53	38-144	23	30			
p-Isopropyltoluene	55	49	29-152	24	30			
Methyl Tertiary Butyl Ether	91	88	55-129	16	30			
4-Methyl-2-pentanone	76	69	46-139	21	30			
Methylene Chloride	103	111	60-149	5	30			
n-Propylbenzene	73	66	39-157	22	30			
Styrene	67	59	35-134	25	30			
1,1,1,2-Tetrachloroethane	81	72	55-139	24	30			
1,1,2,2-Tetrachloroethane	96	85	29-182	25	30			
Tetrachloroethene	77	70	42-149	22	30			
Toluene	89	82	50-146	20	30			
1,2,3-Trichlorobenzene	22	19	10-140	28	30			
1,1,1-Trichloroethane	91	87	52-146	16	30			
1,1,2-Trichloroethane	91	82	58-152	22	30			
Trichloroethene	84	80	53-144	18	30			
Trichlorofluoromethane	100	100	47-163	12	30			
1,2,3-Trichloropropane	106	97	36-180	20	30			
1,2,4-Trimethylbenzene	71	64	37-149	23	30			
1,3,5-Trimethylbenzene	72	64	38-150	24	30			
Vinyl Chloride	105	107	50-154	11	30			
m+p-Xylene	70	62	44-137	25	30			
o-Xylene	66	59	42-137	23	30			

Batch number: Y151791AA Sample number(s): 7941588 UNSPK: P934600

Acetone	86	91	35-144	5	30			
Benzene	115	114	72-134	1	30			
Bromobenzene	108	109	82-115	1	30			
Bromochloromethane	122	121	76-134	1	30			
Bromodichloromethane	102	101	73-125	1	30			
Bromoform	91	89	48-118	3	30			
Bromomethane	81	80	47-129	2	30			
2-Butanone	91	91	44-135	0	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
n-Butylbenzene	104	104	74-134	0	30				
sec-Butylbenzene	107	107	74-137	0	30				
tert-Butylbenzene	104	104	81-121	0	30				
Carbon Disulfide	85	82	53-149	3	30				
Carbon Tetrachloride	120	117	75-148	2	30				
Chlorobenzene	113	112	87-124	1	30				
Chloroethane	74	74	55-130	0	30				
Chloroform	112	110	81-134	1	30				
Chloromethane	102	102	61-125	0	30				
2-Chlorotoluene	108	108	82-118	1	30				
4-Chlorotoluene	106	106	84-122	0	30				
1,2-Dibromo-3-chloropropane	76	75	50-123	2	30				
Dibromochloromethane	105	101	74-116	4	30				
1,2-Dibromoethane	110	108	77-116	2	30				
Dibromomethane	108	108	83-119	0	30				
Dichlorodifluoromethane	110	109	58-156	1	30				
1,1-Dichloroethane	105	104	84-129	1	30				
1,2-Dichloroethane	96	94	63-142	1	30				
1,1-Dichloroethene	106	108	79-137	1	30				
cis-1,2-Dichloroethene	125	124	80-141	0	30				
trans-1,2-Dichloroethene	112	112	86-131	0	30				
1,2-Dichloropropane	109	107	83-124	2	30				
1,3-Dichloropropane	101	100	81-120	1	30				
2,2-Dichloropropane	102	101	69-135	1	30				
1,1-Dichloropropene	105	104	86-137	1	30				
cis-1,3-Dichloropropene	95	96	70-116	1	30				
trans-1,3-Dichloropropene	95	94	74-119	1	30				
Ethylbenzene	108	107	71-134	1	30				
2-Hexanone	86	86	38-131	1	30				
Isopropylbenzene	105	104	75-128	1	30				
p-Isopropyltoluene	106	104	76-123	2	30				
Methyl Tertiary Butyl Ether	94	97	72-126	2	30				
4-Methyl-2-pentanone	88	89	45-128	1	30				
Methylene Chloride	102	101	78-133	1	30				
n-Propylbenzene	108	107	74-134	1	30				
Styrene	105	104	78-125	2	30				
1,1,1,2-Tetrachloroethane	112	110	80-123	2	30				
1,1,2,2-Tetrachloroethane	97	96	72-128	1	30				
Tetrachloroethene	123	120	80-128	2	30				
Toluene	111	110	80-125	2	30				
1,2,3-Trichlorobenzene	94	96	62-133	2	30				
1,1,1-Trichloroethane	103	100	69-140	3	30				
1,1,2-Trichloroethane	109	108	71-141	2	30				
Trichloroethene	125	120	88-133	2	30				
Trichlorofluoromethane	108	106	63-163	2	30				
1,2,3-Trichloropropane	99	102	76-118	2	30				
1,2,4-Trimethylbenzene	105	104	72-130	0	30				
1,3,5-Trimethylbenzene	106	105	65-132	1	30				
Vinyl Chloride	93	92	66-133	0	30				
m+p-Xylene	111	110	79-125	1	30				
o-Xylene	102	101	79-125	1	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	RPD	Max
Batch number: 15176SLG026	Sample number(s): 7941580-7941582,7941584-7941585,7941589 UNSPK: 7941580							
Acenaphthene	94	94	45-141	0	30			
Acenaphthylene	102	98	53-143	4	30			
Anthracene	99	99	42-147	0	30			
Benzidine	0*	0*	35-141	0	30			
Benzo(a)anthracene	85	87	32-150	3	30			
Benzo(a)pyrene	88	82	36-151	7	30			
Benzo(b)fluoranthene	84	83	29-150	1	30			
Benzo(g,h,i)perylene	96	96	41-147	0	30			
Benzo(k)fluoranthene	87	74	35-146	15	30			
Benzoic acid	55	53	23-170	4	30			
Benzyl alcohol	88	79	74-123	10	30			
4-Bromophenyl-phenylether	104	99	48-146	5	30			
Butylbenzylphthalate	88	90	50-137	2	30			
Di-n-butylphthalate	91	90	65-126	2	30			
Carbazole	93	89	36-143	4	30			
4-Chloro-3-methylphenol	79	75	48-141	5	30			
4-Chloroaniline	53	57	10-100	8	30			
bis(2-Chloroethoxy)methane	81	83	64-119	2	30			
bis(2-Chloroethyl)ether	82	77	63-122	5	30			
2-Chloronaphthalene	115	112	40-156	2	30			
2-Chlorophenol	100	95	50-142	5	30			
4-Chlorophenyl-phenylether	86	84	49-135	2	30			
2,2'-oxybis(1-Chloropropane)	86	80	60-120	6	30			
Chrysene	86	89	28-146	3	30			
Dibenz(a,h)anthracene	94	89	38-156	5	30			
Dibenzofuran	93	92	34-146	0	30			
1,2-Dichlorobenzene	95	88	51-130	8	30			
1,3-Dichlorobenzene	91	83	51-125	8	30			
1,4-Dichlorobenzene	88	82	50-127	7	30			
3,3'-Dichlorobenzidine	57	62	10-143	9	30			
2,4-Dichlorophenol	93	90	46-145	3	30			
Diethylphthalate	85	84	61-124	2	30			
2,4-Dimethylphenol	71	71	38-140	1	30			
Dimethylphthalate	88	87	59-124	1	30			
4,6-Dinitro-2-methylphenol	48	40	10-148	19	30			
2,4-Dinitrophenol	31	29	20-143	5	30			
2,4-Dinitrotoluene	88	82	37-149	7	30			
2,6-Dinitrotoluene	89	91	54-134	2	30			
bis(2-Ethylhexyl)phthalate	89	62	60-133	35*	30			
Fluoranthene	79	79	41-135	0	30			
Fluorene	91	89	43-146	2	30			
Hexachlorobenzene	100	95	36-150	4	30			
Hexachlorobutadiene	81	80	65-125	1	30			
Hexachlorocyclopentadiene	47	39	10-153	18	30			
Hexachloroethane	83	78	37-143	6	30			
Indeno(1,2,3-cd)pyrene	93	88	35-151	6	30			
Isophorone	79	77	68-119	3	30			
2-Methylnaphthalene	86	83	39-140	3	30			
2-Methylphenol	87	82	36-149	6	30			
4-Methylphenol	80	75	46-135	7	30			
Naphthalene	94	90	39-147	5	30			

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2-Nitroaniline	103	101	46-152	2	30				
3-Nitroaniline	93	90	31-145	3	30				
4-Nitroaniline	81	83	30-131	2	30				
Nitrobenzene	72	72	54-131	0	30				
2-Nitrophenol	92	95	38-150	3	30				
4-Nitrophenol	66	64	25-142	4	30				
N-Nitroso-di-n-propylamine	71	66	58-126	7	30				
N-Nitrosodiphenylamine	104	105	41-147	1	30				
Di-n-octylphthalate	92	83	53-156	10	30				
Pentachlorophenol	87	81	23-145	7	30				
Phenanthrene	95	94	42-141	1	30				
Phenol	78	74	53-129	4	30				
Pyrene	84	85	37-140	2	30				
1,2,4-Trichlorobenzene	91	90	45-139	1	30				
2,4,5-Trichlorophenol	95	89	42-144	6	30				
2,4,6-Trichlorophenol	97	99	43-145	2	30				
Batch number: 15176SLI026 Sample number(s): 7941586 UNSPK: 7941586									
Acenaphthene	96	92	45-141	5	30				
Acenaphthylene	102	98	53-143	4	30				
Anthracene	102	100	42-147	2	30				
Benizidine	54	70	35-141	26	30				
Benzo(a)anthracene	88	87	32-150	1	30				
Benzo(a)pyrene	91	91	36-151	0	30				
Benzo(b)fluoranthene	85	83	29-150	2	30				
Benzo(g,h,i)perylene	96	96	41-147	0	30				
Benzo(k)fluoranthene	85	84	35-146	2	30				
Benzoic acid	0*	0*	23-170	0	30				
Benzyl alcohol	87	87	74-123	1	30				
4-Bromophenyl-phenylether	102	102	48-146	1	30				
Butylbenzylphthalate	94	88	50-137	6	30				
Di-n-butylphthalate	92	90	65-126	2	30				
Carbazole	94	93	36-143	2	30				
4-Chloro-3-methylphenol	6*	9*	48-141	45*	30				
4-Chloroaniline	55	76	10-100	32*	30				
bis(2-Chloroethoxy)methane	84	82	64-119	2	30				
bis(2-Chloroethyl)ether	72	105	63-122	37*	30				
2-Chloronaphthalene	98	96	40-156	1	30				
2-Chlorophenol	1*	2*	50-142	48*	30				
4-Chlorophenyl-phenylether	86	84	49-135	4	30				
2,2'-oxybis(1-Chloropropane)	90	88	60-120	2	30				
Chrysene	90	90	28-146	1	30				
Dibenz(a,h)anthracene	96	95	38-156	1	30				
Dibenzofuran	92	91	34-146	0	30				
1,2-Dichlorobenzene	97	94	51-130	3	30				
1,3-Dichlorobenzene	90	89	51-125	1	30				
1,4-Dichlorobenzene	91	89	50-127	3	30				
3,3'-Dichlorobenzidine	50	70	10-143	33*	30				
2,4-Dichlorophenol	0*	2*	46-145	200*	30				
Diethylphthalate	80	80	61-124	1	30				
2,4-Dimethylphenol	43	57	38-140	27	30				
Dimethylphthalate	78	78	59-124	0	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
4,6-Dinitro-2-methylphenol	0*	13	10-148	200*	30			
2,4-Dinitrophenol	0*	0*	20-143	0	30			
2,4-Dinitrotoluene	79	78	37-149	2	30			
2,6-Dinitrotoluene	96	93	54-134	4	30			
bis(2-Ethylhexyl)phthalate	92	92	60-133	1	30			
Fluoranthene	87	84	41-135	5	30			
Fluorene	95	90	43-146	6	30			
Hexachlorobenzene	98	98	36-150	0	30			
Hexachlorobutadiene	84	81	65-125	3	30			
Hexachlorocyclopentadiene	19	18	10-153	2	30			
Hexachloroethane	83	84	37-143	1	30			
Indeno(1,2,3-cd)pyrene	91	93	35-151	2	30			
Isophorone	79	79	68-119	1	30			
2-Methylnaphthalene	88	86	39-140	2	30			
2-Methylphenol	40	50	36-149	24	30			
4-Methylphenol	21*	30*	46-135	35*	30			
Naphthalene	91	90	39-147	1	30			
2-Nitroaniline	102	99	46-152	4	30			
3-Nitroaniline	88	92	31-145	4	30			
4-Nitroaniline	90	91	30-131	1	30			
Nitrobenzene	74	71	54-131	4	30			
2-Nitrophenol	1*	2*	38-150	70*	30			
4-Nitrophenol	0*	0*	25-142	0	30			
N-Nitroso-di-n-propylamine	75	75	58-126	1	30			
N-Nitrosodiphenylamine	107	105	41-147	3	30			
Di-n-octylphthalate	89	88	53-156	2	30			
Pentachlorophenol	3*	9*	23-145	87*	30			
Phenanthrene	99	96	42-141	3	30			
Phenol	15*	21*	53-129	31*	30			
Pyrene	91	91	37-140	1	30			
1,2,4-Trichlorobenzene	90	91	45-139	0	30			
2,4,5-Trichlorophenol	2*	4*	42-144	79*	30			
2,4,6-Trichlorophenol	2*	4*	43-145	70*	30			

Batch number: 151775708006	Sample number(s): 7941580-7941586,7941589 UNSPK: 7941580 BKG: 7941580								
Aluminum	1077	1276	75-125	5	20	6,960	7,720	10	20
	(2)	(2)							
Antimony	84	86	75-125	5	20	2.20	2.22	1 (1)	20
Arsenic	110	109	75-125	1	20	7.74	7.67	1 (1)	20
Barium	100	102	75-125	4	20	25.6	27.4	7	20
Beryllium	108	108	75-125	2	20	0.487	0.540	10 (1)	20
Cadmium	94	98	75-125	6	20	N.D.	N.D.	0 (1)	20
Calcium	1 (2)	-37 (2)	75-125	3	20	4,480	4,030	10	20
Chromium	110	114	75-125	4	20	11.2	12.8	14	20
Cobalt	98	97	75-125	2	20	7.72	8.34	8	20
Copper	112	103	75-125	3	20	23.0	23.4	2	20
Iron	3254	44 (2)	75-125	18	20	15,300	16,600	8	20
	(2)								
Lead	111	151*	75-125	16	20	19.4	20.6	6	20
Magnesium	138 (2)	-72 (2)	75-125	10	20	3,810	3,680	3	20
Manganese	214 (2)	119 (2)	75-125	11	20	303	328	8	20
Nickel	98	98	75-125	2	20	17.1	18.7	9	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Potassium	178*	192*	75-125	6	20	1,690	1,930	13	20
Selenium	104	99	75-125	2	20	2.18	2.70	21* (1)	20
Silver	93	89	75-125	1	20	0.642	0.491	27* (1)	20
Sodium	107	107	75-125	3	20	74.6	83.9	12 (1)	20
Thallium	105	104	75-125	2	20	N.D.	0.789	200* (1)	20
Vanadium	114	113	75-125	2	20	18.8	20.1	6	20
Zinc	128*	89	75-125	10	20	113	123	9	20

Batch number: 151775711007 Sample number(s): 7941580-7941586,7941589 UNSPK: 7941580 BKG: 7941580
Mercury 109 108 80-120 1 20 0.0210 J 0.0246 J 16 (1) 20

Batch number: 15180820007B Sample number(s): 7941580-7941586,7941589 BKG: 7941580
Moisture 11.4 11.0 4 5
Moisture 11.4 11.0 4 5
Moisture Duplicate 11.4 11.0 4 5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: A151781BA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7941580	110	105	105	77
7941581	103	102	111	89
7941582	104	105	111	87
7941584	106	100	107	82
7941585	110	107	132	59
7941586	43*	106	99	90
7941587	107	103	99	88
7941589	110	110	104	80
Blank	105	102	99	91
LCS	101	102	103	99
MS	103	102	111	89
MSD	104	105	111	87
Limits:	50-141	54-135	52-141	50-131

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: Y151791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7941588	114	111	97	84
Blank	109	108	97	86
LCS	102	104	100	97
MS	104	105	101	97
MSD	103	109	99	96
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 11:50

Group Number: 1571673

Surrogate Quality Control

Analysis Name: SVOA 8270D (microwave)
Batch number: 15176SLG026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7941580	81	89	79	71	93	91
7941581	82	91	82	72	96	90
7941582	76	85	82	72	97	89
7941584	87	97	86	76	101	94
7941585	83	94	83	71	100	95
7941589	84	93	85	75	97	92
Blank	84	96	107	76	97	101
LCS	92	103	98	76	94	99
MS	82	91	82	72	96	90
MSD	76	85	82	72	97	89
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

Analysis Name: SVOA 8270D (microwave)
Batch number: 15176SLI026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7941586	17*	1*	2*	75	96	90
Blank	86	98	104	73	98	101
LCS	90	101	99	72	94	97
MS	13*	1*	3*	73	94	94
MSD	20*	2*	6*	73	93	93
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

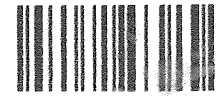
Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1571673 Sample # 7941580-89
Instructions on reverse side correspond with circled numbers.



366253

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only			
Client: <u>GeoSyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: _____	Total # of Containers	Preservation Codes				FSC: _____					
Project Name/#: <u>C1R 8417</u>		PWSID #:				VOCs 82608 SVOCs 82700 TAL Metals + 67					SCR#: _____				
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:									Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other				
Sampler: <u>Various</u>		Quote #:									6 Remarks				
Name of state where samples were collected: <u>IN</u>				3 Composite											
2 Sample Identification		Collected		Grab	Composite										
		Date	Time			Soil <input checked="" type="checkbox"/>	Water	Other:							
<u>PLA-S-FS-SB08-0-1</u>		<u>23 Jun 15</u>	<u>0830</u>	<input checked="" type="checkbox"/>			4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
<u>PLA-S-FS-SB08-0-1 MS</u>			<u>0830</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-FS-SB08-0-1 MSD</u>			<u>0830</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-FS-SB08-7-8</u>			<u>0840</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-FS-SB08-18-19</u>			<u>0945</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-FS-SB07-0-1</u>			<u>1045</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-FS-SB07-7-8</u>			<u>1050</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-FS-SB07-15-16</u>			<u>1130</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-FS^{23 Jun 15} LT-SB06-0-1</u>			<u>1255</u>	<input checked="" type="checkbox"/>											
<u>PLA-S-LT-SB06-0-1 MS</u>			<u>1255</u>	<input checked="" type="checkbox"/>											
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time				
Standard <u>Rush</u> <u>5 day PM</u>						<u>23 Jun 15</u>	<u>1650</u>			<u>6/23/15</u>	<u>16:50</u>				
(Rush TAT is subject to laboratory approval and surcharge.)						Relinquished by				Date	Time	Received by		Date	Time
Date results are needed: _____						Relinquished by				Date	Time	Received by		Date	Time
E-mail address: <u>d.kulczykcki@geosyntec.com</u>						Relinquished by				Date	Time	Received by		Date	Time
8 Data Package Options (circle if required) <u>Type III CLP SW</u>				Relinquished by		Date	Time	Received by		Date	Time				
Type I (Validation/non-CLP)		Type VI (Raw Data Only)		Relinquished by		Date	Time	Received by		Date	Time				
Type III (Reduced non-CLP)		TX TRRP-13		Relinquished by		Date	Time	Received by		Date	Time				
NYSDEC Category A or B		MA MCP CT RCP		Relinquished by		Date	Time	Received by		Date	Time				
				EDD Required? <u>Yes</u> No				Relinquished by Commercial Carrier:							
				If yes, format: _____				UPS _____ FedEx <input checked="" type="checkbox"/> Other _____							
				Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No				Temperature upon receipt <u>0.3-0.6 °C</u>							
				(If yes, indicate QC sample and submit triplicate sample volume.)											

Environmental Analysis Request/Chain of Custody



380542



Lancaster Laboratories Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1571673 Sample # 7941580-89
Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix		5 Analysis Requested			For Lab Use Only						
Client: <u>Geosyntec Consultants</u>		Acct. #:	<input type="checkbox"/> Sediment <input type="checkbox"/> Potable Water <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Trip Blank <input type="checkbox"/> NPDES <input type="checkbox"/> Other: <u>Concrete</u>		Preservation Codes			FSC: _____	SCR#: _____					
Project Name/ #: <u>CHR8417</u>		PWSID #:			Total # of Containers <u>VOCs 826013</u> <u>SVOCs 8270D</u> <u>TAL Metals + Hg</u>			Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other						
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:												
Sampler: <u>Various</u>		Quote #:												
Name of state where samples were collected: <u>IN</u>			3		6 Remarks									
2 Sample Identification		Collected		Grab						Composite	Soil	Water	Other	Total # of Containers
		Date	Time											
<u>PLA-S-LT-SB06-0-i MSD</u>		<u>6/23/15</u>	<u>1255</u>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>			<u>5</u>
<u>PLA-S-LT-SB06-6-7</u>		<u>↓</u>	<u>1250</u>	<input checked="" type="checkbox"/>							<input type="checkbox"/>			<u>↓</u>
<u>PLA-S-LT-SB06-15-16</u>		<u>↓</u>	<u>1320</u>	<input checked="" type="checkbox"/>							<input type="checkbox"/>			<u>↓</u>
<u>PLA-CS-Genex bldg-A7</u>		<u>↓</u>	<u>1610²³</u>	<input checked="" type="checkbox"/>							<input type="checkbox"/>		<u>X</u>	<u>2</u>
<u>TB-062315-S1</u>		<u>6/23/15</u>	<u>1500</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>2</u>					
<u>TB-062315-C1</u>		<u>6/23/15</u>	<u>1620</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>2</u>					
<u>DUP-062315-001</u>		<u>6/23/15</u>	<u>—</u>	<input checked="" type="checkbox"/>					<u>X</u>					

7 Turnaround Time (TAT) Requested (please circle)
 Standard Rush 5 day TAT
(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____
 E-mail address: dkulczykcki@geosyntec.com

8 Data Package Options (circle if required)
 Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
 Type III (Reduced non-CLP) TX TRRP-13
 NYSDEC Category A or B MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
<u>[Signature]</u>	<u>23 Jun 2015</u>	<u>16:50</u>	<u>[Signature]</u>	<u>6/23/15</u>	<u>16:55</u>
Relinquished by	Date	Time	Received by	Date	Time
<u>[Signature]</u>	<u>6/23/15</u>	<u>17:11</u>	<u>[Signature]</u>		
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
			<u>[Signature]</u>	<u>6/24/15</u>	<u>09:20</u>
EDD Required? <u>Yes</u> No			Relinquished by Commercial Carrier:		
If yes, format: _____			UPS _____ FedEx <input checked="" type="checkbox"/> Other _____		
Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No			Temperature upon receipt <u>0.3 - 0.6 °C</u>		
(If yes, indicate QC sample and submit triplicate sample volume.)					

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 01, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/25/2015

Group Number: 1572076

SDG: NWP23

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

VP-GTW-AOC13-SB11 Grab Groundwater
VP-GTW-ROAD-SB20 Grab Groundwater
VP-GTW-AOC9-SB06 Grab Groundwater
VP-GTW-AOC9-SB05 Grab Groundwater
PLA-GTW-GP-SB01 Grab Groundwater
TB-06242015-GTW Water

Lancaster Labs (LL)

7943401
7943402
7943403
7943404
7943405
7943406

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: VP-GTW-AOC13-SB11 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943401
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 14:40 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

V1311 SDG#: NWP23-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-AOC13-SB11 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943401
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 14:40 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

V1311 SDG#: NWP23-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151812AA	07/01/2015 03:34	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151812AA	07/01/2015 03:34	Sara E Johnson	1
13624	18 PAHs	SW-846 8270D	1	15177WAE026	06/27/2015 20:56	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15177WAE026	06/26/2015 16:00	Ryan A Schafran	1

Sample Description: VP-GTW-ROAD-SB20 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943402
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 13:00 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

VRD20 SDG#: NWP23-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-ROAD-SB20 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943402
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 13:00 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

VRD20 SDG#: NWP23-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	0.9 J	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	T151812AA	07/01/2015 03:58	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151812AA	07/01/2015 03:58	Sara E Johnson	1
13624	18 PAHs	SW-846 8270D	1	15177WAE026	06/27/2015 21:25	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15177WAE026	06/26/2015 16:00	Ryan A Schafran	1

Sample Description: VP-GTW-AOC9-SB06 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943403
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 10:40 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

V0906 SDG#: NWP23-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	4	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-AOC9-SB06 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943403
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 10:40 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

V0906 SDG#: NWP23-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	0.6 J	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151812AA	07/01/2015 04:22	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151812AA	07/01/2015 04:22	Sara E Johnson	1
13624	18 PAHs	SW-846 8270D	1	15177WAE026	06/27/2015 21:55	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15177WAE026	06/26/2015 16:00	Ryan A Schafran	1

Sample Description: VP-GTW-AOC9-SB05 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943404
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 09:25 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

V0905 SDG#: NWP23-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	2	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-AOC9-SB05 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943404
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 09:25 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

V0905 SDG#: NWP23-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B		ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles		SW-846 8270D		ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	0.1 J	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	2	0.1	1
13624	Phenanthrene	85-01-8	0.1 J	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	T151812AA	07/01/2015 04:45	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151812AA	07/01/2015 04:45	Sara E Johnson	1
13624	18 PAHs	SW-846 8270D	1	15177WAE026	06/27/2015 22:24	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15177WAE026	06/26/2015 16:00	Ryan A Schafran	1

Sample Description: PLA-GTW-GP-SB01 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943405
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 16:10 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

PSB01 SDG#: NWP23-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	2	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: PLA-GTW-GP-SB01 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943405
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 16:10 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/25/2015 09:10

Reported: 07/01/2015 13:50

PSB01 SDG#: NWP23-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151812AA	07/01/2015 05:09	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151812AA	07/01/2015 05:09	Sara E Johnson	1
13624	18 PAHs	SW-846 8270D	1	15177WAE026	06/28/2015 19:56	William H Saadeh	1
00813	BNA Water Extraction	SW-846 3510C	1	15177WAE026	06/26/2015 16:00	Ryan A Schafran	1

Sample Description: TB-06242015-GTW Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943406
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 16:30

Geosyntec

Submitted: 06/25/2015 09:10

1420 Kensington Road

Reported: 07/01/2015 13:50

Suite 103

Oakbrook IL 60523

TB24G SDG#: NWP23-06TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-06242015-GTW Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7943406
LL Group # 1572076
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/24/2015 16:30

Geosyntec

Submitted: 06/25/2015 09:10

1420 Kensington Road

Reported: 07/01/2015 13:50

Suite 103

Oakbrook IL 60523

TB24G SDG#: NWP23-06TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	T151812AA	06/30/2015 22:00	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151812AA	06/30/2015 22:00	Sara E Johnson	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 13:50

Group Number: 1572076

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T151812AA	Sample number(s): 7943401-7943406							
Acetone	N.D.	6.	ug/l	96	95	55-129	1	30
Benzene	N.D.	0.5	ug/l	96	96	78-120	0	30
Bromobenzene	N.D.	1.	ug/l	96	97	80-120	1	30
Bromochloromethane	N.D.	1.	ug/l	95	95	80-120	1	30
Bromodichloromethane	N.D.	0.5	ug/l	91	92	73-120	1	30
Bromoform	N.D.	0.5	ug/l	83	86	52-123	3	30
Bromomethane	N.D.	0.5	ug/l	64	75	53-130	16	30
2-Butanone	N.D.	3.	ug/l	106	107	54-133	1	30
n-Butylbenzene	N.D.	1.	ug/l	95	95	68-120	0	30
sec-Butylbenzene	N.D.	1.	ug/l	101	103	75-120	2	30
tert-Butylbenzene	N.D.	1.	ug/l	94	98	80-120	3	30
Carbon Disulfide	N.D.	1.	ug/l	71	72	58-126	2	30
Carbon Tetrachloride	N.D.	0.5	ug/l	107	106	74-130	1	30
Chlorobenzene	N.D.	0.5	ug/l	99	101	80-120	2	30
Chloroethane	N.D.	0.5	ug/l	83	84	56-120	1	30
Chloroform	N.D.	0.5	ug/l	98	98	80-120	1	30
Chloromethane	N.D.	0.5	ug/l	87	89	63-120	3	30
2-Chlorotoluene	N.D.	1.	ug/l	92	94	80-120	2	30
4-Chlorotoluene	N.D.	1.	ug/l	92	94	80-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	93	94	56-120	1	30
Dibromochloromethane	N.D.	0.5	ug/l	90	91	72-120	2	30
1,2-Dibromoethane	N.D.	0.5	ug/l	102	102	80-120	0	30
Dibromomethane	N.D.	0.5	ug/l	94	95	80-120	2	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	92	94	55-127	2	30
1,1-Dichloroethane	N.D.	0.5	ug/l	99	100	80-120	1	30
1,2-Dichloroethane	N.D.	0.5	ug/l	101	102	72-127	0	30
1,1-Dichloroethene	N.D.	0.5	ug/l	87	86	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	98	96	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	100	97	80-120	3	30
1,2-Dichloropropane	N.D.	0.5	ug/l	101	103	80-120	3	30
1,3-Dichloropropane	N.D.	0.5	ug/l	98	99	80-120	1	30
2,2-Dichloropropane	N.D.	0.5	ug/l	101	103	63-131	3	30
1,1-Dichloropropene	N.D.	1.	ug/l	97	97	80-126	1	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	96	98	80-120	2	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	102	101	76-120	1	30
Ethylbenzene	N.D.	0.5	ug/l	102	103	80-120	0	30
2-Hexanone	N.D.	3.	ug/l	106	107	50-131	1	30
Isopropylbenzene	N.D.	1.	ug/l	104	105	80-120	1	30
p-Isopropyltoluene	N.D.	1.	ug/l	96	96	76-120	0	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	99	99	75-120	0	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	105	106	51-124	1	30
Methylene Chloride	N.D.	2.	ug/l	87	90	80-120	3	30
n-Propylbenzene	N.D.	1.	ug/l	99	99	80-120	0	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 13:50

Group Number: 1572076

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	101	102	80-120	1	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	100	99	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	86	87	70-120	1	30
Tetrachloroethene	N.D.	0.5	ug/l	103	103	80-120	0	30
Toluene	N.D.	0.5	ug/l	98	100	80-120	1	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	92	91	69-120	1	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	95	95	66-126	0	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	96	96	80-120	0	30
Trichloroethene	N.D.	0.5	ug/l	102	100	80-120	2	30
Trichlorofluoromethane	N.D.	0.5	ug/l	104	104	58-135	0	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	98	99	76-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	103	102	80-120	1	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	100	101	80-120	1	30
Vinyl Chloride	N.D.	0.5	ug/l	91	89	69-120	2	30
m+p-Xylene	N.D.	0.5	ug/l	104	106	80-120	2	30
o-Xylene	N.D.	0.5	ug/l	101	101	80-120	0	30

Batch number: 15177WAE026	Sample number(s): 7943401-7943405							
Acenaphthene	N.D.	0.1	ug/l	83	105	80-112	23	30
Acenaphthylene	N.D.	0.1	ug/l	93	115	78-125	22	30
Anthracene	N.D.	0.1	ug/l	87	107	82-116	20	30
Benzo(a)anthracene	N.D.	0.1	ug/l	89	109	76-122	20	30
Benzo(a)pyrene	N.D.	0.1	ug/l	86	108	73-120	22	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	91	110	75-123	19	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	94	116	70-126	21	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	88	109	74-119	22	30
Chrysene	N.D.	0.1	ug/l	91	112	81-120	20	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	97	119	72-127	20	30
Fluoranthene	N.D.	0.1	ug/l	89	108	76-117	19	30
Fluorene	N.D.	0.1	ug/l	86	107	80-117	21	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	93	113	70-121	20	30
Naphthalene	N.D.	0.1	ug/l	83	101	75-108	20	30
Phenanthrene	N.D.	0.1	ug/l	85	103	81-114	20	30
Pyrene	N.D.	0.1	ug/l	81	100	76-111	21	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: T151812AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7943401	105	100	101	97
7943402	103	100	100	96
7943403	104	97	100	93
7943404	103	99	99	98
7943405	103	99	101	96
7943406	104	102	104	97
Blank	102	102	103	95

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/01/2015 13:50

Group Number: 1572076

Surrogate Quality Control

LCS	100	102	101	101
LCSD	99	104	102	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 18 PAHs
Batch number: 15177WAE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7943401	82	79	78
7943402	86	83	83
7943403	89	85	71
7943404	87	84	84
7943405	84	81	59
Blank	84	81	84
LCS	93	84	87
LCSD	87	82	81
Limits:	60-123	61-112	35-144

*- Outside of specification

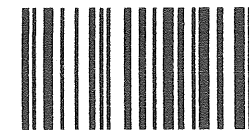
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1572076 Sample # 7943401-06
Instructions on reverse side correspond with circled numbers.



356420

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only	
Client: <u>GEOSYNTEC CONSULTANTS</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Other: <u>TRIP BLANK</u>	Total # of Containers	Preservation Codes				FSC: _____			
Project Name/ #: <u>CHR8417</u>		PWSID #:				VOCs <u>82603</u> SVOCs <u>82700</u>	SCR#: _____						
Project Manager: <u>DAVID KULCZYCKI</u>		P.O. #:					Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other						
Sampler: <u>ALYSSA OFFUTT</u>		Quote #:					6 Remarks						
Name of state where samples were collected: <u>IN</u>		3											
2 Sample Identification		Collected		3 Grab	Composite	Soil	Water	Other	Total # of Containers	VOCs	SVOCs		
		Date	Time										
<u>VP-GTW-AOC13-SB11</u>		<u>6/24/15</u>	<u>1440</u>				<u>X</u>		<u>5</u>	<u>X</u>	<u>X</u>		
<u>VP-GTW-ROAD-SB20</u>		<u>6/24/15</u>	<u>1300</u>				<u>X</u>		<u>5</u>	<u>X</u>	<u>X</u>		
<u>VP-GTW-AOC9-SB06</u>		<u>6/24/15</u>	<u>1040</u>				<u>X</u>		<u>5</u>	<u>X</u>	<u>X</u>		
<u>VP-GTW-AOC9-SB05</u>		<u>6/24/15</u>	<u>925</u>				<u>X</u>		<u>5</u>	<u>X</u>	<u>X</u>		
<u>PLA-GTW-GP-SB01</u>		<u>6/24/15</u>	<u>1610</u>				<u>X</u>		<u>5</u>	<u>X</u>	<u>X</u>		
<u>TB-06242015-GTW</u>		<u>6/24/15</u>	<u>1630</u>				<u>X</u>	<u>X</u>	<u>2</u>	<u>X</u>			
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by	Date	Time	9		
Standard <u>Rush</u>				<u>[Signature]</u>		<u>6/24/15</u>	<u>1645</u>	<u>[Signature]</u>	<u>6/24/15</u>	<u>16:50</u>			
(Rush TAT is subject to laboratory approval and surcharge.) <u>5 DAY</u>				<u>[Signature]</u>		<u>6/24/15</u>	<u>17:54</u>	<u>[Signature]</u>					
Date results are needed: _____				Relinquished by		Date	Time	Received by	Date	Time			
E-mail address: _____				Relinquished by		Date	Time	Received by	Date	Time			
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by	Date	Time			
Type I (Validation/non-CLP)		Type VI (Raw Data Only)		<u>[Signature]</u>				<u>[Signature]</u>	<u>6/25/15</u>	<u>0910</u>			
Type III (Reduced non-CLP)		TX TRRP-13		Relinquished by		Date	Time	Received by	Date	Time			
<u>Type IV (CLP SOW)</u>		MA MCP CT RCP		Relinquished by		Date	Time	Received by	Date	Time			
EDD Required? <u>Yes</u> No				Relinquished by Commercial Carrier:		If yes, format:		UPS _____ FedEx <u>✓</u> Other _____		Temperature upon receipt <u>04-08</u> °C			
Site-Specific QC (MS/MSD/Dup)? Yes <u>No</u>				Relinquished by		(If yes, indicate QC sample and submit triplicate sample volume.)							

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 06, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/26/2015

Group Number: 1572462

SDG: NWP25

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

RB-017 Grab Water
TB-062515-RB Water

Lancaster Labs (LL) #

7945292
7945293

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: RB-017 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945292
LL Group # 1572462
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:30

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/06/2015 15:50

Suite 103

Oakbrook IL 60523

RB017 SDG#: NWP25-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-017 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945292
LL Group # 1572462
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:30

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/06/2015 15:50

Suite 103

Oakbrook IL 60523

RB017 SDG#: NWP25-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzidine	92-87-5	N.D.	21	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	11	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: RB-017 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945292
LL Group # 1572462
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:30

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Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/06/2015 15:50

Suite 103

Oakbrook IL 60523

RB017 SDG#: NWP25-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270D	ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	11	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.				
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	11	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

Metals	SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674
07044	Antimony	7440-36-0	N.D.	0.0051
07035	Arsenic	7440-38-2	N.D.	0.0072
07046	Barium	7440-39-3	N.D.	0.00033
07047	Beryllium	7440-41-7	N.D.	0.00067

Sample Description: RB-017 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945292
LL Group # 1572462
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:30

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Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/06/2015 15:50

Suite 103

Oakbrook IL 60523

RB017 SDG#: NWP25-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals SW-846 6010B			mg/l	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	N.D.	0.0334	1
07051	Chromium	7440-47-3	N.D.	0.0013	1
07052	Cobalt	7440-48-4	N.D.	0.0010	1
01754	Iron	7439-89-6	N.D.	0.0334	1
01757	Magnesium	7439-95-4	N.D.	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	N.D.	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0020	1
SW-846 6020			mg/l	mg/l	
06033	Copper	7440-50-8	N.D.	0.00050	1
06035	Lead	7439-92-1	N.D.	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
SW-846 7470A			mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 18:08	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 18:08	Angela D Sneeringer	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15178WAH026	07/03/2015 18:51	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15178WAH026	06/27/2015 21:10	Karen L Beyer	1
01743	Aluminum	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
07044	Antimony	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
07035	Arsenic	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
07046	Barium	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
07047	Beryllium	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
07049	Cadmium	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
01750	Calcium	SW-846 6010B	1	151811848001	07/02/2015 04:42	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
07052	Cobalt	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1
01754	Iron	SW-846 6010B	1	151811848001	07/01/2015 17:59	Suzanne M Will	1

Sample Description: RB-017 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945292
LL Group # 1572462
Account # 20448

Project Name: Newporte Landing Development Site

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Suite 103

Oakbrook IL 60523

RB017 SDG#: NWP25-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01757	Magnesium	SW-846 6010B	1	151811848001	07/01/2015	17:59	Suzanne M Will	1
07058	Manganese	SW-846 6010B	1	151811848001	07/01/2015	17:59	Suzanne M Will	1
07061	Nickel	SW-846 6010B	1	151811848001	07/01/2015	17:59	Suzanne M Will	1
01762	Potassium	SW-846 6010B	1	151811848001	07/01/2015	17:59	Suzanne M Will	1
01767	Sodium	SW-846 6010B	1	151811848001	07/01/2015	17:59	Suzanne M Will	1
07071	Vanadium	SW-846 6010B	1	151811848001	07/01/2015	17:59	Suzanne M Will	1
07072	Zinc	SW-846 6010B	1	151811848001	07/01/2015	17:59	Suzanne M Will	1
06033	Copper	SW-846 6020	1	151816050001A	07/01/2015	12:47	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151816050001A	07/01/2015	12:47	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151816050001B	07/01/2015	12:47	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151816050001A	07/01/2015	12:47	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151816050001A	07/01/2015	12:47	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151805713002	07/01/2015	21:37	Parker D Lindstrom	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151811848001	06/30/2015	22:30	Annamaria Kuhns	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151816050001	06/30/2015	22:30	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151805713002	07/01/2015	04:20	Annamaria Kuhns	1

Sample Description: TB-062515-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945293
LL Group # 1572462
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:50

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1420 Kensington Road

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Suite 103

Oakbrook IL 60523

TB25R SDG#: NWP25-02TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-062515-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945293
LL Group # 1572462
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:50

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/06/2015 15:50

Suite 103

Oakbrook IL 60523

TB25R SDG#: NWP25-02TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 18:32	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 18:32	Angela D Sneeringer	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 15:50

Group Number: 1572462

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T151861AA	Sample number(s): 7945292-7945293							
Acetone	N.D.	6.	ug/l	88	92	55-129	4	30
Benzene	N.D.	0.5	ug/l	94	92	78-120	2	30
Bromobenzene	N.D.	1.	ug/l	100	95	80-120	5	30
Bromochloromethane	N.D.	1.	ug/l	100	95	80-120	4	30
Bromodichloromethane	N.D.	0.5	ug/l	92	91	73-120	1	30
Bromoform	N.D.	0.5	ug/l	94	96	52-123	2	30
Bromomethane	N.D.	0.5	ug/l	93	87	53-130	6	30
2-Butanone	N.D.	3.	ug/l	93	94	54-133	1	30
n-Butylbenzene	N.D.	1.	ug/l	105	97	68-120	7	30
sec-Butylbenzene	N.D.	1.	ug/l	103	97	75-120	6	30
tert-Butylbenzene	N.D.	1.	ug/l	117	101	80-120	15	30
Carbon Disulfide	N.D.	1.	ug/l	82	84	58-126	3	30
Carbon Tetrachloride	N.D.	0.5	ug/l	98	98	74-130	0	30
Chlorobenzene	N.D.	0.5	ug/l	98	98	80-120	0	30
Chloroethane	N.D.	0.5	ug/l	92	92	56-120	0	30
Chloroform	N.D.	0.5	ug/l	94	93	80-120	1	30
Chloromethane	N.D.	0.5	ug/l	89	88	63-120	2	30
2-Chlorotoluene	N.D.	1.	ug/l	102	100	80-120	2	30
4-Chlorotoluene	N.D.	1.	ug/l	102	100	80-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	95	90	56-120	6	30
Dibromochloromethane	N.D.	0.5	ug/l	100	99	72-120	0	30
1,2-Dibromoethane	N.D.	0.5	ug/l	102	104	80-120	2	30
Dibromomethane	N.D.	0.5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	85	85	55-127	1	30
1,1-Dichloroethane	N.D.	0.5	ug/l	104	105	80-120	1	30
1,2-Dichloroethane	N.D.	0.5	ug/l	102	104	72-127	2	30
1,1-Dichloroethene	N.D.	0.5	ug/l	102	101	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	103	103	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	104	105	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	ug/l	108	110	80-120	1	30
1,3-Dichloropropane	N.D.	0.5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	N.D.	0.5	ug/l	95	96	63-131	2	30
1,1-Dichloropropene	N.D.	1.	ug/l	92	93	80-126	1	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	94	95	80-120	1	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	103	101	76-120	1	30
Ethylbenzene	N.D.	0.5	ug/l	111	112	80-120	1	30
2-Hexanone	N.D.	3.	ug/l	103	103	50-131	0	30
Isopropylbenzene	N.D.	1.	ug/l	102	103	80-120	1	30
p-Isopropyltoluene	N.D.	1.	ug/l	98	94	76-120	5	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93	94	75-120	1	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	94	95	51-124	0	30
Methylene Chloride	N.D.	2.	ug/l	90	92	80-120	1	30
n-Propylbenzene	N.D.	1.	ug/l	111	107	80-120	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 15:50

Group Number: 1572462

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	102	104	80-120	2	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	104	106	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	97	91	70-120	6	30
Tetrachloroethene	N.D.	0.5	ug/l	104	107	80-120	3	30
Toluene	N.D.	0.5	ug/l	108	108	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	100	92	69-120	9	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	94	92	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	104	103	80-120	1	30
Trichloroethene	N.D.	0.5	ug/l	102	104	80-120	1	30
Trichlorofluoromethane	N.D.	0.5	ug/l	92	93	58-135	2	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	98	96	76-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	104	101	80-120	3	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	104	98	80-120	6	30
Vinyl Chloride	N.D.	0.5	ug/l	102	100	69-120	2	30
m+p-Xylene	N.D.	0.5	ug/l	105	105	80-120	0	30
o-Xylene	N.D.	0.5	ug/l	102	101	80-120	1	30

Batch number: 15178WAH026

Sample number(s): 7945292

Acenaphthene	N.D.	0.1	ug/l	79*	55*	80-112	36*	30
Acenaphthylene	N.D.	0.1	ug/l	87	63*	78-125	33*	30
Anthracene	N.D.	0.1	ug/l	85	58*	82-116	38*	30
Benzidine	N.D.	20.	ug/l	6*	68	21-88	169*	30
Benzo(a)anthracene	N.D.	0.1	ug/l	84	60*	76-122	33*	30
Benzo(a)pyrene	N.D.	0.1	ug/l	83	56*	73-120	39*	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	83	57*	75-123	37*	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	90	62*	70-126	38*	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	84	56*	74-119	40*	30
Benzoic acid	N.D.	6.	ug/l	54	31	10-97	53*	30
Benzyl alcohol	N.D.	10.	ug/l	84	70	54-115	19	30
4-Bromophenyl-phenylether	N.D.	0.5	ug/l	80	54*	76-116	39*	30
Butylbenzylphthalate	N.D.	2.	ug/l	70	51*	68-119	32*	30
Di-n-butylphthalate	N.D.	2.	ug/l	76	53*	74-114	35*	30
Carbazole	N.D.	0.5	ug/l	85	66*	79-115	25	30
4-Chloro-3-methylphenol	N.D.	0.5	ug/l	76	72*	73-115	6	30
4-Chloroaniline	N.D.	2.	ug/l	73	62	44-114	16	30
bis(2-Chloroethoxy)methane	N.D.	0.5	ug/l	81	61*	77-115	28	30
bis(2-Chloroethyl) ether	N.D.	0.5	ug/l	81	59*	78-112	31*	30
2-Chloronaphthalene	N.D.	0.4	ug/l	78	56*	69-112	32*	30
2-Chlorophenol	N.D.	0.5	ug/l	72	65*	70-111	10	30
4-Chlorophenyl-phenylether	N.D.	0.5	ug/l	79	54*	76-113	37*	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	ug/l	92	66	56-128	32*	30
Chrysene	N.D.	0.1	ug/l	88	62*	81-120	34*	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	88	60*	72-127	38*	30
Dibenzofuran	N.D.	0.5	ug/l	81	57*	81-110	35*	30
1,2-Dichlorobenzene	N.D.	0.5	ug/l	73	51*	65-107	36*	30
1,3-Dichlorobenzene	N.D.	0.5	ug/l	69	47*	58-103	38*	30
1,4-Dichlorobenzene	N.D.	0.5	ug/l	71	49*	56-106	37*	30
3,3'-Dichlorobenzidine	N.D.	2.	ug/l	67	62	39-111	8	30
2,4-Dichlorophenol	N.D.	0.5	ug/l	75	72*	74-114	5	30
Diethylphthalate	N.D.	2.	ug/l	50*	42*	70-118	18	30
2,4-Dimethylphenol	N.D.	0.5	ug/l	78	69*	75-110	13	30
Dimethylphthalate	N.D.	2.	ug/l	19*	16*	43-128	20	30
4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l	72	68	53-134	5	30
2,4-Dinitrophenol	N.D.	10.	ug/l	63	58	31-129	8	30
2,4-Dinitrotoluene	N.D.	1.	ug/l	79	66*	77-124	17	30
2,6-Dinitrotoluene	N.D.	0.5	ug/l	82	69*	80-119	17	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1572462

Reported: 07/06/2015 15:50

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
bis(2-Ethylhexyl) phthalate	N.D.	2.	ug/l	90	267*	72-122	99*	30
Fluoranthene	N.D.	0.1	ug/l	82	57*	76-117	36*	30
Fluorene	N.D.	0.1	ug/l	83	58*	80-117	36*	30
Hexachlorobenzene	N.D.	0.1	ug/l	79	53*	73-118	39*	30
Hexachlorobutadiene	N.D.	0.5	ug/l	64	41*	42-110	43*	30
Hexachlorocyclopentadiene	N.D.	5.	ug/l	67	38	10-119	56*	30
Hexachloroethane	N.D.	1.	ug/l	62	40*	43-108	44*	30
Indeno(1,2,3-cd) pyrene	N.D.	0.1	ug/l	87	59*	70-121	38*	30
Isophorone	N.D.	0.5	ug/l	95	71*	81-124	30	30
2-Methylnaphthalene	N.D.	0.1	ug/l	75	52*	69-103	36*	30
2-Methylphenol	N.D.	0.5	ug/l	75	65*	66-112	15	30
4-Methylphenol	N.D.	0.5	ug/l	72	64	56-109	12	30
Naphthalene	N.D.	0.1	ug/l	78	56*	75-108	33*	30
2-Nitroaniline	N.D.	0.5	ug/l	77	64*	71-121	18	30
3-Nitroaniline	N.D.	0.5	ug/l	72	63	58-111	14	30
4-Nitroaniline	N.D.	0.5	ug/l	66	60*	66-110	10	30
Nitrobenzene	N.D.	0.5	ug/l	94	68*	77-119	32*	30
2-Nitrophenol	N.D.	0.5	ug/l	77	72	71-118	7	30
4-Nitrophenol	N.D.	10.	ug/l	39	35	20-89	9	30
N-Nitroso-di-n-propylamine	N.D.	0.5	ug/l	86	64*	71-117	30	30
N-Nitrosodiphenylamine	N.D.	0.5	ug/l	140*	110	80-115	24	30
Di-n-octylphthalate	N.D.	2.	ug/l	85	58*	72-127	38*	30
Pentachlorophenol	N.D.	1.	ug/l	56	54	50-121	4	30
Phenanthrene	N.D.	0.1	ug/l	84	57*	81-114	38*	30
Phenol	N.D.	0.5	ug/l	47	44	25-80	6	30
Pyrene	N.D.	0.1	ug/l	80	57*	76-111	34*	30
1,2,4-Trichlorobenzene	N.D.	0.5	ug/l	77	52*	64-107	39*	30
2,4,5-Trichlorophenol	N.D.	0.5	ug/l	72*	71*	76-116	2	30
2,4,6-Trichlorophenol	N.D.	0.5	ug/l	79	76	75-117	3	30

Batch number: 151805713002

Sample number(s): 7945292
N.D. 0.00005 mg/l
0

97 80-120

Batch number: 151811848001

Sample number(s): 7945292
0.0857 J 0.0674 mg/l 101
N.D. 0.0051 mg/l 101
N.D. 0.0072 mg/l 109
N.D. 0.00033 mg/l 110
N.D. 0.00067 mg/l 110
N.D. 0.00033 mg/l 107
0.134 J 0.0334 mg/l 105
N.D. 0.0013 mg/l 100
N.D. 0.0010 mg/l 108
N.D. 0.0334 mg/l 99
N.D. 0.0167 mg/l 104
N.D. 0.00083 mg/l 109
N.D. 0.0016 mg/l 109
N.D. 0.133 mg/l 103
N.D. 0.167 mg/l 103
N.D. 0.0019 mg/l 104
N.D. 0.0020 mg/l 106

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Batch number: 151816050001A

Sample number(s): 7945292
0.00091 J 0.00050 mg/l 104
0.00013 J 0.00008 mg/l 102

80-120
80-120

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 15:50

Group Number: 1572462

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Silver	N.D.	0.00013	mg/l	102		80-120		
Thallium	N.D.	0.00015	mg/l	105		80-120		
Batch number: 151816050001B		Sample number(s): 7945292						
Selenium	N.D.	0.00050	mg/l	104		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151805713002		Sample number(s): 7945292		UNSPK:	P942748	BKG:	P942748		
Mercury	95	94	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 151811848001		Sample number(s): 7945292		UNSPK:	P943334	BKG:	P943334		
Aluminum	106	106	75-125	0	20	N.D.	0.103 J	200* (1)	20
Antimony	104	102	75-125	1	20	N.D.	N.D.	0 (1)	20
Arsenic	114	111	75-125	2	20	N.D.	N.D.	0 (1)	20
Barium	110	108	75-125	2	20	0.0960	0.103	7	20
Beryllium	112	110	75-125	2	20	N.D.	N.D.	0 (1)	20
Cadmium	108	106	75-125	1	20	N.D.	N.D.	0 (1)	20
Calcium	173 (2)	126 (2)	75-125	2	20	80.4	87.6	9	20
Chromium	100	98	75-125	2	20	0.0015 J	N.D.	200* (1)	20
Cobalt	110	108	75-125	2	20	N.D.	N.D.	0 (1)	20
Iron	104	103	75-125	1	20	0.861	0.946	9 (1)	20
Magnesium	115	107	75-125	2	20	5.35	5.83	9	20
Manganese	110	107	75-125	2	20	0.0819	0.0888	8	20
Nickel	109	108	75-125	1	20	N.D.	0.0016 J	200* (1)	20
Potassium	109	108	75-125	1	20	2.75	2.98	8	20
Sodium	126 (2)	110 (2)	75-125	2	20	74.8	81.4	8	20
Vanadium	107	106	75-125	2	20	N.D.	N.D.	0 (1)	20
Zinc	108	107	75-125	0	20	0.0032 J	0.0032 J	2 (1)	20
Batch number: 151816050001A		Sample number(s): 7945292		UNSPK:	P944111	BKG:	P944111		
Copper	103	100	75-125	3	20	N.D.	N.D.	0 (1)	20
Lead	104	104	75-125	1	20	0.00033 J	0.00036 J	10 (1)	20
Silver	102	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Thallium	107	98	75-125	9	20	N.D.	N.D.	0 (1)	20
Batch number: 151816050001B		Sample number(s): 7945292		UNSPK:	P944111	BKG:	P944111		
Selenium	92	108	75-125	16	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 15:50

Group Number: 1572462

Surrogate Quality Control

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: T151861AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7945292	106	102	100	96
7945293	106	101	99	95
Blank	93	98	104	101
LCS	94	98	105	108
LCSD	93	100	107	108
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TCL SW846 8270D Water
Batch number: 15178WAH026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7945292	45	65	86	92	80	74
Blank	39	58	78	89	80	69
LCS	46	66	80	104	89	79
LCSD	38	55	81	75	65	60
Limits:	10-82	10-107	23-145	60-123	61-112	35-144

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1572402 Sample # 7945292-93
Instructions on reverse side correspond with circled numbers.

380539

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only	
Client: <u>Geosyntec Consultants</u>		Acct. #:		Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Other: <u>Equipment Blank</u>	Total # of Containers	Preservation Codes				FSC: <u>173480</u>			
Project Name/#: <u>CHR 8417</u>		PWSID #:				VOCS 8260B SVOCs 8270J TAL Metals 11g				SCR#: <u>173480</u>			
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:								Preservation Codes			
Sampler: <u>Various</u>		Quote #:								H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other			
Name of state where samples were collected: <u>IN</u>				3						6			
2 Sample Identification		Collected		Grab						Composite		Remarks	
		Date	Time										
<u>RB-017</u>		<u>25 Jun 15</u>	<u>1630</u>	<u>X</u>									
<u>TB-062515-RB</u>		<u>25 Jun 15</u>	<u>1650</u>	<u>X</u>									
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time	9	
Standard				<u>[Signature]</u>		<u>6/17/15</u>	<u>15:10</u>	<u>[Signature]</u>		<u>25 Jun 15</u>	<u>1600</u>		
Rush <u>5 day TAT</u>				<u>[Signature]</u>		<u>25 Jun 15</u>	<u>1700</u>	<u>[Signature]</u>		<u>6/25/15</u>	<u>17:03</u>		
(Rush TAT is subject to laboratory approval and surcharge.)				<u>[Signature]</u>		<u>6/25/15</u>	<u>17:11</u>	<u>[Signature]</u>					
Date results are needed: _____				<u>[Signature]</u>				<u>[Signature]</u>					
E-mail address: <u>d.kulczykcki@geosyntec.com</u>				<u>[Signature]</u>				<u>[Signature]</u>					
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by		Date	Time		
Type I (EPA Level 3 Equivalent/non-CLP)				<u>[Signature]</u>		<u>6/26/15</u>	<u>0900</u>	<u>[Signature]</u>					
Type VI (Raw Data Only) <u>Type IV CLP SW</u>													
Type III (Reduced non-CLP) TX TRRP-13													
NYSDEC Category A or B MA MCP CT RCP													
				EDD Required? Yes <u>Yes</u> No		Relinquished by Commercial Carrier:		UPS _____ FedEx _____ Other _____					
				If yes, format: _____		Site-Specific QC (MS/MSD/Dup)? Yes <u>No</u>		Temperature upon receipt <u>0.4</u> °C					
				(If yes, indicate QC sample and submit triplicate sample volume.)									

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0315

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 06, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/26/2015

Group Number: 1572469

SDG: NWP26

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

VP-GTW-HWMU2-SB28 Grab Groundwater
VP-GTW-AOC13-SB13 Grab Groundwater
VP-GTW-FOUND-SB17 Grab Groundwater
PLA-GTW-ROAD-SB10 Grab Groundwater
PLA-GTW-LT-SB06 Grab Groundwater
TB-06252015-GTW Water

Lancaster Labs (LL)

7945322
7945323
7945324
7945325
7945326
7945327

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.


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Geosyntec
Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: VP-GTW-HWMU2-SB28 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945322
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 09:30 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

VU228 SDG#: NWP26-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	0.6 J	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	7	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-HWMU2-SB28 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945322
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 09:30 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

VU228 SDG#: NWP26-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	1	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 19:20	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 19:20	Angela D Sneeringer	1
13624	18 PAHs	SW-846 8270D	1	15178WAH026	07/03/2015 19:20	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15178WAH026	06/27/2015 21:10	Karen L Beyer	1

Sample Description: VP-GTW-AOC13-SB13 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945323
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 11:00 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

V1313 SDG#: NWP26-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	28	6	1
10335	Benzene	71-43-2	4	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	4 J	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	1 J	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5 J	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	4	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	23	1	1
10335	p-Isopropyltoluene	99-87-6	1 J	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	9	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-AOC13-SB13 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945323
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 11:00 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

V1313 SDG#: NWP26-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	38	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	0.7 J	0.5	1
10335	m+p-Xylene	179601-23-1	240	0.5	1
10335	o-Xylene	95-47-6	1	0.5	1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.2 J	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	0.1 J	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	0.2 J	0.1	1
13624	Fluorene	86-73-7	0.2 J	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	5	0.1	1
13624	Phenanthrene	85-01-8	0.4 J	0.1	1
13624	Pyrene	129-00-0	0.2 J	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 19:43	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 19:43	Angela D Sneeringer	1
13624	18 PAHs	SW-846 8270D	1	15178WAH026	07/03/2015 19:49	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15178WAH026	06/27/2015 21:10	Karen L Beyer	1

Sample Description: VP-GTW-FOUND-SB17 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945324
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 13:15 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

VFD17 SDG#: NWP26-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	1 J	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	4	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	3 J	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	3 J	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	1	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: VP-GTW-FOUND-SB17 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945324
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 13:15 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

VFD17 SDG#: NWP26-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	6	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	2 J	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	13	0.5	1
10335	o-Xylene	95-47-6	5	0.5	1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Acenaphthene	83-32-9	1	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	0.2 J	0.1	1
13624	Benzo(a)anthracene	56-55-3	0.1 J	0.1	1
13624	Benzo(a)pyrene	50-32-8	0.2 J	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	0.2 J	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	0.1 J	0.1	1
13624	Chrysene	218-01-9	0.2 J	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	0.3 J	0.1	1
13624	Fluorene	86-73-7	0.6	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 J	0.1	1
13624	Naphthalene	91-20-3	2	0.1	1
13624	Phenanthrene	85-01-8	0.7	0.1	1
13624	Pyrene	129-00-0	0.3 J	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 20:07	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 20:07	Angela D Sneeringer	1
13624	18 PAHs	SW-846 8270D	1	15178WAH026	07/03/2015 20:19	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15178WAH026	06/27/2015 21:10	Karen L Beyer	1

Sample Description: PLA-GTW-ROAD-SB10 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945325
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 14:45 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

PRD10 SDG#: NWP26-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: PLA-GTW-ROAD-SB10 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945325
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 14:45 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

PRD10 SDG#: NWP26-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Pyrene	129-00-0	N.D.	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 20:30	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 20:30	Angela D Sneeringer	1
13624	18 PAHs	SW-846 8270D	1	15178WAH026	07/03/2015 20:48	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15178WAH026	06/27/2015 21:10	Karen L Beyer	1

Sample Description: PLA-GTW-LT-SB06 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945326
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:05 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

PLT06 SDG#: NWP26-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	28	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	2	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: PLA-GTW-LT-SB06 Grab Groundwater
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945326
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 16:05 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

PLT06 SDG#: NWP26-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	7	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	12	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.3 J	0.1	1
13624	Acenaphthylene	208-96-8	0.1 J	0.1	1
13624	Anthracene	120-12-7	0.2 J	0.1	1
13624	Benzo(a)anthracene	56-55-3	0.1 J	0.1	1
13624	Benzo(a)pyrene	50-32-8	0.1 J	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	0.2 J	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Chrysene	218-01-9	0.2 J	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1 J	0.1	1
13624	Fluoranthene	206-44-0	1	0.1	1
13624	Fluorene	86-73-7	0.7	0.1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 J	0.1	1
13624	Naphthalene	91-20-3	0.2 J	0.1	1
13624	Phenanthrene	85-01-8	1	0.1	1
13624	Pyrene	129-00-0	0.8	0.1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. Similar results were obtained in both trials.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 20:54	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 20:54	Angela D Sneeringer	1
13624	18 PAHs	SW-846 8270D	1	15183WAB026	07/04/2015 17:28	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	2	15183WAB026	07/02/2015 15:00	Kailah L Ortiz	1

Sample Description: TB-06252015-GTW Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945327
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 15:30 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

TB25G SDG#: NWP26-06TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-06252015-GTW Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7945327
LL Group # 1572469
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 15:30 by AO

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/26/2015 09:00

Reported: 07/06/2015 15:52

TB25G SDG#: NWP26-06TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	T151861AA	07/05/2015 18:56	Angela D Sneeringer	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151861AA	07/05/2015 18:56	Angela D Sneeringer	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 15:52

Group Number: 1572469

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T151861AA	Sample number(s): 7945322-7945327							
Acetone	N.D.	6.	ug/l	88	92	55-129	4	30
Benzene	N.D.	0.5	ug/l	94	92	78-120	2	30
Bromobenzene	N.D.	1.	ug/l	100	95	80-120	5	30
Bromochloromethane	N.D.	1.	ug/l	100	95	80-120	4	30
Bromodichloromethane	N.D.	0.5	ug/l	92	91	73-120	1	30
Bromoform	N.D.	0.5	ug/l	94	96	52-123	2	30
Bromomethane	N.D.	0.5	ug/l	93	87	53-130	6	30
2-Butanone	N.D.	3.	ug/l	93	94	54-133	1	30
n-Butylbenzene	N.D.	1.	ug/l	105	97	68-120	7	30
sec-Butylbenzene	N.D.	1.	ug/l	103	97	75-120	6	30
tert-Butylbenzene	N.D.	1.	ug/l	117	101	80-120	15	30
Carbon Disulfide	N.D.	1.	ug/l	82	84	58-126	3	30
Carbon Tetrachloride	N.D.	0.5	ug/l	98	98	74-130	0	30
Chlorobenzene	N.D.	0.5	ug/l	98	98	80-120	0	30
Chloroethane	N.D.	0.5	ug/l	92	92	56-120	0	30
Chloroform	N.D.	0.5	ug/l	94	93	80-120	1	30
Chloromethane	N.D.	0.5	ug/l	89	88	63-120	2	30
2-Chlorotoluene	N.D.	1.	ug/l	102	100	80-120	2	30
4-Chlorotoluene	N.D.	1.	ug/l	102	100	80-120	2	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	95	90	56-120	6	30
Dibromochloromethane	N.D.	0.5	ug/l	100	99	72-120	0	30
1,2-Dibromoethane	N.D.	0.5	ug/l	102	104	80-120	2	30
Dibromomethane	N.D.	0.5	ug/l	100	99	80-120	1	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	85	85	55-127	1	30
1,1-Dichloroethane	N.D.	0.5	ug/l	104	105	80-120	1	30
1,2-Dichloroethane	N.D.	0.5	ug/l	102	104	72-127	2	30
1,1-Dichloroethene	N.D.	0.5	ug/l	102	101	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	103	103	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	104	105	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	ug/l	108	110	80-120	1	30
1,3-Dichloropropane	N.D.	0.5	ug/l	97	96	80-120	1	30
2,2-Dichloropropane	N.D.	0.5	ug/l	95	96	63-131	2	30
1,1-Dichloropropene	N.D.	1.	ug/l	92	93	80-126	1	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	94	95	80-120	1	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	103	101	76-120	1	30
Ethylbenzene	N.D.	0.5	ug/l	111	112	80-120	1	30
2-Hexanone	N.D.	3.	ug/l	103	103	50-131	0	30
Isopropylbenzene	N.D.	1.	ug/l	102	103	80-120	1	30
p-Isopropyltoluene	N.D.	1.	ug/l	98	94	76-120	5	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	93	94	75-120	1	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	94	95	51-124	0	30
Methylene Chloride	N.D.	2.	ug/l	90	92	80-120	1	30
n-Propylbenzene	N.D.	1.	ug/l	111	107	80-120	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 15:52

Group Number: 1572469

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	102	104	80-120	2	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	104	106	80-120	2	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	97	91	70-120	6	30
Tetrachloroethene	N.D.	0.5	ug/l	104	107	80-120	3	30
Toluene	N.D.	0.5	ug/l	108	108	80-120	0	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	100	92	69-120	9	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	94	92	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	104	103	80-120	1	30
Trichloroethene	N.D.	0.5	ug/l	102	104	80-120	1	30
Trichlorofluoromethane	N.D.	0.5	ug/l	92	93	58-135	2	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	98	96	76-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	104	101	80-120	3	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	104	98	80-120	6	30
Vinyl Chloride	N.D.	0.5	ug/l	102	100	69-120	2	30
m+p-Xylene	N.D.	0.5	ug/l	105	105	80-120	0	30
o-Xylene	N.D.	0.5	ug/l	102	101	80-120	1	30

Batch number: 15178WAH026

Sample number(s): 7945322-7945325

Acenaphthene	N.D.	0.1	ug/l	79*	55*	80-112	36*	30
Acenaphthylene	N.D.	0.1	ug/l	87	63*	78-125	33*	30
Anthracene	N.D.	0.1	ug/l	85	58*	82-116	38*	30
Benzo(a)anthracene	N.D.	0.1	ug/l	84	60*	76-122	33*	30
Benzo(a)pyrene	N.D.	0.1	ug/l	83	56*	73-120	39*	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	83	57*	75-123	37*	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	90	62*	70-126	38*	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	84	56*	74-119	40*	30
Chrysene	N.D.	0.1	ug/l	88	62*	81-120	34*	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	88	60*	72-127	38*	30
Fluoranthene	N.D.	0.1	ug/l	82	57*	76-117	36*	30
Fluorene	N.D.	0.1	ug/l	83	58*	80-117	36*	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	87	59*	70-121	38*	30
Naphthalene	N.D.	0.1	ug/l	78	56*	75-108	33*	30
Phenanthrene	N.D.	0.1	ug/l	84	57*	81-114	38*	30
Pyrene	N.D.	0.1	ug/l	80	57*	76-111	34*	30

Batch number: 15183WAB026

Sample number(s): 7945326

Acenaphthene	N.D.	0.1	ug/l	80	80	80-112	0	30
Acenaphthylene	N.D.	0.1	ug/l	82	82	78-125	1	30
Anthracene	N.D.	0.1	ug/l	82	81*	82-116	2	30
Benzo(a)anthracene	N.D.	0.1	ug/l	81	80	76-122	0	30
Benzo(a)pyrene	N.D.	0.1	ug/l	79	80	73-120	0	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	81	81	75-123	0	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	84	84	70-126	0	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	83	83	74-119	0	30
Chrysene	N.D.	0.1	ug/l	81	82	81-120	2	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	82	82	72-127	0	30
Fluoranthene	N.D.	0.1	ug/l	80	79	76-117	1	30
Fluorene	N.D.	0.1	ug/l	86	84	80-117	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	ug/l	81	82	70-121	0	30
Naphthalene	N.D.	0.1	ug/l	76	76	75-108	0	30
Phenanthrene	N.D.	0.1	ug/l	81	79*	81-114	2	30
Pyrene	N.D.	0.1	ug/l	77	78	76-111	1	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/06/2015 15:52

Group Number: 1572469

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: T151861AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7945322	106	100	100	95
7945323	104	99	97	101
7945324	105	99	99	98
7945325	105	100	101	98
7945326	104	98	98	93
7945327	107	100	100	95
Blank	93	98	104	101
LCS	94	98	105	108
LCSD	93	100	107	108
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 18 PAHs
Batch number: 15178WAH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7945322	98	88	73
7945323	98	86	70
7945324	98	87	76
7945325	98	86	73
Blank	89	80	69
LCS	104	89	79
LCSD	75	65	60
Limits:	60-123	61-112	35-144

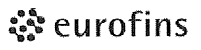
Analysis Name: 18 PAHs
Batch number: 15183WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7945326	90	79	70
Blank	92	82	74
LCS	96	84	73
LCSD	95	85	73
Limits:	60-123	61-112	35-144

*- Outside of specification

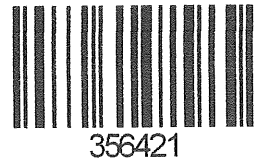
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
 Acct. # 20448 Group # 1572469 Sample # 7945300-27
 Instructions on reverse side correspond with circled numbers.



1 Client Information				4 Matrix				5 Analysis Requested										For Lab Use Only																																																																																								
Client: <u>GEOSYNTEC CONSULTANTS</u>		Acct. #:		Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Other: <u>TEP BLANK</u>		Preservation Codes VOCs 8260B SVOCs 8270D										FSC: _____																																																																																										
Project Name/#: <u>CHR8417</u>		PWSID #:				Total # of Containers 5 5 5 5 5 2		<table border="1" style="width:100%; height:100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																																																																																	SCR#: _____	
Project Manager: <u>DAVID KULCZYCKI</u>		P.O. #:		Soil <input type="checkbox"/>		VOCs 8260B SVOCs 8270D										Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other																																																																																										
Sampler: <u>ALYSSA OFFUTT</u>		Quote #:														Composite <input type="checkbox"/>		VOCs 8260B SVOCs 8270D										6 Remarks																																																																														
Name of state where samples were collected: <u>IN</u>																														Grab <input type="checkbox"/> Composite <input type="checkbox"/>		VOCs 8260B SVOCs 8270D										6 Remarks																																																																
2 Sample Identification		Collected		Soil <input type="checkbox"/>		VOCs 8260B SVOCs 8270D										6 Remarks																																																																																										
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VP-GTW-#WNUZ-SB28		6/25/15	9:30	X		X X										6 Remarks																																																																																										
VP-GTW-AOC13-SB13		6/25/15	11:00	X		X X																																																																																																				
VP-GTW-FOUND-SB17		6/25/15	13:15	X		X X																																																																																																				
PLA-GTW-ROAD-SB10		6/25/15	14:45	X		X X																																																																																																				
PLA-GTW-LT-SB06		6/25/15	16:05	X		X X																																																																																																				
TB-06252015-GTW		6/25/15	15:30	X		X																																																																																																				
7 Turnaround Time (TAT) Requested (please circle) Standard <u>Rush</u> (Rush TAT is subject to laboratory approval and surcharge.) <u>5 DAY</u> Date results are needed: _____ E-mail address: _____				Relinquished by <u>[Signature]</u>		Date	Time	Received by <u>[Signature]</u>		Date	Time	9 Date Time																																																																																														
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8 Data Package Options (circle if required) Type I (Validation/non-CLP) Type VI (Raw Data Only) Type III (Reduced non-CLP) TX TRRP-13 Type IV (CLP SOW) MA MCP CT RCP				EDD Required? Yes No If yes, format: _____				Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____																																																																																																		
				Site-Specific QC (MS/MSD/Dup)? Yes No (If yes, indicate QC sample and submit triplicate sample volume.)				Temperature upon receipt <u>0-4</u> °C																																																																																																		

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 02, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/26/2015

Group Number: 1572470

SDG: NWP27

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

PLA-WP-001 Composite Soil

PLA-WP-002 Composite Soil

PLA-WP-003 Composite Soil

TB-062515-S1 Water

Lancaster Labs (LL)

7945328

7945329

7945330

7945331

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Geosyntec

COPY TO

ELECTRONIC Geosyntec

COPY TO

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: PLA-WP-001 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945328
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 13:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP001 SDG#: NWP27-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.74
10237	Benzene	71-43-2	N.D.	0.4	0.74
10237	Bromobenzene	108-86-1	N.D.	0.8	0.74
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.74
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.74
10237	Bromoform	75-25-2	N.D.	0.8	0.74
10237	Bromomethane	74-83-9	N.D.	2	0.74
10237	2-Butanone	78-93-3	N.D.	3	0.74
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.74
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.74
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.74
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.74
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.74
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.74
10237	Chloroethane	75-00-3	N.D.	2	0.74
10237	Chloroform	67-66-3	N.D.	0.8	0.74
10237	Chloromethane	74-87-3	N.D.	2	0.74
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.74
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.74
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.74
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.74
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.74
10237	Dibromomethane	74-95-3	N.D.	0.8	0.74
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.74
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.74
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.74
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.74
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.74
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.74
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.74
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.74
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.74
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.74
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.74
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.74
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.74
10237	2-Hexanone	591-78-6	N.D.	2	0.74
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.74
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.74
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.74
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.74
10237	Methylene Chloride	75-09-2	N.D.	2	0.74
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.74
10237	Styrene	100-42-5	N.D.	0.8	0.74
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.74
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.74
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.74
10237	Toluene	108-88-3	N.D.	0.8	0.74
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.74
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.74

Sample Description: PLA-WP-001 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945328
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 13:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP001 SDG#: NWP27-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.74
10237	Trichloroethene	79-01-6	N.D.	0.8	0.74
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.74
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.74
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.74
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.74
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.74
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.74
10237	o-Xylene	95-47-6	N.D.	0.8	0.74
GC/MS Semivolatiles SW-846 8270D			ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	10 J	4	1
10726	Acenaphthylene	208-96-8	44	4	1
10726	Anthracene	120-12-7	57	4	1
10726	Benzidine	92-87-5	N.D.	770	1
10726	Benzo(a)anthracene	56-55-3	180	4	1
10726	Benzo(a)pyrene	50-32-8	220	4	1
10726	Benzo(b)fluoranthene	205-99-2	270	4	1
10726	Benzo(g,h,i)perylene	191-24-2	180	4	1
10726	Benzo(k)fluoranthene	207-08-9	110	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	73	1
10726	Di-n-butylphthalate	84-74-2	N.D.	73	1
10726	Carbazole	86-74-8	20 J	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	36	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	190	4	1
10726	Dibenz(a,h)anthracene	53-70-3	36	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	73	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	73	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-WP-001 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945328
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 13:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP001 SDG#: NWP27-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	330	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	73	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	73	1
10726	Fluoranthene	206-44-0	280	4	1
10726	Fluorene	86-73-7	14 J	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	36	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	150	4	1
10726	Isophorone	78-59-1	N.D.	18	1
10726	2-Methylnaphthalene	91-57-6	16 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	18 J	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	73	1
10726	4-Nitroaniline	100-01-6	N.D.	73	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	73	1
10726	Pentachlorophenol	87-86-5	N.D.	36	1
10726	Phenanthrene	85-01-8	180	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	290	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,430	4.99	1
06944	Antimony	7440-36-0	0.827 J	0.363	1
06935	Arsenic	7440-38-2	5.88	0.704	1
06946	Barium	7440-39-3	51.4	0.0363	1
06947	Beryllium	7440-41-7	0.525 J	0.0737	1

Sample Description: PLA-WP-001 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945328
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 13:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP001 SDG#: NWP27-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.376 J	0.0363	1
01650	Calcium	7440-70-2	11,200	4.17	1
06951	Chromium	7440-47-3	10.5	0.121	1
06952	Cobalt	7440-48-4	5.16	0.106	1
06953	Copper	7440-50-8	18.5	0.363	1
01654	Iron	7439-89-6	12,000	3.67	1
06955	Lead	7439-92-1	68.2	0.550	1
01657	Magnesium	7439-95-4	5,290	1.84	1
06958	Manganese	7439-96-5	259	0.0913	1
06961	Nickel	7440-02-0	12.0	0.165	1
01662	Potassium	7440-09-7	1,430	14.3	1
06936	Selenium	7782-49-2	1.30 J	0.484	1
06966	Silver	7440-22-4	0.359 J	0.209	1
01667	Sodium	7440-23-5	72.7 J	18.4	1
06925	Thallium	7440-28-0	1.07 J	0.880	1
06971	Vanadium	7440-62-2	16.6	0.100	1
06972	Zinc	7440-66-6	111	0.286	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0585 J	0.0107	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	9.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151821AA	07/01/2015 15:23	Sarah A Guill	0.74
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517738104	06/26/2015 16:06	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517738104	06/26/2015 16:06	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517738104	06/25/2015 13:00	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15178SLA026	06/29/2015 11:19	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15178SLA026	06/28/2015 22:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151805708005	07/01/2015 10:07	Eric L Eby	1
06944	Antimony	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1

Sample Description: PLA-WP-001 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945328
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 13:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP001 SDG#: NWP27-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151805708005	07/01/2015 10:07	Eric L Eby	1
06951	Chromium	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151805708005	07/01/2015 10:07	Eric L Eby	1
06955	Lead	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151805708005	07/01/2015 10:07	Eric L Eby	1
06958	Manganese	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151805708005	07/01/2015 10:07	Eric L Eby	1
06936	Selenium	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151805708005	07/01/2015 10:07	Eric L Eby	1
06925	Thallium	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151805708005	06/30/2015 17:30	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151805711001	07/01/2015 17:38	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151805708005	06/30/2015 08:45	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151805711001	06/30/2015 13:23	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15182820005A	07/01/2015 20:21	Scott W Freisher	1

Sample Description: PLA-WP-002 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945329
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 11:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP002 SDG#: NWP27-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	6	0.72
10237	Benzene	71-43-2	N.D.	0.4	0.72
10237	Bromobenzene	108-86-1	N.D.	0.8	0.72
10237	Bromochloromethane	74-97-5	N.D.	0.8	0.72
10237	Bromodichloromethane	75-27-4	N.D.	0.8	0.72
10237	Bromoform	75-25-2	N.D.	0.8	0.72
10237	Bromomethane	74-83-9	N.D.	2	0.72
10237	2-Butanone	78-93-3	N.D.	3	0.72
10237	n-Butylbenzene	104-51-8	N.D.	0.8	0.72
10237	sec-Butylbenzene	135-98-8	N.D.	0.8	0.72
10237	tert-Butylbenzene	98-06-6	N.D.	0.8	0.72
10237	Carbon Disulfide	75-15-0	N.D.	0.8	0.72
10237	Carbon Tetrachloride	56-23-5	N.D.	0.8	0.72
10237	Chlorobenzene	108-90-7	N.D.	0.8	0.72
10237	Chloroethane	75-00-3	N.D.	2	0.72
10237	Chloroform	67-66-3	N.D.	0.8	0.72
10237	Chloromethane	74-87-3	N.D.	2	0.72
10237	2-Chlorotoluene	95-49-8	N.D.	0.8	0.72
10237	4-Chlorotoluene	106-43-4	N.D.	0.8	0.72
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.72
10237	Dibromochloromethane	124-48-1	N.D.	0.8	0.72
10237	1,2-Dibromoethane	106-93-4	N.D.	0.8	0.72
10237	Dibromomethane	74-95-3	N.D.	0.8	0.72
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.72
10237	1,1-Dichloroethane	75-34-3	N.D.	0.8	0.72
10237	1,2-Dichloroethane	107-06-2	N.D.	0.8	0.72
10237	1,1-Dichloroethene	75-35-4	N.D.	0.8	0.72
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	0.72
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	0.72
10237	1,2-Dichloropropane	78-87-5	N.D.	0.8	0.72
10237	1,3-Dichloropropane	142-28-9	N.D.	0.8	0.72
10237	2,2-Dichloropropane	594-20-7	N.D.	0.8	0.72
10237	1,1-Dichloropropene	563-58-6	N.D.	0.8	0.72
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.8	0.72
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.8	0.72
10237	Ethylbenzene	100-41-4	N.D.	0.8	0.72
10237	2-Hexanone	591-78-6	N.D.	2	0.72
10237	Isopropylbenzene	98-82-8	N.D.	0.8	0.72
10237	p-Isopropyltoluene	99-87-6	N.D.	0.8	0.72
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.4	0.72
10237	4-Methyl-2-pentanone	108-10-1	N.D.	2	0.72
10237	Methylene Chloride	75-09-2	N.D.	2	0.72
10237	n-Propylbenzene	103-65-1	N.D.	0.8	0.72
10237	Styrene	100-42-5	N.D.	0.8	0.72
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.8	0.72
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.8	0.72
10237	Tetrachloroethene	127-18-4	N.D.	0.8	0.72
10237	Toluene	108-88-3	N.D.	0.8	0.72
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.8	0.72
10237	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	0.72

Sample Description: PLA-WP-002 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945329
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 11:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP002 SDG#: NWP27-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	0.72
10237	Trichloroethene	79-01-6	N.D.	0.8	0.72
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.72
10237	1,2,3-Trichloropropane	96-18-4	N.D.	0.8	0.72
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.8	0.72
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.8	0.72
10237	Vinyl Chloride	75-01-4	N.D.	0.8	0.72
10237	m+p-Xylene	179601-23-1	N.D.	0.8	0.72
10237	o-Xylene	95-47-6	N.D.	0.8	0.72
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	Acenaphthene	83-32-9	16 J	4	1
10726	Acenaphthylene	208-96-8	14 J	4	1
10726	Anthracene	120-12-7	65	4	1
10726	Benzidine	92-87-5	N.D.	760	1
10726	Benzo(a)anthracene	56-55-3	260	4	1
10726	Benzo(a)pyrene	50-32-8	310	4	1
10726	Benzo(b)fluoranthene	205-99-2	360	4	1
10726	Benzo(g,h,i)perylene	191-24-2	210	4	1
10726	Benzo(k)fluoranthene	207-08-9	140	4	1
10726	Benzoic acid	65-85-0	N.D.	180	1
10726	Benzyl alcohol	100-51-6	N.D.	180	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	18	1
10726	Butylbenzylphthalate	85-68-7	N.D.	72	1
10726	Di-n-butylphthalate	84-74-2	N.D.	72	1
10726	Carbazole	86-74-8	24 J	18	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	18	1
10726	4-Chloroaniline	106-47-8	N.D.	36	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	18	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	18	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	18	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	18	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	18	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	280	4	1
10726	Dibenz(a,h)anthracene	53-70-3	54	4	1
10726	Dibenzofuran	132-64-9	N.D.	18	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	18	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	18	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	18	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	18	1
10726	Diethylphthalate	84-66-2	N.D.	72	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	18	1
10726	Dimethylphthalate	131-11-3	N.D.	72	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	180	1

Sample Description: PLA-WP-002 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945329
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 11:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP002 SDG#: NWP27-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	320	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	72	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	18	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	72	1
10726	Fluoranthene	206-44-0	480	4	1
10726	Fluorene	86-73-7	16 J	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	18	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	180	1
10726	Hexachloroethane	67-72-1	N.D.	36	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	180	4	1
10726	Isophorone	78-59-1	N.D.	18	1
10726	2-Methylnaphthalene	91-57-6	12 J	4	1
10726	2-Methylphenol	95-48-7	N.D.	18	1
10726	4-Methylphenol	106-44-5	N.D.	18	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	8 J	4	1
10726	2-Nitroaniline	88-74-4	N.D.	18	1
10726	3-Nitroaniline	99-09-2	N.D.	72	1
10726	4-Nitroaniline	100-01-6	N.D.	72	1
10726	Nitrobenzene	98-95-3	N.D.	18	1
10726	2-Nitrophenol	88-75-5	N.D.	18	1
10726	4-Nitrophenol	100-02-7	N.D.	180	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	18	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	18	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	72	1
10726	Pentachlorophenol	87-86-5	N.D.	36	1
10726	Phenanthrene	85-01-8	260	4	1
10726	Phenol	108-95-2	N.D.	18	1
10726	Pyrene	129-00-0	480	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	18	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	18	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	18	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	9,180	4.73	1
06944	Antimony	7440-36-0	0.606 J	0.343	1
06935	Arsenic	7440-38-2	7.66	0.666	1
06946	Barium	7440-39-3	54.8	0.0343	1
06947	Beryllium	7440-41-7	0.480 J	0.0697	1

Sample Description: PLA-WP-002 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945329
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 11:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP002 SDG#: NWP27-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.358 J	0.0343	1
01650	Calcium	7440-70-2	4,900	3.94	1
06951	Chromium	7440-47-3	13.4	0.114	1
06952	Cobalt	7440-48-4	7.18	0.0999	1
06953	Copper	7440-50-8	17.9	0.343	1
01654	Iron	7439-89-6	14,800	3.48	1
06955	Lead	7439-92-1	23.8	0.520	1
01657	Magnesium	7439-95-4	3,420	1.74	1
06958	Manganese	7439-96-5	344	0.0864	1
06961	Nickel	7440-02-0	15.3	0.156	1
01662	Potassium	7440-09-7	1,450	13.5	1
06936	Selenium	7782-49-2	1.18 J	0.458	1
06966	Silver	7440-22-4	0.373 J	0.198	1
01667	Sodium	7440-23-5	56.0 J	17.4	1
06925	Thallium	7440-28-0	N.D.	0.833	1
06971	Vanadium	7440-62-2	21.8	0.0947	1
06972	Zinc	7440-66-6	92.7	0.271	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0329 J	0.0108	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	8.5	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151821AA	07/01/2015 15:46	Sarah A Guill	0.72
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517738104	06/26/2015 16:06	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517738104	06/26/2015 16:06	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517738104	06/25/2015 11:00	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15178SLA026	06/29/2015 11:47	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15178SLA026	06/28/2015 22:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1

Sample Description: PLA-WP-002 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945329
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 11:00

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP002 SDG#: NWP27-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151805708005	06/30/2015 17:39	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151805711001	07/01/2015 17:40	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151805708005	06/30/2015 08:45	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151805711001	06/30/2015 13:23	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15182820005A	07/01/2015 20:21	Scott W Freisher	1

Sample Description: PLA-WP-003 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945330
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 14:30

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP003 SDG#: NWP27-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	0.89
10237	Benzene	71-43-2	N.D.	0.5	0.89
10237	Bromobenzene	108-86-1	N.D.	1	0.89
10237	Bromochloromethane	74-97-5	N.D.	1	0.89
10237	Bromodichloromethane	75-27-4	N.D.	1	0.89
10237	Bromoform	75-25-2	N.D.	1	0.89
10237	Bromomethane	74-83-9	N.D.	2	0.89
10237	2-Butanone	78-93-3	N.D.	4	0.89
10237	n-Butylbenzene	104-51-8	N.D.	1	0.89
10237	sec-Butylbenzene	135-98-8	N.D.	1	0.89
10237	tert-Butylbenzene	98-06-6	N.D.	1	0.89
10237	Carbon Disulfide	75-15-0	N.D.	1	0.89
10237	Carbon Tetrachloride	56-23-5	N.D.	1	0.89
10237	Chlorobenzene	108-90-7	N.D.	1	0.89
10237	Chloroethane	75-00-3	N.D.	2	0.89
10237	Chloroform	67-66-3	N.D.	1	0.89
10237	Chloromethane	74-87-3	N.D.	2	0.89
10237	2-Chlorotoluene	95-49-8	N.D.	1	0.89
10237	4-Chlorotoluene	106-43-4	N.D.	1	0.89
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	0.89
10237	Dibromochloromethane	124-48-1	N.D.	1	0.89
10237	1,2-Dibromoethane	106-93-4	N.D.	1	0.89
10237	Dibromomethane	74-95-3	N.D.	1	0.89
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	0.89
10237	1,1-Dichloroethane	75-34-3	N.D.	1	0.89
10237	1,2-Dichloroethane	107-06-2	N.D.	1	0.89
10237	1,1-Dichloroethene	75-35-4	N.D.	1	0.89
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	0.89
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	0.89
10237	1,2-Dichloropropane	78-87-5	N.D.	1	0.89
10237	1,3-Dichloropropane	142-28-9	N.D.	1	0.89
10237	2,2-Dichloropropane	594-20-7	N.D.	1	0.89
10237	1,1-Dichloropropene	563-58-6	N.D.	1	0.89
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	0.89
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	0.89
10237	Ethylbenzene	100-41-4	N.D.	1	0.89
10237	2-Hexanone	591-78-6	N.D.	3	0.89
10237	Isopropylbenzene	98-82-8	N.D.	1	0.89
10237	p-Isopropyltoluene	99-87-6	N.D.	1	0.89
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	0.89
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	0.89
10237	Methylene Chloride	75-09-2	N.D.	2	0.89
10237	n-Propylbenzene	103-65-1	N.D.	1	0.89
10237	Styrene	100-42-5	N.D.	1	0.89
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	0.89
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	0.89
10237	Tetrachloroethene	127-18-4	N.D.	1	0.89
10237	Toluene	108-88-3	N.D.	1	0.89
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	0.89
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	0.89

Sample Description: PLA-WP-003 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945330
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 14:30

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP003 SDG#: NWP27-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/kg					
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	0.89
10237	Trichloroethene	79-01-6	N.D.	1	0.89
10237	Trichlorofluoromethane	75-69-4	N.D.	2	0.89
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	0.89
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	0.89
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	0.89
10237	Vinyl Chloride	75-01-4	N.D.	1	0.89
10237	m+p-Xylene	179601-23-1	N.D.	1	0.89
10237	o-Xylene	95-47-6	N.D.	1	0.89
GC/MS Semivolatiles SW-846 8270D ug/kg					
10726	Acenaphthene	83-32-9	N.D.	4	1
10726	Acenaphthylene	208-96-8	N.D.	4	1
10726	Anthracene	120-12-7	N.D.	4	1
10726	Benzidine	92-87-5	N.D.	790	1
10726	Benzo(a)anthracene	56-55-3	7 J	4	1
10726	Benzo(a)pyrene	50-32-8	12 J	4	1
10726	Benzo(b)fluoranthene	205-99-2	11 J	4	1
10726	Benzo(g,h,i)perylene	191-24-2	16 J	4	1
10726	Benzo(k)fluoranthene	207-08-9	8 J	4	1
10726	Benzoic acid	65-85-0	N.D.	190	1
10726	Benzyl alcohol	100-51-6	N.D.	190	1
10726	4-Bromophenyl-phenylether	101-55-3	N.D.	19	1
10726	Butylbenzylphthalate	85-68-7	N.D.	75	1
10726	Di-n-butylphthalate	84-74-2	N.D.	75	1
10726	Carbazole	86-74-8	N.D.	19	1
10726	4-Chloro-3-methylphenol	59-50-7	N.D.	19	1
10726	4-Chloroaniline	106-47-8	N.D.	38	1
10726	bis(2-Chloroethoxy)methane	111-91-1	N.D.	19	1
10726	bis(2-Chloroethyl)ether	111-44-4	N.D.	19	1
10726	2-Chloronaphthalene	91-58-7	N.D.	8	1
10726	2-Chlorophenol	95-57-8	N.D.	19	1
10726	4-Chlorophenyl-phenylether	7005-72-3	N.D.	19	1
10726	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	19	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10726	Chrysene	218-01-9	8 J	4	1
10726	Dibenz(a,h)anthracene	53-70-3	N.D.	4	1
10726	Dibenzofuran	132-64-9	N.D.	19	1
10726	1,2-Dichlorobenzene	95-50-1	N.D.	19	1
10726	1,3-Dichlorobenzene	541-73-1	N.D.	19	1
10726	1,4-Dichlorobenzene	106-46-7	N.D.	19	1
10726	3,3'-Dichlorobenzidine	91-94-1	N.D.	110	1
10726	2,4-Dichlorophenol	120-83-2	N.D.	19	1
10726	Diethylphthalate	84-66-2	N.D.	75	1
10726	2,4-Dimethylphenol	105-67-9	N.D.	19	1
10726	Dimethylphthalate	131-11-3	N.D.	75	1
10726	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	190	1

Sample Description: PLA-WP-003 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945330
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 14:30

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP003 SDG#: NWP27-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/kg	ug/kg	
10726	2,4-Dinitrophenol	51-28-5	N.D.	340	1
10726	2,4-Dinitrotoluene	121-14-2	N.D.	75	1
10726	2,6-Dinitrotoluene	606-20-2	N.D.	19	1
10726	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	75	1
10726	Fluoranthene	206-44-0	10 J	4	1
10726	Fluorene	86-73-7	N.D.	4	1
10726	Hexachlorobenzene	118-74-1	N.D.	4	1
10726	Hexachlorobutadiene	87-68-3	N.D.	19	1
10726	Hexachlorocyclopentadiene	77-47-4	N.D.	190	1
10726	Hexachloroethane	67-72-1	N.D.	38	1
10726	Indeno(1,2,3-cd)pyrene	193-39-5	11 J	4	1
10726	Isophorone	78-59-1	N.D.	19	1
10726	2-Methylnaphthalene	91-57-6	N.D.	4	1
10726	2-Methylphenol	95-48-7	N.D.	19	1
10726	4-Methylphenol	106-44-5	N.D.	19	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
10726	Naphthalene	91-20-3	N.D.	4	1
10726	2-Nitroaniline	88-74-4	N.D.	19	1
10726	3-Nitroaniline	99-09-2	N.D.	75	1
10726	4-Nitroaniline	100-01-6	N.D.	75	1
10726	Nitrobenzene	98-95-3	N.D.	19	1
10726	2-Nitrophenol	88-75-5	N.D.	19	1
10726	4-Nitrophenol	100-02-7	N.D.	190	1
10726	N-Nitroso-di-n-propylamine	621-64-7	N.D.	19	1
10726	N-Nitrosodiphenylamine	86-30-6	N.D.	19	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10726	Di-n-octylphthalate	117-84-0	N.D.	75	1
10726	Pentachlorophenol	87-86-5	N.D.	38	1
10726	Phenanthrene	85-01-8	4 J	4	1
10726	Phenol	108-95-2	N.D.	19	1
10726	Pyrene	129-00-0	13 J	4	1
10726	1,2,4-Trichlorobenzene	120-82-1	N.D.	19	1
10726	2,4,5-Trichlorophenol	95-95-4	N.D.	19	1
10726	2,4,6-Trichlorophenol	88-06-2	N.D.	19	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
Nitrobenzene

Metals		SW-846 6010B	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,900	5.17	1
06944	Antimony	7440-36-0	0.576 J	0.376	1
06935	Arsenic	7440-38-2	9.78	0.729	1
06946	Barium	7440-39-3	50.0	0.0376	1
06947	Beryllium	7440-41-7	0.556 J	0.0763	1

Sample Description: PLA-WP-003 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945330
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 14:30

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP003 SDG#: NWP27-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/kg	mg/kg	
06949	Cadmium	7440-43-9	0.351 J	0.0376	1
01650	Calcium	7440-70-2	1,790	4.32	1
06951	Chromium	7440-47-3	17.2	0.125	1
06952	Cobalt	7440-48-4	8.66	0.109	1
06953	Copper	7440-50-8	24.8	0.376	1
01654	Iron	7439-89-6	22,600	3.80	1
06955	Lead	7439-92-1	21.6	0.569	1
01657	Magnesium	7439-95-4	2,640	1.90	1
06958	Manganese	7439-96-5	517	0.0945	1
06961	Nickel	7440-02-0	27.4	0.171	1
01662	Potassium	7440-09-7	1,830	14.8	1
06936	Selenium	7782-49-2	1.25 J	0.501	1
06966	Silver	7440-22-4	0.596	0.216	1
01667	Sodium	7440-23-5	50.4 J	19.0	1
06925	Thallium	7440-28-0	1.13 J	0.911	1
06971	Vanadium	7440-62-2	26.8	0.104	1
06972	Zinc	7440-66-6	128	0.296	1
		SW-846 7471A	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0329 J	0.0114	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	12.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151821AA	07/01/2015 16:08	Sarah A Guill	0.89
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517738104	06/26/2015 16:06	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517738104	06/26/2015 16:06	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517738104	06/25/2015 14:30	Client Supplied	1
10726	SVOA 8270D (microwave)	SW-846 8270D	1	15178SLA026	06/29/2015 12:14	Linda M Hartenstine	1
10813	BNA Soil Microwave APP IX	SW-846 3546	1	15178SLA026	06/28/2015 22:00	Nicholas W Shroyer	1
01643	Aluminum	SW-846 6010B	1	151805708005	06/30/2015 17:42	Suzanne M Will	1
06944	Antimony	SW-846 6010B	1	151805708005	06/30/2015 17:42	Suzanne M Will	1
06935	Arsenic	SW-846 6010B	1	151805708005	06/30/2015 17:42	Suzanne M Will	1

Sample Description: PLA-WP-003 Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7945330
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 14:30

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

WP003 SDG#: NWP27-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06946	Barium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06947	Beryllium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06949	Cadmium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
01650	Calcium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06951	Chromium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06952	Cobalt	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06953	Copper	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
01654	Iron	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06955	Lead	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
01657	Magnesium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06958	Manganese	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06961	Nickel	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
01662	Potassium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06936	Selenium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06966	Silver	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
01667	Sodium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06925	Thallium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06971	Vanadium	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
06972	Zinc	SW-846 6010B	1	151805708005	06/30/2015	17:42	Suzanne M Will	1
00159	Mercury	SW-846 7471A	1	151805711001	07/01/2015	17:42	Parker D Lindstrom	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151805708005	06/30/2015	08:45	James L Mertz	1
05711	Hg-SW, 7471A - U3	SW-846 7471A modified	1	151805711001	06/30/2015	13:23	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15182820005A	07/01/2015	20:21	Scott W Freisher	1

Sample Description: TB-062515-S1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7945331
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 15:50

Geosyntec

Submitted: 06/26/2015 09:00

1420 Kensington Road

Reported: 07/02/2015 13:36

Suite 103

Oakbrook IL 60523

TB25S SDG#: NWP27-04TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	
10237	Acetone	67-64-1	N.D.	7	1
10237	Benzene	71-43-2	N.D.	0.5	1
10237	Bromobenzene	108-86-1	N.D.	1	1
10237	Bromochloromethane	74-97-5	N.D.	1	1
10237	Bromodichloromethane	75-27-4	N.D.	1	1
10237	Bromoform	75-25-2	N.D.	1	1
10237	Bromomethane	74-83-9	N.D.	2	1
10237	2-Butanone	78-93-3	N.D.	4	1
10237	n-Butylbenzene	104-51-8	N.D.	1	1
10237	sec-Butylbenzene	135-98-8	N.D.	1	1
10237	tert-Butylbenzene	98-06-6	N.D.	1	1
10237	Carbon Disulfide	75-15-0	N.D.	1	1
10237	Carbon Tetrachloride	56-23-5	N.D.	1	1
10237	Chlorobenzene	108-90-7	N.D.	1	1
10237	Chloroethane	75-00-3	N.D.	2	1
10237	Chloroform	67-66-3	N.D.	1	1
10237	Chloromethane	74-87-3	N.D.	2	1
10237	2-Chlorotoluene	95-49-8	N.D.	1	1
10237	4-Chlorotoluene	106-43-4	N.D.	1	1
10237	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10237	Dibromochloromethane	124-48-1	N.D.	1	1
10237	1,2-Dibromoethane	106-93-4	N.D.	1	1
10237	Dibromomethane	74-95-3	N.D.	1	1
10237	Dichlorodifluoromethane	75-71-8	N.D.	2	1
10237	1,1-Dichloroethane	75-34-3	N.D.	1	1
10237	1,2-Dichloroethane	107-06-2	N.D.	1	1
10237	1,1-Dichloroethene	75-35-4	N.D.	1	1
10237	cis-1,2-Dichloroethene	156-59-2	N.D.	1	1
10237	trans-1,2-Dichloroethene	156-60-5	N.D.	1	1
10237	1,2-Dichloropropane	78-87-5	N.D.	1	1
10237	1,3-Dichloropropane	142-28-9	N.D.	1	1
10237	2,2-Dichloropropane	594-20-7	N.D.	1	1
10237	1,1-Dichloropropene	563-58-6	N.D.	1	1
10237	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	1
10237	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	1
10237	Ethylbenzene	100-41-4	N.D.	1	1
10237	2-Hexanone	591-78-6	N.D.	3	1
10237	Isopropylbenzene	98-82-8	N.D.	1	1
10237	p-Isopropyltoluene	99-87-6	N.D.	1	1
10237	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10237	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10237	Methylene Chloride	75-09-2	N.D.	2	1
10237	n-Propylbenzene	103-65-1	N.D.	1	1
10237	Styrene	100-42-5	N.D.	1	1
10237	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	1
10237	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	1
10237	Tetrachloroethene	127-18-4	N.D.	1	1
10237	Toluene	108-88-3	N.D.	1	1
10237	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10237	1,1,1-Trichloroethane	71-55-6	N.D.	1	1

Sample Description: TB-062515-S1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7945331
LL Group # 1572470
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/25/2015 15:50

Geosyntec

1420 Kensington Road

Submitted: 06/26/2015 09:00

Suite 103

Reported: 07/02/2015 13:36

Oakbrook IL 60523

TB25S SDG#: NWP27-04TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/kg	ug/kg	
10237	1,1,2-Trichloroethane	79-00-5	N.D.	1	1
10237	Trichloroethene	79-01-6	N.D.	1	1
10237	Trichlorofluoromethane	75-69-4	N.D.	2	1
10237	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10237	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10237	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10237	Vinyl Chloride	75-01-4	N.D.	1	1
10237	m+p-Xylene	179601-23-1	N.D.	1	1
10237	o-Xylene	95-47-6	N.D.	1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	VOCs- Solid by 8260B	SW-846 8260B	1	B151821AA	07/01/2015 10:51	Sarah A Guill	1
06176	GC/MS - LL Water Prep	SW-846 5035	1	201517738104	06/26/2015 16:06	Mitchell R Washel	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201517738104	06/26/2015 16:06	Mitchell R Washel	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201517738104	06/25/2015 15:50	Client Supplied	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 13:36

Group Number: 1572470

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B151821AA	Sample number(s): 7945328-7945331							
Acetone	N.D.	7.	ug/kg	100	107	57-127	6	30
Benzene	N.D.	0.5	ug/kg	99	96	80-120	3	30
Bromobenzene	N.D.	1.	ug/kg	96	94	78-120	2	30
Bromochloromethane	N.D.	1.	ug/kg	114	110	80-120	4	30
Bromodichloromethane	N.D.	1.	ug/kg	94	91	75-120	3	30
Bromoform	N.D.	1.	ug/kg	83	85	64-120	2	30
Bromomethane	N.D.	2.	ug/kg	98	94	41-144	4	30
2-Butanone	N.D.	4.	ug/kg	96	97	62-123	2	30
n-Butylbenzene	N.D.	1.	ug/kg	89	86	72-120	4	30
sec-Butylbenzene	N.D.	1.	ug/kg	93	89	69-120	4	30
tert-Butylbenzene	N.D.	1.	ug/kg	96	92	75-120	5	30
Carbon Disulfide	N.D.	1.	ug/kg	83	77	52-126	7	30
Carbon Tetrachloride	N.D.	1.	ug/kg	98	93	69-130	4	30
Chlorobenzene	N.D.	1.	ug/kg	100	95	80-120	5	30
Chloroethane	N.D.	2.	ug/kg	96	87	38-142	9	30
Chloroform	N.D.	1.	ug/kg	107	104	80-120	3	30
Chloromethane	N.D.	2.	ug/kg	93	83	56-120	11	30
2-Chlorotoluene	N.D.	1.	ug/kg	94	91	78-120	4	30
4-Chlorotoluene	N.D.	1.	ug/kg	95	94	79-120	1	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/kg	90	93	59-122	3	30
Dibromochloromethane	N.D.	1.	ug/kg	91	90	77-120	1	30
1,2-Dibromoethane	N.D.	1.	ug/kg	103	102	80-120	1	30
Dibromomethane	N.D.	1.	ug/kg	106	104	80-120	2	30
Dichlorodifluoromethane	N.D.	2.	ug/kg	93	87	26-137	7	30
1,1-Dichloroethane	N.D.	1.	ug/kg	95	91	77-120	4	30
1,2-Dichloroethane	N.D.	1.	ug/kg	113	110	77-130	3	30
1,1-Dichloroethene	N.D.	1.	ug/kg	102	94	73-129	8	30
cis-1,2-Dichloroethene	N.D.	1.	ug/kg	106	100	80-120	5	30
trans-1,2-Dichloroethene	N.D.	1.	ug/kg	106	101	79-122	4	30
1,2-Dichloropropane	N.D.	1.	ug/kg	93	91	76-120	2	30
1,3-Dichloropropane	N.D.	1.	ug/kg	97	96	80-120	1	30
2,2-Dichloropropane	N.D.	1.	ug/kg	84	82	72-123	3	30
1,1-Dichloropropene	N.D.	1.	ug/kg	95	89	80-120	7	30
cis-1,3-Dichloropropene	N.D.	1.	ug/kg	86	85	74-120	2	30
trans-1,3-Dichloropropene	N.D.	1.	ug/kg	84	84	76-120	0	30
Ethylbenzene	N.D.	1.	ug/kg	96	92	80-120	4	30
2-Hexanone	N.D.	3.	ug/kg	83	86	47-133	3	30
Isopropylbenzene	N.D.	1.	ug/kg	99	94	76-120	5	30
p-Isopropyltoluene	N.D.	1.	ug/kg	93	89	69-120	5	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	103	103	72-120	1	30
4-Methyl-2-pentanone	N.D.	3.	ug/kg	87	91	57-123	4	30
Methylene Chloride	N.D.	2.	ug/kg	105	106	80-124	0	30
n-Propylbenzene	N.D.	1.	ug/kg	92	88	77-120	4	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 13:36

Group Number: 1572470

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/kg	96	91	76-120	4	30
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/kg	94	91	80-120	3	30
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	94	93	72-120	2	30
Tetrachloroethene	N.D.	1.	ug/kg	105	101	78-120	4	30
Toluene	N.D.	1.	ug/kg	97	93	80-120	5	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/kg	99	95	52-120	4	30
1,1,1-Trichloroethane	N.D.	1.	ug/kg	98	92	66-126	6	30
1,1,2-Trichloroethane	N.D.	1.	ug/kg	99	99	80-120	1	30
Trichloroethene	N.D.	1.	ug/kg	104	99	80-120	5	30
Trichlorofluoromethane	N.D.	2.	ug/kg	109	101	58-133	8	30
1,2,3-Trichloropropane	N.D.	1.	ug/kg	106	108	77-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/kg	92	89	79-120	3	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/kg	94	90	78-120	4	30
Vinyl Chloride	N.D.	1.	ug/kg	93	88	59-120	6	30
m+p-Xylene	N.D.	1.	ug/kg	98	94	80-120	4	30
o-Xylene	N.D.	1.	ug/kg	95	91	80-120	4	30

Batch number: 15178SLA026

Sample number(s): 7945328-7945330

Acenaphthene	N.D.	3.	ug/kg	102		83-116		
Acenaphthylene	N.D.	3.	ug/kg	108		83-127		
Anthracene	N.D.	3.	ug/kg	104		82-118		
Benzidine	N.D.	700.	ug/kg	86*		22-71		
Benzo(a)anthracene	N.D.	3.	ug/kg	102		76-119		
Benzo(a)pyrene	N.D.	3.	ug/kg	104		85-117		
Benzo(b)fluoranthene	N.D.	3.	ug/kg	101		78-129		
Benzo(g,h,i)perylene	N.D.	3.	ug/kg	107		82-119		
Benzo(k)fluoranthene	N.D.	3.	ug/kg	96		79-120		
Benzoic acid	N.D.	170.	ug/kg	81		41-122		
Benzyl alcohol	N.D.	170.	ug/kg	94		82-123		
4-Bromophenyl-phenylether	N.D.	17.	ug/kg	99		84-120		
Butylbenzylphthalate	N.D.	67.	ug/kg	101		80-118		
Di-n-butylphthalate	N.D.	67.	ug/kg	98		84-120		
Carbazole	N.D.	17.	ug/kg	100		78-117		
4-Chloro-3-methylphenol	N.D.	17.	ug/kg	99		79-127		
4-Chloroaniline	N.D.	33.	ug/kg	85		10-101		
bis(2-Chloroethoxy)methane	N.D.	17.	ug/kg	88		77-116		
bis(2-Chloroethyl) ether	N.D.	17.	ug/kg	86		77-115		
2-Chloronaphthalene	N.D.	7.	ug/kg	115		63-146		
2-Chlorophenol	N.D.	17.	ug/kg	109		85-123		
4-Chlorophenyl-phenylether	N.D.	17.	ug/kg	99		81-120		
2,2'-oxybis(1-Chloropropane)	N.D.	17.	ug/kg	93		70-119		
Chrysene	N.D.	3.	ug/kg	95		80-121		
Dibenz(a,h)anthracene	N.D.	3.	ug/kg	107		81-123		
Dibenzofuran	N.D.	17.	ug/kg	102		85-115		
1,2-Dichlorobenzene	N.D.	17.	ug/kg	98		79-112		
1,3-Dichlorobenzene	N.D.	17.	ug/kg	92		79-113		
1,4-Dichlorobenzene	N.D.	17.	ug/kg	91		79-112		
3,3'-Dichlorobenzidine	N.D.	100.	ug/kg	64		16-117		
2,4-Dichlorophenol	N.D.	17.	ug/kg	104		81-123		
Diethylphthalate	N.D.	67.	ug/kg	99		81-118		
2,4-Dimethylphenol	N.D.	17.	ug/kg	93		83-120		
Dimethylphthalate	N.D.	67.	ug/kg	98		82-113		
4,6-Dinitro-2-methylphenol	N.D.	170.	ug/kg	78		76-124		
2,4-Dinitrophenol	N.D.	300.	ug/kg	57		47-130		
2,4-Dinitrotoluene	N.D.	67.	ug/kg	103		81-122		
2,6-Dinitrotoluene	N.D.	17.	ug/kg	108		83-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 13:36

Group Number: 1572470

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
bis(2-Ethylhexyl) phthalate	N.D.	67.	ug/kg	98		81-121		
Fluoranthene	N.D.	3.	ug/kg	92		81-117		
Fluorene	N.D.	3.	ug/kg	105		86-118		
Hexachlorobenzene	N.D.	3.	ug/kg	99		75-123		
Hexachlorobutadiene	N.D.	17.	ug/kg	83		78-121		
Hexachlorocyclopentadiene	N.D.	170.	ug/kg	81		75-176		
Hexachloroethane	N.D.	33.	ug/kg	88		78-114		
Indeno(1,2,3-cd) pyrene	N.D.	3.	ug/kg	105		81-118		
Isophorone	N.D.	17.	ug/kg	91		87-125		
2-Methylnaphthalene	N.D.	3.	ug/kg	95		83-109		
2-Methylphenol	N.D.	17.	ug/kg	103		82-125		
4-Methylphenol	N.D.	17.	ug/kg	97		75-119		
Naphthalene	N.D.	3.	ug/kg	95		83-112		
2-Nitroaniline	N.D.	17.	ug/kg	116		84-126		
3-Nitroaniline	N.D.	67.	ug/kg	112		66-119		
4-Nitroaniline	N.D.	67.	ug/kg	86		48-112		
Nitrobenzene	N.D.	17.	ug/kg	78*		80-115		
2-Nitrophenol	N.D.	17.	ug/kg	104		83-120		
4-Nitrophenol	N.D.	170.	ug/kg	84		60-129		
N-Nitroso-di-n-propylamine	N.D.	17.	ug/kg	84		75-116		
N-Nitrosodiphenylamine	N.D.	17.	ug/kg	102		83-118		
Di-n-octylphthalate	N.D.	67.	ug/kg	101		82-134		
Pentachlorophenol	N.D.	33.	ug/kg	101		57-126		
Phenanthrene	N.D.	3.	ug/kg	101		80-114		
Phenol	N.D.	17.	ug/kg	90		75-117		
Pyrene	N.D.	3.	ug/kg	99		81-114		
1,2,4-Trichlorobenzene	N.D.	17.	ug/kg	92		83-113		
2,4,5-Trichlorophenol	N.D.	17.	ug/kg	102		86-123		
2,4,6-Trichlorophenol	N.D.	17.	ug/kg	106		81-123		

Batch number: 151805708005

Sample number(s): 7945328-7945330

Aluminum	5.41	J	4.54	mg/kg	101	80-120
Antimony	N.D.		0.330	mg/kg	101	80-120
Arsenic	N.D.		0.640	mg/kg	102	80-120
Barium	N.D.		0.0330	mg/kg	97	80-120
Beryllium	N.D.		0.0670	mg/kg	96	80-120
Cadmium	N.D.		0.0330	mg/kg	98	80-120
Calcium	N.D.		3.79	mg/kg	100	80-120
Chromium	N.D.		0.110	mg/kg	97	80-120
Cobalt	N.D.		0.0960	mg/kg	100	80-120
Copper	N.D.		0.330	mg/kg	99	80-120
Iron	N.D.		3.34	mg/kg	99	80-120
Lead	N.D.		0.500	mg/kg	99	80-120
Magnesium	2.07	J	1.67	mg/kg	101	80-120
Manganese	0.225	J	0.0830	mg/kg	97	80-120
Nickel	N.D.		0.150	mg/kg	100	80-120
Potassium	N.D.		13.0	mg/kg	100	80-120
Selenium	N.D.		0.440	mg/kg	98	80-120
Silver	N.D.		0.190	mg/kg	101	80-120
Sodium	N.D.		16.7	mg/kg	100	80-120
Thallium	N.D.		0.800	mg/kg	110	80-120
Vanadium	0.159	J	0.0910	mg/kg	100	80-120
Zinc	N.D.		0.260	mg/kg	98	80-120

Batch number: 151805711001

Sample number(s): 7945328-7945330

Mercury	N.D.		0.0100	mg/kg	102	80-120
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*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1572470

Reported: 07/02/2015 13:36

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15182820005A	Sample number(s): 7945328-7945330							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 15178SLA026	Sample number(s): 7945328-7945330 UNSPK: P938100								
Acenaphthene	78	78	45-141	0	30				
Acenaphthylene	83	80	53-143	3	30				
Anthracene	78	76	42-147	2	30				
Benizidine	0*	0*	35-141	0	30				
Benzo(a)anthracene	65	69	32-150	6	30				
Benzo(a)pyrene	65	77	36-151	14	30				
Benzo(b)fluoranthene	59	70	29-150	15	30				
Benzo(g,h,i)perylene	71	78	41-147	8	30				
Benzo(k)fluoranthene	70	73	35-146	4	30				
Benzoic acid	38	44	23-170	15	30				
Benzyl alcohol	72*	71*	74-123	1	30				
4-Bromophenyl-phenylether	87	79	48-146	9	30				
Butylbenzylphthalate	75	81	50-137	8	30				
Di-n-butylphthalate	74	70	65-126	5	30				
Carbazole	76	76	36-143	2	30				
4-Chloro-3-methylphenol	71	66	48-141	6	30				
4-Chloroaniline	48	51	10-100	8	30				
bis(2-Chloroethoxy)methane	68	67	64-119	1	30				
bis(2-Chloroethyl)ether	71	73	63-122	3	30				
2-Chloronaphthalene	69	61	40-156	12	30				
2-Chlorophenol	86	84	50-142	2	30				
4-Chlorophenyl-phenylether	77	75	49-135	2	30				
2,2'-oxybis(1-Chloropropane)	72	77	60-120	8	30				
Chrysene	60	66	28-146	8	30				
Dibenz(a,h)anthracene	79	81	38-156	2	30				
Dibenzofuran	80	77	34-146	3	30				
1,2-Dichlorobenzene	81	74	51-130	9	30				
1,3-Dichlorobenzene	70	68	51-125	2	30				
1,4-Dichlorobenzene	76	71	50-127	6	30				
3,3'-Dichlorobenzidine	41	36	10-143	13	30				
2,4-Dichlorophenol	79	77	46-145	2	30				
Diethylphthalate	73	68	61-124	7	30				
2,4-Dimethylphenol	66	65	38-140	0	30				
Dimethylphthalate	71	72	59-124	2	30				
4,6-Dinitro-2-methylphenol	61	0*	10-148	200*	30				
2,4-Dinitrophenol	47	0*	20-143	200*	30				
2,4-Dinitrotoluene	71	72	37-149	2	30				
2,6-Dinitrotoluene	80	68	54-134	15	30				
bis(2-Ethylhexyl)phthalate	81	79	60-133	2	30				
Fluoranthene	61	64	41-135	4	30				
Fluorene	77	77	43-146	1	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 13:36

Group Number: 1572470

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Hexachlorobenzene	71	77	36-150	8	30				
Hexachlorobutadiene	68	67	65-125	1	30				
Hexachlorocyclopentadiene	28	0*	10-153	200*	30				
Hexachloroethane	74	78	37-143	5	30				
Indeno(1,2,3-cd)pyrene	68	79	35-151	15	30				
Isophorone	65*	64*	68-119	2	30				
2-Methylnaphthalene	70	75	39-140	7	30				
2-Methylphenol	79	76	36-149	4	30				
4-Methylphenol	78	72	46-135	7	30				
Naphthalene	70	75	39-147	7	30				
2-Nitroaniline	83	91	46-152	10	30				
3-Nitroaniline	76	72	31-145	4	30				
4-Nitroaniline	69	72	30-131	5	30				
Nitrobenzene	60	59	54-131	2	30				
2-Nitrophenol	74	77	38-150	5	30				
4-Nitrophenol	65	62	25-142	5	30				
N-Nitroso-di-n-propylamine	63	63	58-126	0	30				
N-Nitrosodiphenylamine	81	79	41-147	3	30				
Di-n-octylphthalate	75	78	53-156	5	30				
Pentachlorophenol	58	63	23-145	8	30				
Phenanthrene	70	73	42-141	4	30				
Phenol	45*	50*	53-129	7	30				
Pyrene	64	71	37-140	8	30				
1,2,4-Trichlorobenzene	76	71	45-139	6	30				
2,4,5-Trichlorophenol	73	81	42-144	11	30				
2,4,6-Trichlorophenol	82	76	43-145	8	30				

Batch number: 151805708005	Sample number(s): 7945328-7945330 UNSPK: P943407 BKG: P943407								
Aluminum	1272	1249	75-125	1	20	5,520	7,400	29*	20
	(2)	(2)							
Antimony	83	88	75-125	3	20	1.22 J	0.705 J	53* (1)	20
Arsenic	97	97	75-125	1	20	8.74	9.55	9 (1)	20
Barium	106	100	75-125	6	20	73.4	104	34*	20
Beryllium	99	98	75-125	3	20	0.765	1.02	28* (1)	20
Cadmium	99	97	75-125	4	20	0.773	0.838	8 (1)	20
Calcium	1184	2219	75-125	25*	20	8,890	12,100	30*	20
	(2)	(2)							
Chromium	179*	79	75-125	29*	20	44.6	53.7	18	20
Cobalt	99	98	75-125	4	20	6.67	11.2	50*	20
Copper	-153	-155	75-125	1	20	114	51.5	76*	20
	(2)	(2)							
Iron	-342	-6067	75-125	18	20	32,700	35,100	7	20
	(2)	(2)							
Lead	1170	326 (2)	75-125	35*	20	247	339	32*	20
	(2)								
Magnesium	1222	2585	75-125	29*	20	5,050	6,310	22*	20
	(2)	(2)							
Manganese	165 (2)	126 (2)	75-125	6	20	252	367	37*	20
Nickel	99	95	75-125	5	20	21.0	30.1	36*	20
Potassium	153*	164*	75-125	2	20	1,290	1,930	40*	20
Selenium	98	98	75-125	3	20	3.11	3.36	8 (1)	20
Silver	102	103	75-125	2	20	0.763	0.759	1 (1)	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/02/2015 13:36

Group Number: 1572470

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Sodium	103	106	75-125	1	20	78.9	J 111	34* (1)	20
Thallium	100	103	75-125	0	20	0.977	J 1.20	J 21* (1)	20
Vanadium	115	108	75-125	7	20	18.0	20.7	14	20
Zinc	171*	118	75-125	14	20	127	167	27*	20
Batch number: 151805711001	Sample number(s): 7945328-7945330 UNSPK: P943407 BKG: P943407								
Mercury	105	104	80-120	1	20	0.0441	J 0.0496	J 12 (1)	20
Batch number: 15182820005A	Sample number(s): 7945328-7945330 BKG: P934501								
Moisture						19.5	15.8	21*	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- Solid by 8260B
Batch number: B151821AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7945328	112	110	99	95
7945329	110	116	96	95
7945330	110	107	98	95
7945331	105	101	100	97
Blank	110	107	97	97
LCS	108	113	100	99
LCSD	110	113	100	99
Limits:	50-141	54-135	52-141	50-131

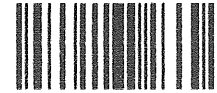
Analysis Name: SVOA 8270D (microwave)
Batch number: 15178SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7945328	87	91	85	71	93	97
7945329	90	93	83	75	94	98
7945330	85	88	86	69	89	96
Blank	88	98	101	75	92	104
LCS	93	98	102	78	93	106
MS	71	76	72	60	77	78
MSD	73	77	77	61	81	81
Limits:	58-122	57-128	36-142	54-123	63-124	61-142

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



380277



Lancaster Laboratories Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1572470 Sample # 7945328-31
 Instructions on reverse side correspond with circled numbers.

1 Client Information			4 Matrix			5 Analysis Requested										For Lab Use Only	
Client: <u>Geosyntec Consultants</u>		Acct. #:	Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Other: <u>Trip Blank water</u>			Preservation Codes										FSC: _____ SCR#: _____	
Project Name/#: <u>CHR 8417</u>		PWSID #:				VOCs <u>8260B</u> SVOCs <u>8270.D</u> TAL Metals + Hg TCLP Organic/Inorg. Ignitability Paint Filter pH Total Cyanide Total Sulfide										Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other	
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:				3		6 Remarks									
Sampler: <u>Various</u>		Quote #:				Grab	Composite	HOLD TCLP, Ignitability, Paint Filter, pH, tot CN, tot S ²⁻ - CONTACT Dave Kulczykcki with questions. 5-Day TAT on VOCs, SVOCs, TAL Metals + Hg ONLY.									
Name of state where samples were collected: <u>IN</u>			Collected		Total # of Containers												
2 Sample Identification		Date	Time	Soil	Water	Other											
<u>PLA-WP-001</u>		<u>25 Jun 15</u>	<u>1300</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>PLA-WP-002</u>			<u>1100</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>PLA-WP-003</u>			<u>1430</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>TB-062515-S1</u>			<u>1550</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

7 Turnaround Time (TAT) Requested (please circle) Standard _____ (Rush TAT is subject to laboratory approval and surcharge.) Rush <u>5-day TAT</u> Date results are needed: _____ E-mail address: <u>dkulczykcki@geosyntec.com</u>		Relinquished by: <u>[Signature]</u> Date: <u>25 Jun 15</u> Time: <u>17:00</u> Received by: <u>[Signature]</u> Date: <u>6/25/15</u> Time: <u>17:03</u>
		Relinquished by: <u>[Signature]</u> Date: <u>6/25/15</u> Time: <u>17:11</u> Received by: _____ Date: _____ Time: _____
		Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
		Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
8 Data Package Options (circle if required) Type I (EPA Level 3 Equivalent/non-CLP) Type II (Raw Data Only) <u>Type IV CLP SW</u> Type III (Reduced non-CLP) TX TRRP-13 NYSDEC Category A or B MA MCP CT RCP		Relinquished by: _____ Date: _____ Time: _____ Received by: <u>[Signature]</u> Date: <u>6/26/15</u> Time: <u>0900</u>
EDD Required? <u>Yes</u> No If yes, format: _____ Site-Specific QC (MS/MSD/Dup)? Yes <u>No</u> (If yes, indicate QC sample and submit triplicate sample volume.)		Relinquished by Commercial Carrier: UPS _____ FedEx <input checked="" type="checkbox"/> Other _____ Temperature upon receipt <u>0.3</u> °C

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 07, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/27/2015

Group Number: 1572792

SDG: NWP28

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

RB-018 Grab Water
TB-062615-RB Water

Lancaster Labs (LL) #

7947125
7947126

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: **RB-018 Grab Water**
LaPorte, IN
Newporte Landing Development Site

LL Sample # **WW 7947125**
 LL Group # **1572792**
 Account # **20448**

Project Name: **Newporte Landing Development Site**

Collected: 06/26/2015 16:00

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:05

Suite 103

Oakbrook IL 60523

RB18- SDG#: NWP28-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: RB-018 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947125
LL Group # 1572792
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:00

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:05

Suite 103

Oakbrook IL 60523

RB18- SDG#: NWP28-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzydine	92-87-5	N.D.	21	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: RB-018 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947125
LL Group # 1572792
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:00

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:05

Suite 103

Oakbrook IL 60523

RB18- SDG#: NWP28-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
Pesticides/PCBs SW-846 8082			ug/l	ug/l	
10227	PCB-1016	12674-11-2	N.D.	0.082	1
10227	PCB-1221	11104-28-2	N.D.	0.082	1
10227	PCB-1232	11141-16-5	N.D.	0.16	1
10227	PCB-1242	53469-21-9	N.D.	0.082	1
10227	PCB-1248	12672-29-6	N.D.	0.082	1
10227	PCB-1254	11097-69-1	N.D.	0.082	1
10227	PCB-1260	11096-82-5	N.D.	0.12	1
10227	Total PCBs	1336-36-3	N.D.	0.082	1

Sample Description: RB-018 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947125
LL Group # 1572792
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:00

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:05

Suite 103

Oakbrook IL 60523

RB18- SDG#: NWP28-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674	1
07044	Antimony	7440-36-0	N.D.	0.0051	1
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	N.D.	0.00033	1
07047	Beryllium	7440-41-7	N.D.	0.00067	1
07049	Cadmium	7440-43-9	N.D.	0.00033	1
01750	Calcium	7440-70-2	N.D.	0.0334	1
07051	Chromium	7440-47-3	N.D.	0.0013	1
07052	Cobalt	7440-48-4	0.0011 J	0.0010	1
01754	Iron	7439-89-6	N.D.	0.0334	1
01757	Magnesium	7439-95-4	N.D.	0.0167	1
07058	Manganese	7439-96-5	N.D.	0.00083	1
07061	Nickel	7440-02-0	N.D.	0.0016	1
01762	Potassium	7440-09-7	N.D.	0.133	1
01767	Sodium	7440-23-5	N.D.	0.167	1
07071	Vanadium	7440-62-2	N.D.	0.0019	1
07072	Zinc	7440-66-6	N.D.	0.0020	1
		SW-846 6020	mg/l	mg/l	
06033	Copper	7440-50-8	N.D.	0.00050	1
06035	Lead	7439-92-1	N.D.	0.000082	1
06041	Selenium	7782-49-2	N.D.	0.00050	1
06042	Silver	7440-22-4	N.D.	0.00013	1
06045	Thallium	7440-28-0	N.D.	0.00015	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	W151871AA	07/06/2015 10:45	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W151871AA	07/06/2015 10:45	Sarah A Guill	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15182WAI026	07/03/2015 16:53	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	2	15182WAI026	07/02/2015 08:30	David S Schrum	1
10227	PCBs in Water	SW-846 8082	1	151800027A	07/01/2015 03:46	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	151800027A	06/30/2015 08:10	Katheryne V Dinan	1
01743	Aluminum	SW-846 6010B	1	151811848001	07/01/2015 18:07	Suzanne M Will	1
07044	Antimony	SW-846 6010B	1	151811848001	07/01/2015 18:07	Suzanne M Will	1
07035	Arsenic	SW-846 6010B	1	151811848001	07/01/2015 18:07	Suzanne M Will	1
07046	Barium	SW-846 6010B	1	151811848001	07/01/2015 18:07	Suzanne M Will	1

Sample Description: RB-018 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947125
LL Group # 1572792
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:00

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:05

Suite 103

Oakbrook IL 60523

RB18- SDG#: NWP28-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07047	Beryllium	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
07049	Cadmium	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
01750	Calcium	SW-846 6010B	1	151811848001	07/02/2015	04:45	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
07052	Cobalt	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
01754	Iron	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
01757	Magnesium	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
07058	Manganese	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
07061	Nickel	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
01762	Potassium	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
01767	Sodium	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
07071	Vanadium	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
07072	Zinc	SW-846 6010B	1	151811848001	07/01/2015	18:07	Suzanne M Will	1
06033	Copper	SW-846 6020	1	151816050001A	07/01/2015	13:24	Choon Y Tian	1
06035	Lead	SW-846 6020	1	151816050001A	07/01/2015	13:24	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	151816050001B	07/01/2015	13:24	Choon Y Tian	1
06042	Silver	SW-846 6020	1	151816050001A	07/01/2015	13:24	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	151816050001A	07/01/2015	13:24	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	151815713003	07/01/2015	21:57	Parker D Lindstrom	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151811848001	06/30/2015	22:30	Annamaria Kuhns	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151816050001	06/30/2015	22:30	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151815713003	06/30/2015	22:30	Annamaria Kuhns	1

Sample Description: TB-062615-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947126
LL Group # 1572792
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:05

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:05

Suite 103

Oakbrook IL 60523

TBRB- SDG#: NWP28-02TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-062615-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947126
LL Group # 1572792
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:05

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 06/27/2015 09:30

Reported: 07/07/2015 13:05

TBRB- SDG#: NWP28-02TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	W151871AA	07/06/2015 20:18	Sarah A Guill	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	W151871AA	07/06/2015 20:18	Sarah A Guill	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:05

Group Number: 1572792

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: W151871AA	Sample number(s): 7947125-7947126							
Acetone	N.D.	6.	ug/l	79		55-129		
Benzene	N.D.	0.5	ug/l	101		78-120		
Bromobenzene	N.D.	1.	ug/l	99		80-120		
Bromochloromethane	N.D.	1.	ug/l	97		80-120		
Bromodichloromethane	N.D.	0.5	ug/l	93		73-120		
Bromoform	N.D.	0.5	ug/l	96		52-123		
Bromomethane	N.D.	0.5	ug/l	88		53-130		
2-Butanone	N.D.	3.	ug/l	91		54-133		
n-Butylbenzene	N.D.	1.	ug/l	98		68-120		
sec-Butylbenzene	N.D.	1.	ug/l	103		75-120		
tert-Butylbenzene	N.D.	1.	ug/l	102		80-120		
Carbon Disulfide	N.D.	1.	ug/l	84		58-126		
Carbon Tetrachloride	N.D.	0.5	ug/l	94		74-130		
Chlorobenzene	N.D.	0.5	ug/l	103		80-120		
Chloroethane	N.D.	0.5	ug/l	89		56-120		
Chloroform	N.D.	0.5	ug/l	97		80-120		
Chloromethane	N.D.	0.5	ug/l	84		63-120		
2-Chlorotoluene	N.D.	1.	ug/l	101		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	101		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	88		56-120		
Dibromochloromethane	N.D.	0.5	ug/l	97		72-120		
1,2-Dibromoethane	N.D.	0.5	ug/l	100		80-120		
Dibromomethane	N.D.	0.5	ug/l	97		80-120		
Dichlorodifluoromethane	N.D.	0.5	ug/l	75		55-127		
1,1-Dichloroethane	N.D.	0.5	ug/l	97		80-120		
1,2-Dichloroethane	N.D.	0.5	ug/l	94		72-127		
1,1-Dichloroethene	N.D.	0.5	ug/l	96		76-124		
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	100		80-120		
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	102		80-120		
1,2-Dichloropropane	N.D.	0.5	ug/l	99		80-120		
1,3-Dichloropropane	N.D.	0.5	ug/l	99		80-120		
2,2-Dichloropropane	N.D.	0.5	ug/l	97		63-131		
1,1-Dichloropropene	N.D.	1.	ug/l	95		80-126		
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	96		80-120		
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	96		76-120		
Ethylbenzene	N.D.	0.5	ug/l	102		80-120		
2-Hexanone	N.D.	3.	ug/l	91		50-131		
Isopropylbenzene	N.D.	1.	ug/l	104		80-120		
p-Isopropyltoluene	N.D.	1.	ug/l	100		76-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	100		75-120		
4-Methyl-2-pentanone	N.D.	3.	ug/l	90		51-124		
Methylene Chloride	N.D.	2.	ug/l	98		80-120		
n-Propylbenzene	N.D.	1.	ug/l	103		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:05

Group Number: 1572792

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	96		80-120		
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	99		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	95		70-120		
Tetrachloroethene	N.D.	0.5	ug/l	105		80-120		
Toluene	N.D.	0.5	ug/l	102		80-120		
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	90		69-120		
1,1,1-Trichloroethane	N.D.	0.5	ug/l	95		66-126		
1,1,2-Trichloroethane	N.D.	0.5	ug/l	96		80-120		
Trichloroethene	N.D.	0.5	ug/l	99		80-120		
Trichlorofluoromethane	N.D.	0.5	ug/l	83		58-135		
1,2,3-Trichloropropane	N.D.	1.	ug/l	98		76-120		
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	99		80-120		
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	100		80-120		
Vinyl Chloride	N.D.	0.5	ug/l	87		69-120		
m+p-Xylene	N.D.	0.5	ug/l	103		80-120		
o-Xylene	N.D.	0.5	ug/l	99		80-120		
Batch number: 15182WAI026 Sample number(s): 7947125								
Acenaphthene	N.D.	0.1	ug/l	82	83	80-112	1	30
Acenaphthylene	N.D.	0.1	ug/l	84	86	78-125	2	30
Anthracene	N.D.	0.1	ug/l	82	82	82-116	1	30
Benzidine	N.D.	20.	ug/l	67	70	21-88	5	30
Benzo(a)anthracene	N.D.	0.1	ug/l	81	79	76-122	2	30
Benzo(a)pyrene	N.D.	0.1	ug/l	80	79	73-120	1	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	79	80	75-123	1	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	91	91	70-126	0	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	83	83	74-119	0	30
Benzoic acid	N.D.	6.	ug/l	32	37	10-97	14	30
Benzyl alcohol	N.D.	10.	ug/l	84	87	54-115	4	30
4-Bromophenyl-phenylether	N.D.	0.5	ug/l	81	81	76-116	1	30
Butylbenzylphthalate	N.D.	2.	ug/l	76	77	68-119	1	30
Di-n-butylphthalate	N.D.	2.	ug/l	74	74	74-114	0	30
Carbazole	N.D.	0.5	ug/l	81	82	79-115	1	30
4-Chloro-3-methylphenol	N.D.	0.5	ug/l	85	86	73-115	2	30
4-Chloroaniline	N.D.	2.	ug/l	74	78	44-114	5	30
bis(2-Chloroethoxy)methane	N.D.	0.5	ug/l	81	83	77-115	3	30
bis(2-Chloroethyl) ether	N.D.	0.5	ug/l	81	85	78-112	5	30
2-Chloronaphthalene	N.D.	0.4	ug/l	82	84	69-112	2	30
2-Chlorophenol	N.D.	0.5	ug/l	80	80	70-111	0	30
4-Chlorophenyl-phenylether	N.D.	0.5	ug/l	82	83	76-113	1	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	ug/l	90	95	56-128	5	30
Chrysene	N.D.	0.1	ug/l	84	82	81-120	2	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	89	92	72-127	3	30
Dibenzofuran	N.D.	0.5	ug/l	83	84	81-110	0	30
1,2-Dichlorobenzene	N.D.	0.5	ug/l	77	81	65-107	6	30
1,3-Dichlorobenzene	N.D.	0.5	ug/l	72	76	58-103	6	30
1,4-Dichlorobenzene	N.D.	0.5	ug/l	76	77	56-106	2	30
3,3'-Dichlorobenzidine	N.D.	2.	ug/l	70	75	39-111	8	30
2,4-Dichlorophenol	N.D.	0.5	ug/l	83	84	74-114	1	30
Diethylphthalate	N.D.	2.	ug/l	82	81	70-118	1	30
2,4-Dimethylphenol	N.D.	0.5	ug/l	80	81	75-110	2	30
Dimethylphthalate	N.D.	2.	ug/l	82	82	43-128	0	30
4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l	89	89	53-134	1	30
2,4-Dinitrophenol	N.D.	10.	ug/l	76	76	31-129	0	30
2,4-Dinitrotoluene	N.D.	1.	ug/l	84	83	77-124	1	30
2,6-Dinitrotoluene	N.D.	0.5	ug/l	86	86	80-119	0	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:05

Group Number: 1572792

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
bis(2-Ethylhexyl) phthalate	N.D.	2.	ug/l	80	78	72-122	3	30
Fluoranthene	N.D.	0.1	ug/l	78	78	76-117	1	30
Fluorene	N.D.	0.1	ug/l	85	86	80-117	1	30
Hexachlorobenzene	N.D.	0.1	ug/l	77	78	73-118	1	30
Hexachlorobutadiene	N.D.	0.5	ug/l	65	66	42-110	2	30
Hexachlorocyclopentadiene	N.D.	5.	ug/l	52	53	10-119	2	30
Hexachloroethane	N.D.	1.	ug/l	65	69	43-108	7	30
Indeno(1,2,3-cd) pyrene	N.D.	0.1	ug/l	88	88	70-121	1	30
Isophorone	N.D.	0.5	ug/l	94	96	81-124	2	30
2-Methylnaphthalene	N.D.	0.1	ug/l	78	80	69-103	3	30
2-Methylphenol	N.D.	0.5	ug/l	83	85	66-112	2	30
4-Methylphenol	N.D.	0.5	ug/l	83	85	56-109	2	30
Naphthalene	N.D.	0.1	ug/l	81	82	75-108	1	30
2-Nitroaniline	N.D.	0.5	ug/l	81	82	71-121	2	30
3-Nitroaniline	N.D.	0.5	ug/l	78	77	58-111	1	30
4-Nitroaniline	N.D.	0.5	ug/l	68	70	66-110	2	30
Nitrobenzene	N.D.	0.5	ug/l	93	95	77-119	3	30
2-Nitrophenol	N.D.	0.5	ug/l	86	88	71-118	2	30
4-Nitrophenol	N.D.	10.	ug/l	49	49	20-89	2	30
N-Nitroso-di-n-propylamine	N.D.	0.5	ug/l	88	90	71-117	3	30
N-Nitrosodiphenylamine	N.D.	0.5	ug/l	94	94	80-115	1	30
Di-n-octylphthalate	N.D.	2.	ug/l	79	78	72-127	2	30
Pentachlorophenol	N.D.	1.	ug/l	76	74	50-121	2	30
Phenanthrene	N.D.	0.1	ug/l	81	82	81-114	1	30
Phenol	N.D.	0.5	ug/l	48	50	25-80	2	30
Pyrene	N.D.	0.1	ug/l	79	78	76-111	1	30
1,2,4-Trichlorobenzene	N.D.	0.5	ug/l	80	83	64-107	3	30
2,4,5-Trichlorophenol	N.D.	0.5	ug/l	83	86	76-116	4	30
2,4,6-Trichlorophenol	N.D.	0.5	ug/l	89	91	75-117	2	30
Batch number: 151800027A Sample number(s): 7947125								
PCB-1016	N.D.	0.080	ug/l	88	83	60-117	6	30
PCB-1221	N.D.	0.080	ug/l					
PCB-1232	N.D.	0.16	ug/l					
PCB-1242	N.D.	0.080	ug/l					
PCB-1248	N.D.	0.080	ug/l					
PCB-1254	N.D.	0.080	ug/l					
PCB-1260	N.D.	0.12	ug/l	86	84	64-134	3	30
Total PCBs	N.D.	0.080	ug/l					
Batch number: 151811848001 Sample number(s): 7947125								
Aluminum	0.0857 J	0.0674	mg/l	101		80-120		
Antimony	N.D.	0.0051	mg/l	101		80-120		
Arsenic	N.D.	0.0072	mg/l	109		80-120		
Barium	N.D.	0.00033	mg/l	110		80-120		
Beryllium	N.D.	0.00067	mg/l	110		80-120		
Cadmium	N.D.	0.00033	mg/l	107		80-120		
Calcium	0.134 J	0.0334	mg/l	105		80-120		
Chromium	N.D.	0.0013	mg/l	100		80-120		
Cobalt	N.D.	0.0010	mg/l	108		80-120		
Iron	N.D.	0.0334	mg/l	99		80-120		
Magnesium	N.D.	0.0167	mg/l	104		80-120		
Manganese	N.D.	0.00083	mg/l	109		80-120		
Nickel	N.D.	0.0016	mg/l	109		80-120		
Potassium	N.D.	0.133	mg/l	103		80-120		
Sodium	N.D.	0.167	mg/l	103		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1572792

Reported: 07/07/2015 13:05

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Vanadium	N.D.	0.0019	mg/l	104		80-120		
Zinc	N.D.	0.0020	mg/l	106		80-120		
Batch number: 151815713003	Sample number(s): 7947125							
Mercury	N.D.	0.00005	mg/l	86		80-120		
		0						
Batch number: 151816050001A	Sample number(s): 7947125							
Copper	0.00091 J	0.00050	mg/l	104		80-120		
Lead	0.00013 J	0.00008	mg/l	102		80-120		
		2						
Silver	N.D.	0.00013	mg/l	102		80-120		
Thallium	N.D.	0.00015	mg/l	105		80-120		
Batch number: 151816050001B	Sample number(s): 7947125							
Selenium	N.D.	0.00050	mg/l	104		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: W151871AA	Sample number(s): 7947125-7947126 UNSPK: P948093								
Acetone	75	86	35-144	14	30				
Benzene	109	109	72-134	0	30				
Bromobenzene	104	105	82-115	0	30				
Bromochloromethane	102	107	76-134	5	30				
Bromodichloromethane	99	97	73-125	2	30				
Bromoform	98	96	48-118	2	30				
Bromomethane	100	98	47-129	2	30				
2-Butanone	94	94	44-135	0	30				
n-Butylbenzene	107	109	74-134	1	30				
sec-Butylbenzene	115	115	74-137	1	30				
tert-Butylbenzene	111	111	81-121	1	30				
Carbon Disulfide	95	94	53-149	1	30				
Carbon Tetrachloride	109	108	75-148	1	30				
Chlorobenzene	109	110	87-124	0	30				
Chloroethane	97	98	55-130	0	30				
Chloroform	103	103	81-134	0	30				
Chloromethane	93	92	61-125	1	30				
2-Chlorotoluene	108	108	82-118	0	30				
4-Chlorotoluene	105	105	84-122	0	30				
1,2-Dibromo-3-chloropropane	87	87	50-123	0	30				
Dibromochloromethane	102	100	74-116	2	30				
1,2-Dibromoethane	103	102	77-116	0	30				
Dibromomethane	100	98	83-119	2	30				
Dichlorodifluoromethane	100	99	58-156	2	30				
1,1-Dichloroethane	106	106	84-129	0	30				
1,2-Dichloroethane	98	98	63-142	1	30				
1,1-Dichloroethene	111	110	79-137	0	30				
cis-1,2-Dichloroethene	108	109	80-141	1	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:05

Group Number: 1572792

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
trans-1,2-Dichloroethene	114	113	86-131	1	30				
1,2-Dichloropropane	106	106	83-124	0	30				
1,3-Dichloropropane	103	102	81-120	1	30				
2,2-Dichloropropane	106	108	69-135	2	30				
1,1-Dichloropropene	108	108	86-137	0	30				
cis-1,3-Dichloropropene	98	98	70-116	0	30				
trans-1,3-Dichloropropene	98	97	74-119	1	30				
Ethylbenzene	110	109	71-134	0	30				
2-Hexanone	93	91	38-131	2	30				
Isopropylbenzene	113	113	75-128	0	30				
p-Isopropyltoluene	110	109	76-123	0	30				
Methyl Tertiary Butyl Ether	102	104	72-126	1	30				
4-Methyl-2-pentanone	92	92	45-128	0	30				
Methylene Chloride	105	104	78-133	0	30				
n-Propylbenzene	111	113	74-134	1	30				
Styrene	102	101	78-125	1	30				
1,1,1,2-Tetrachloroethane	104	102	80-123	2	30				
1,1,2,2-Tetrachloroethane	98	95	72-128	3	30				
Tetrachloroethene	118	119	80-128	1	30				
Toluene	112	110	80-125	2	30				
1,2,3-Trichlorobenzene	97	98	62-133	1	30				
1,1,1-Trichloroethane	107	105	69-140	1	30				
1,1,2-Trichloroethane	103	101	71-141	3	30				
Trichloroethene	108	108	88-133	0	30				
Trichlorofluoromethane	101	100	63-163	1	30				
1,2,3-Trichloropropane	102	103	76-118	0	30				
1,2,4-Trimethylbenzene	107	107	72-130	0	30				
1,3,5-Trimethylbenzene	108	108	65-132	0	30				
Vinyl Chloride	100	100	66-133	1	30				
m+p-Xylene	112	112	79-125	1	30				
o-Xylene	108	107	79-125	1	30				

Batch number: 151811848001

Sample number(s): 7947125 UNSPK: P943334 BKG: P943334

Aluminum	106	106	75-125	0	20	N.D.	0.103 J	200* (1)	20
Antimony	104	102	75-125	1	20	N.D.	N.D.	0 (1)	20
Arsenic	114	111	75-125	2	20	N.D.	N.D.	0 (1)	20
Barium	110	108	75-125	2	20	0.0960	0.103	7	20
Beryllium	112	110	75-125	2	20	N.D.	N.D.	0 (1)	20
Cadmium	108	106	75-125	1	20	N.D.	N.D.	0 (1)	20
Calcium	173 (2)	126 (2)	75-125	2	20	80.4	87.6	9	20
Chromium	100	98	75-125	2	20	0.0015 J	N.D.	200* (1)	20
Cobalt	110	108	75-125	2	20	N.D.	N.D.	0 (1)	20
Iron	104	103	75-125	1	20	0.861	0.946	9 (1)	20
Magnesium	115	107	75-125	2	20	5.35	5.83	9	20
Manganese	110	107	75-125	2	20	0.0819	0.0888	8	20
Nickel	109	108	75-125	1	20	N.D.	0.0016 J	200* (1)	20
Potassium	109	108	75-125	1	20	2.75	2.98	8	20
Sodium	126 (2)	110 (2)	75-125	2	20	74.8	81.4	8	20
Vanadium	107	106	75-125	2	20	N.D.	N.D.	0 (1)	20
Zinc	108	107	75-125	0	20	0.0032 J	0.0032 J	2 (1)	20

Batch number: 151815713003

Sample number(s): 7947125 UNSPK: P944111 BKG: P944111

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:05

Group Number: 1572792

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Mercury	85	86	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 151816050001A	Sample number(s): 7947125 UNSPK: P944111 BKG: P944111								
Copper	103	100	75-125	3	20	N.D.	N.D.	0 (1)	20
Lead	104	104	75-125	1	20	0.00033 J	0.00036 J	10 (1)	20
Silver	102	100	75-125	1	20	N.D.	N.D.	0 (1)	20
Thallium	107	98	75-125	9	20	N.D.	N.D.	0 (1)	20
Batch number: 151816050001B	Sample number(s): 7947125 UNSPK: P944111 BKG: P944111								
Selenium	92	108	75-125	16	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: W151871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7947125	96	98	100	96
7947126	95	95	101	96
Blank	97	102	100	96
LCS	99	104	102	98
MS	99	98	103	98
MSD	99	103	103	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TCL SW846 8270D Water
Batch number: 15182WAI026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7947125	47	68	91	98	88	72
Blank	50	66	93	98	90	80
LCS	51	67	92	98	88	77
LCSD	52	67	92	101	89	74
Limits:	10-82	10-107	23-145	60-123	61-112	35-144

Analysis Name: PCBs in Water
Batch number: 151800027A

	Tetrachloro-m-xylene	Decachlorobiphenyl
7947125	101	79
Blank	95	90
LCS	93	64
LCSD	88	81
Limits:	49-141	36-153

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



380540



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1572792 Sample # 7947125-26
Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analysis Requested				For Lab Use Only																	
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Surface <input type="checkbox"/> Other: <u>Equipment blank</u>		Preservation Codes				FSC: _____																			
Project Name/#: <u>CH128417</u>		PWSID #:				<table border="1" style="width:100%; height: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center;">VOCS S260B</td> <td style="width: 25%; text-align: center;">SOCS S270D</td> <td style="width: 25%; text-align: center;">TAL Metals + Hg</td> <td style="width: 25%; text-align: center;">PCBS</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>				VOCS S260B	SOCS S270D	TAL Metals + Hg	PCBS	X	X	X	X	X	X	X	X	SCR#: _____							
VOCS S260B	SOCS S270D	TAL Metals + Hg	PCBS																										
X	X	X	X																										
X	X	X	X																										
Project Manager: <u>Dave Huczycki</u>		P.O. #:		<table border="1" style="width:100%; height: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center;">6 Remarks</th> </tr> <tr> <td colspan="4" style="height: 100px;"> </td> </tr> </table>				6 Remarks								Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other													
6 Remarks																													
Sampler: <u>Various</u>		Quote #:		Total # of Containers				Remarks																					
Name of state where samples were collected: <u>IN</u>																													
2 Sample Identification		3 Collected		Grab	Composite	Soil	Water	Other	Total # of Containers	VOCS S260B	SOCS S270D	TAL Metals + Hg	PCBS	Remarks															
Date	Time																												
<u>RB-018</u>	<u>6/26/15</u>	<u>1600</u>	X					X	8	X	X	X	X																
<u>TB-062615-RB</u>	<u>6/26/15</u>	<u>1705</u>	X				X		2	X																			
7 Turnaround Time (TAT) Requested (please circle) <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Standard</td> <td style="width: 50%; text-align: center;"> <input checked="" type="radio"/> Rush <u>5-day TAT</u> </td> </tr> </table> (Rush TAT is subject to laboratory approval and surcharge.)														Standard	<input checked="" type="radio"/> Rush <u>5-day TAT</u>	Relinquished by: <u>[Signature]</u> Date: <u>6/26/15</u> Time: <u>1800</u>		Received by: <u>[Signature]</u> Date: <u>6/26/15</u> Time: <u>18:00</u>											
Standard	<input checked="" type="radio"/> Rush <u>5-day TAT</u>																												
Date results are needed: _____														Relinquished by: _____		Date: _____ Time: _____		Received by: _____		Date: _____ Time: _____									
E-mail address: <u>dhuczycki@geosyntec.com</u>														Relinquished by: _____		Date: _____ Time: _____		Received by: _____		Date: _____ Time: _____									
8 Data Package Options (circle if required) <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Type I (EPA Level 3)</td> <td style="width: 50%; text-align: center;"> <input checked="" type="radio"/> Type IV CLP SOL </td> </tr> <tr> <td>Equivalent/non-CLP</td> <td style="text-align: center;">Type VI (Raw Data Only)</td> </tr> <tr> <td>Type III (Reduced non-CLP)</td> <td style="text-align: center;">TX TRRP-13</td> </tr> <tr> <td>NYSDEC Category A or B</td> <td style="text-align: center;">MA MCP CT RCP</td> </tr> </table>														Type I (EPA Level 3)	<input checked="" type="radio"/> Type IV CLP SOL	Equivalent/non-CLP	Type VI (Raw Data Only)	Type III (Reduced non-CLP)	TX TRRP-13	NYSDEC Category A or B	MA MCP CT RCP	Relinquished by: _____		Date: _____ Time: _____		Received by: _____		Date: <u>6/26/15</u> Time: <u>930</u>	
Type I (EPA Level 3)	<input checked="" type="radio"/> Type IV CLP SOL																												
Equivalent/non-CLP	Type VI (Raw Data Only)																												
Type III (Reduced non-CLP)	TX TRRP-13																												
NYSDEC Category A or B	MA MCP CT RCP																												
EDD Required? <input checked="" type="radio"/> Yes <input type="radio"/> No If yes, format: _____														Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____															
Site-Specific QC (MS/MSD/Dup)? <input checked="" type="radio"/> Yes <input type="radio"/> No (If yes, indicate QC sample and submit triplicate sample volume.)														Temperature upon receipt <u>05-01.7°C</u>															

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 13, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/27/2015
Group Number: 1572802
PO Number: 201506111740
State of Sample Origin: IN

Client Sample Description

IDW-S-LTFS Composite Soil
IDW-S-POWER Composite Soil
IDW-S-VPPLAGEN Composite Soil

Lancaster Labs (LL) #

7947233
7947234
7947235

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC COPY TO
ELECTRONIC COPY TO

Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: IDW-S-LTFS Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7947233
LL Group # 1572802
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:35

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/13/2015 16:55

Suite 103

Oakbrook IL 60523

LTFS-

General Sample Comments

The analysis for sulfide was subcontracted to another laboratory. See attached report.

Sample Description: IDW-S-POWER Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7947234
LL Group # 1572802
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:40

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/13/2015 16:55

Suite 103

Oakbrook IL 60523

PWER-

General Sample Comments

The analysis for sulfide was subcontracted to another laboratory. See attached report.

Sample Description: IDW-S-VPPLAGEN Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7947235
LL Group # 1572802
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:45

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/13/2015 16:55

Suite 103

Oakbrook IL 60523

VPPLG

General Sample Comments

The analysis for sulfide was subcontracted to another laboratory. See attached report.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/13/2015 16:55

Group Number: 1572802

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



356424



Lancaster Laboratories Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1572802 Sample # 7747233
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analysis Requested							For Lab Use Only				
Client: <u>Geosyntec Consultants</u>		Acct. #:		Sediment <input type="checkbox"/>	Potable <input type="checkbox"/>	Ground <input type="checkbox"/>	Surface <input type="checkbox"/>	Total # of Containers	Preservation Codes							FSC: _____	SCR#: _____		
Project Name/ #: <u>CHR8417</u>		PWSID #:							Water <input type="checkbox"/>	NPDES <input type="checkbox"/>	Other: _____	TCLP organics/inorganics	Integrity	Partic filter	pH	Total cyanide	Total sulfide	Preservation Codes	
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:																H=HCl	T=Thiosulfate
Sampler: <u>Various</u>		Quote #:									N=HNO ₃	B=NaOH							
Name of state where samples were collected: <u>IN</u>				3 Grab		Composite									6 Remarks				
2 Sample Identification		Collected													Rush 5-day TAT for these samples!				
Date	Time	Grab	Composite	Soil <input checked="" type="checkbox"/>	Water	Other:													
<u>IDW-S-LTFS</u>	<u>6/26/16</u>	<u>1735</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>IDW-S-POWER</u>	<u>↓</u>	<u>1740</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
<u>IDW-S-VPPLAGEN</u>	<u>↓</u>	<u>1745</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

7 Turnaround Time (TAT) Requested (please circle)
 Standard Rush
 (Rush TAT is subject to laboratory approval and surcharge.) 5-day TAT
 Date results are needed: _____
 E-mail address: dkulczykcki@geosyntec.com

Relinquished by: <u>[Signature]</u>	Date: <u>26 Jun 16</u>	Time: <u>18:00</u>	Received by: <u>[Signature]</u>	Date: <u>6/26/16</u>	Time: <u>18:03</u>	9
Relinquished by: <u>[Signature]</u>	Date: <u>6/26/16</u>	Time: <u>18:03</u>	Received by: <u>[Signature]</u>	Date: _____	Time: _____	
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

EDD Required? Yes No
 If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No
 (If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
 UPS _____ FedEx _____ Other _____

Temperature upon receipt 25.07 °C

July 8, 2015

Ms. Kathy Binkley
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Certificate of Analysis

Project Name:	Sulfide in soil	Workorder:	2079838
Purchase Order:		Workorder ID:	Group 1572802

Dear Ms. Binkley:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, June 30, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mr. Brad W Kintzer (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.


Mr. Brad W Kintzer
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2079838 Group 1572802

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2079838001	IDW-S-LTFS	Solid	6/26/2015 17:35	6/30/2015 08:25	Collected by Client
2079838002	IDW-S-POWER	Solid	6/26/2015 17:40	6/30/2015 08:25	Collected by Client
2079838003	IDW-S-VPPLAGEN	Solid	6/26/2015 17:45	6/30/2015 08:25	Collected by Client

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

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ANALYTICAL RESULTS

Workorder: 2079838 Group 1572802

Lab ID: **2079838001**
 Sample ID: **IDW-S-LTFS**

Date Collected: 6/26/2015 17:35 Matrix: Solid
 Date Received: 6/30/2015 08:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY									
Acid Soluble Sulfide	55.6		mg/kg	24.5	SW846 9034r0-96	7/8/15 NK	7/8/15 07:30	NK	A
Moisture	18.5		%	0.1	S2540G-11		7/1/15 11:40	REA	A
Total Solids	81.5		%	0.1	S2540G-11		7/1/15 11:40	REA	A



Mr. Brad W Kintzer
 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2079838 Group 1572802

Lab ID: **2079838002** Date Collected: 6/26/2015 17:40 Matrix: Solid
Sample ID: **IDW-S-POWER** Date Received: 6/30/2015 08:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY									
Acid Soluble Sulfide	267		mg/kg	26.0	SW846 9034r0-96	7/8/15 NK	7/8/15 07:30	NK	A
Moisture	22.7		%	0.1	S2540G-11		7/1/15 11:40	REA	A
Total Solids	77.3		%	0.1	S2540G-11		7/1/15 11:40	REA	A


Mr. Brad W Kintzer
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2079838 Group 1572802

Lab ID: **2079838003**
Sample ID: **IDW-S-VPPLAGEN**

Date Collected: 6/26/2015 17:45 Matrix: Solid
Date Received: 6/30/2015 08:25

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY									
Acid Soluble Sulfide	59.3	1	mg/kg	24.7	SW846 9034r0-96	7/8/15 NK	7/8/15 07:30	NK	A
Moisture	18.6		%	0.1	S2540G-11		7/1/15 11:40	REA	A
Total Solids	81.4		%	0.1	S2540G-11		7/1/15 11:40	REA	A


Mr. Brad W Kintzer
Project Coordinator

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PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2079838003	1	IDW-S-VPPLAGEN	SW846 9034r0-96	Acid Soluble Sulfide

The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits.

ALS Environmental Laboratory Locations Across North America

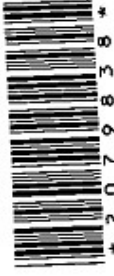
Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC # SK
ALS Q



of

Client Name: Eurofins Lancaster Laboratories, Inc. Address: 2425 New Holland Pike, Lancaster, PA 17601 Contact: Kathy Binkley Phone#: 656-2300 EXT.1393 Project Name#: Group 1572802 Bill To:		Receipt Information (completed by Receiving Lab) Cooler Temp: <u>2</u> Therm ID: <u>77291</u> No. of Coolers: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Custody Seals Present? <input checked="" type="checkbox"/> (if present) Seals Intact? <input checked="" type="checkbox"/> Received on Ice? <input checked="" type="checkbox"/> COC Labels Complete/Accurate? <input checked="" type="checkbox"/> Cont. in Good Cond.? <input checked="" type="checkbox"/> Correct Containers? <input checked="" type="checkbox"/> Correct Sample Volumes? <input checked="" type="checkbox"/> Correct Preservation? <input checked="" type="checkbox"/> Headspace/Volatiles? <input checked="" type="checkbox"/> Courier/Tracking #:	
Container Type: Container Size: Preservative:		ANALYSES/METHOD REQUESTED	
Sample Description: Location (as it will appear on the lab report)		Enter Number of Containers Per Sample or Field Results Below.	
Sample Date IDW-S-LIFS IDW-S-POWER IDW-S-VPPLAGEN	Sample Date 06/26/15 06/26/15 06/26/15	Time 17:35 17:40 17:45	Matrix SO SO SO
Project Comments: State samples collected in IN. Rush 3 Day TAT.		ALS Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment <input type="checkbox"/> Other.	
Relinquished By / Company Name Kathy Binkley / ELLE		Special Processing USACE <input type="checkbox"/> Navy <input type="checkbox"/> Reportable to PADEP? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> PWSID # _____ EDDS: Format Type _____	
Revised By / Company Name [Signature]		State Samples Collected In NY <input type="checkbox"/> NJ <input type="checkbox"/> PA <input type="checkbox"/> NC <input type="checkbox"/>	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 07, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/27/2015
Group Number: 1572803
SDG: NWP30
PO Number: 201506111740
State of Sample Origin: IN

Client Sample Description

IDW-W-PURGE Composite IDW Liquid
IDW-W-DECON Composite IDW Liquid
TB-062615-W Water

Lancaster Labs (LL)

7947236
7947237
7947238

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: IDW-W-PURGE Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947236
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:30

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:08

Suite 103

Oakbrook IL 60523

PRG-- SDG#: NWP30-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	27	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	2	0.5	1
10335	Toluene	108-88-3	0.7 J	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: IDW-W-PURGE Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947236
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:30

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Submitted: 06/27/2015 09:30

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Suite 103

Oakbrook IL 60523

PRG-- SDG#: NWP30-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	4	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	Acenaphthene	83-32-9	N.D.	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	N.D.	0.1	1
13624	Benzidine	92-87-5	N.D.	20	1
13624	Benzo(a)anthracene	56-55-3	N.D.	0.1	1
13624	Benzo(a)pyrene	50-32-8	N.D.	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.				
13624	Chrysene	218-01-9	N.D.	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: IDW-W-PURGE Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947236
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:30

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Oakbrook IL 60523

PRG-- SDG#: NWP30-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	1
13624	Fluoranthene	206-44-0	N.D.	0.1	1
13624	Fluorene	86-73-7	N.D.	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	N.D.	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	N.D.	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	N.D.	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
Pesticides/PCBs SW-846 8082			ug/l	ug/l	
10227	PCB-1016	12674-11-2	N.D.	0.082	1
10227	PCB-1221	11104-28-2	N.D.	0.082	1
10227	PCB-1232	11141-16-5	N.D.	0.16	1
10227	PCB-1242	53469-21-9	N.D.	0.082	1
10227	PCB-1248	12672-29-6	N.D.	0.082	1
10227	PCB-1254	11097-69-1	N.D.	0.082	1
10227	PCB-1260	11096-82-5	N.D.	0.12	1
10227	Total PCBs	1336-36-3	N.D.	0.082	1

Sample Description: IDW-W-PURGE Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947236
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:30

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Submitted: 06/27/2015 09:30

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Reported: 07/07/2015 13:08

Suite 103

Oakbrook IL 60523

PRG-- SDG#: NWP30-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	0.801	0.00033	1
07049	Cadmium	7440-43-9	0.00047 J	0.00033	1
07051	Chromium	7440-47-3	0.0016 J	0.0013	1
07055	Lead	7439-92-1	N.D.	0.0047	1
07036	Selenium	7782-49-2	N.D.	0.0048	1
07066	Silver	7440-22-4	N.D.	0.0018	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry		SW-846 1010A	Degrees F	Degrees F	
00430	Flash Point	n.a.	No Flash Observed	50	1
No flash observed below 153F. Test flame extinguished at 133F. Flash point was determined using Pensky Martens closed cup apparatus.					
		SW-846 9040B	Std. Units	Std. Units	
12152	pH	n.a.	7.7	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151871AA	07/06/2015 18:27	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151871AA	07/06/2015 18:27	Linda C Pape	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15182WAI026	07/03/2015 17:22	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	2	15182WAI026	07/02/2015 08:30	David S Schrum	1
10227	PCBs in Water	SW-846 8082	1	151800027A	07/01/2015 03:58	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	151800027A	06/30/2015 08:10	Katheryne V Dinan	1
07035	Arsenic	SW-846 6010B	1	151811848001	07/01/2015 18:10	Suzanne M Will	1
07046	Barium	SW-846 6010B	1	151811848001	07/01/2015 18:10	Suzanne M Will	1
07049	Cadmium	SW-846 6010B	1	151811848001	07/01/2015 18:10	Suzanne M Will	1
07051	Chromium	SW-846 6010B	1	151811848001	07/01/2015 18:10	Suzanne M Will	1
07055	Lead	SW-846 6010B	1	151811848001	07/01/2015 18:10	Suzanne M Will	1
07036	Selenium	SW-846 6010B	1	151811848001	07/02/2015 04:48	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	151811848001	07/01/2015 18:10	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	151815713003	07/01/2015 22:00	Parker D Lindstrom	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151811848001	06/30/2015 22:30	Annamaria Kuhns	1

Sample Description: IDW-W-PURGE Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947236
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

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PRG-- SDG#: NWP30-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	151815713003	06/30/2015 22:30	Annamaria Kuhns	1
00430	Flash Point	SW-846 1010A	1	15182043001A	07/01/2015 11:02	Susan A Engle	1
12152	pH	SW-846 9040B	1	15180003205A	06/29/2015 23:29	Michele L Graham	1

Sample Description: IDW-W-DECON Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947237
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:55

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Submitted: 06/27/2015 09:30

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Suite 103

Oakbrook IL 60523

DECN- SDG#: NWP30-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	11 J	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	1	0.5	1
10335	Toluene	108-88-3	2	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: IDW-W-DECON Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947237
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:55

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:08

Suite 103

Oakbrook IL 60523

DECN- SDG#: NWP30-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B ug/l					
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	0.9 J	0.5	1
GC/MS Semivolatiles SW-846 8270D ug/l					
13624	Acenaphthene	83-32-9	0.2 J	0.1	1
13624	Acenaphthylene	208-96-8	N.D.	0.1	1
13624	Anthracene	120-12-7	0.1 J	0.1	1
13624	Benzidine	92-87-5	N.D.	21	1
13624	Benzo(a)anthracene	56-55-3	0.2 J	0.1	1
13624	Benzo(a)pyrene	50-32-8	0.3 J	0.1	1
13624	Benzo(b)fluoranthene	205-99-2	0.3 J	0.1	1
13624	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	1
13624	Benzo(k)fluoranthene	207-08-9	0.2 J	0.1	1
13624	Benzoic acid	65-85-0	N.D.	6	1
13624	Benzyl alcohol	100-51-6	N.D.	10	1
13624	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1
13624	Butylbenzylphthalate	85-68-7	N.D.	2	1
13624	Di-n-butylphthalate	84-74-2	N.D.	2	1
13624	Carbazole	86-74-8	N.D.	0.5	1
13624	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1
13624	4-Chloroaniline	106-47-8	N.D.	2	1
13624	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1
13624	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1
13624	2-Chloronaphthalene	91-58-7	N.D.	0.4	1
13624	2-Chlorophenol	95-57-8	N.D.	0.5	1
13624	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
13624	Chrysene	218-01-9	0.4 J	0.1	1
13624	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	1
13624	Dibenzofuran	132-64-9	N.D.	0.5	1
13624	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1
13624	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1
13624	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1
13624	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	1
13624	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1
13624	Diethylphthalate	84-66-2	N.D.	2	1
13624	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1
13624	Dimethylphthalate	131-11-3	N.D.	2	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	1

Sample Description: IDW-W-DECON Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947237
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:55

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:08

Suite 103

Oakbrook IL 60523

DECN- SDG#: NWP30-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	
13624	2,4-Dinitrophenol	51-28-5	N.D.	10	1
13624	2,4-Dinitrotoluene	121-14-2	N.D.	1	1
13624	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	3 J	2	1
13624	Fluoranthene	206-44-0	0.6	0.1	1
13624	Fluorene	86-73-7	0.2 J	0.1	1
13624	Hexachlorobenzene	118-74-1	N.D.	0.1	1
13624	Hexachlorobutadiene	87-68-3	N.D.	0.5	1
13624	Hexachlorocyclopentadiene	77-47-4	N.D.	5	1
13624	Hexachloroethane	67-72-1	N.D.	1	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.2 J	0.1	1
13624	Isophorone	78-59-1	N.D.	0.5	1
13624	2-Methylnaphthalene	91-57-6	0.3 J	0.1	1
13624	2-Methylphenol	95-48-7	N.D.	0.5	1
13624	4-Methylphenol	106-44-5	N.D.	0.5	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
13624	Naphthalene	91-20-3	N.D.	0.1	1
13624	2-Nitroaniline	88-74-4	N.D.	0.5	1
13624	3-Nitroaniline	99-09-2	N.D.	0.5	1
13624	4-Nitroaniline	100-01-6	N.D.	0.5	1
13624	Nitrobenzene	98-95-3	N.D.	0.5	1
13624	2-Nitrophenol	88-75-5	N.D.	0.5	1
13624	4-Nitrophenol	100-02-7	N.D.	10	1
13624	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1
13624	N-Nitrosodiphenylamine	86-30-6	0.8 J	0.5	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
13624	Di-n-octylphthalate	117-84-0	N.D.	2	1
13624	Pentachlorophenol	87-86-5	N.D.	1	1
13624	Phenanthrene	85-01-8	0.3 J	0.1	1
13624	Phenol	108-95-2	N.D.	0.5	1
13624	Pyrene	129-00-0	0.5	0.1	1
13624	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1
13624	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1
13624	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1
Pesticides/PCBs SW-846 8082			ug/l	ug/l	
10227	PCB-1016	12674-11-2	N.D.	0.084	1
10227	PCB-1221	11104-28-2	N.D.	0.084	1
10227	PCB-1232	11141-16-5	N.D.	0.17	1
10227	PCB-1242	53469-21-9	N.D.	0.084	1
10227	PCB-1248	12672-29-6	N.D.	0.084	1
10227	PCB-1254	11097-69-1	N.D.	0.084	1
10227	PCB-1260	11096-82-5	N.D.	0.13	1
10227	Total PCBs	1336-36-3	N.D.	0.084	1

Sample Description: IDW-W-DECON Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947237
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:55

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:08

Suite 103

Oakbrook IL 60523

DECN- SDG#: NWP30-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals		SW-846 6010B	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0243	0.0072	1
07046	Barium	7440-39-3	0.405	0.00033	1
07049	Cadmium	7440-43-9	0.0012 J	0.00033	1
07051	Chromium	7440-47-3	0.0314	0.0013	1
07055	Lead	7439-92-1	0.263	0.0047	1
07036	Selenium	7782-49-2	0.0078 J	0.0048	1
07066	Silver	7440-22-4	N.D.	0.0018	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry		SW-846 1010A	Degrees F	Degrees F	
00430	Flash Point	n.a.	No Flash Observed	50	1
No flash observed below 151F. Test flame extinguished at 125F. Flash point was determined using Pensky Martens closed cup apparatus.					
		SW-846 9040B	Std. Units	Std. Units	
12152	pH	n.a.	8.4	0.010	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCS- 5ml Water by 8260B	SW-846 8260B	1	T151871AA	07/06/2015 18:50	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151871AA	07/06/2015 18:50	Linda C Pape	1
13624	TCL SW846 8270D Water	SW-846 8270D	1	15182WAI026	07/03/2015 17:52	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	2	15182WAI026	07/02/2015 08:30	David S Schrum	1
10227	PCBs in Water	SW-846 8082	1	151800027A	07/01/2015 04:09	Monica M Souders	1
11117	PCB Waters Extraction	SW-846 3510C	1	151800027A	06/30/2015 08:10	Katherlyne V Dinan	1
07035	Arsenic	SW-846 6010B	1	151811848001	07/01/2015 18:13	Suzanne M Will	1
07046	Barium	SW-846 6010B	1	151811848001	07/01/2015 18:13	Suzanne M Will	1
07049	Cadmium	SW-846 6010B	1	151811848001	07/01/2015 18:13	Suzanne M Will	1
07051	Chromium	SW-846 6010B	1	151811848001	07/01/2015 18:13	Suzanne M Will	1
07055	Lead	SW-846 6010B	1	151811848001	07/01/2015 18:13	Suzanne M Will	1
07036	Selenium	SW-846 6010B	1	151811848001	07/02/2015 04:51	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	151811848001	07/01/2015 18:13	Suzanne M Will	1
00259	Mercury	SW-846 7470A	1	151815713003	07/01/2015 22:02	Parker D Lindstrom	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	151811848001	06/30/2015 22:30	Annamaria Kuhns	1

Sample Description: IDW-W-DECON Composite IDW Liquid
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947237
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 16:55

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1420 Kensington Road

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Oakbrook IL 60523

DECN- SDG#: NWP30-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05713	WW SW846 Hg Digest	SW-846 7470A	1	151815713003	06/30/2015 22:30	Annamaria Kuhns	1
00430	Flash Point	SW-846 1010A	1	15182043001A	07/01/2015 11:02	Susan A Engle	1
12152	pH	SW-846 9040B	1	15180003205A	06/29/2015 23:33	Michele L Graham	1

Sample Description: TB-062615-W Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947238
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:15

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:08

Suite 103

Oakbrook IL 60523

TBW-- SDG#: NWP30-03TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
10335	Acetone	67-64-1	N.D.	6	1
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Bromobenzene	108-86-1	N.D.	1	1
10335	Bromochloromethane	74-97-5	N.D.	1	1
10335	Bromodichloromethane	75-27-4	N.D.	0.5	1
10335	Bromoform	75-25-2	N.D.	0.5	1
10335	Bromomethane	74-83-9	N.D.	0.5	1
10335	2-Butanone	78-93-3	N.D.	3	1
10335	n-Butylbenzene	104-51-8	N.D.	1	1
10335	sec-Butylbenzene	135-98-8	N.D.	1	1
10335	tert-Butylbenzene	98-06-6	N.D.	1	1
10335	Carbon Disulfide	75-15-0	N.D.	1	1
10335	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10335	Chlorobenzene	108-90-7	N.D.	0.5	1
10335	Chloroethane	75-00-3	N.D.	0.5	1
10335	Chloroform	67-66-3	N.D.	0.5	1
10335	Chloromethane	74-87-3	N.D.	0.5	1
10335	2-Chlorotoluene	95-49-8	N.D.	1	1
10335	4-Chlorotoluene	106-43-4	N.D.	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	1
10335	Dibromochloromethane	124-48-1	N.D.	0.5	1
10335	1,2-Dibromoethane	106-93-4	N.D.	0.5	1
10335	Dibromomethane	74-95-3	N.D.	0.5	1
10335	Dichlorodifluoromethane	75-71-8	N.D.	0.5	1
10335	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10335	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10335	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10335	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	1
10335	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10335	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10335	1,3-Dichloropropane	142-28-9	N.D.	0.5	1
10335	2,2-Dichloropropane	594-20-7	N.D.	0.5	1
10335	1,1-Dichloropropene	563-58-6	N.D.	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10335	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	2-Hexanone	591-78-6	N.D.	3	1
10335	Isopropylbenzene	98-82-8	N.D.	1	1
10335	p-Isopropyltoluene	99-87-6	N.D.	1	1
10335	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10335	4-Methyl-2-pentanone	108-10-1	N.D.	3	1
10335	Methylene Chloride	75-09-2	N.D.	2	1
10335	n-Propylbenzene	103-65-1	N.D.	1	1
10335	Styrene	100-42-5	N.D.	1	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.5	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10335	Tetrachloroethene	127-18-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	1
10335	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1

Sample Description: TB-062615-W Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7947238
LL Group # 1572803
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:15

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/07/2015 13:08

Suite 103

Oakbrook IL 60523

TBW-- SDG#: NWP30-03TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10335	Trichloroethene	79-01-6	N.D.	0.5	1
10335	Trichlorofluoromethane	75-69-4	N.D.	0.5	1
10335	1,2,3-Trichloropropane	96-18-4	N.D.	1	1
10335	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	1
10335	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	1
10335	Vinyl Chloride	75-01-4	N.D.	0.5	1
10335	m+p-Xylene	179601-23-1	N.D.	0.5	1
10335	o-Xylene	95-47-6	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	VOCs- 5ml Water by 8260B	SW-846 8260B	1	T151871AA	07/06/2015 19:14	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	T151871AA	07/06/2015 19:14	Linda C Pape	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:08

Group Number: 1572803

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: T151871AA	Sample number(s): 7947236-7947238							
Acetone	N.D.	6.	ug/l	101	103	55-129	2	30
Benzene	N.D.	0.5	ug/l	102	102	78-120	0	30
Bromobenzene	N.D.	1.	ug/l	101	99	80-120	2	30
Bromochloromethane	N.D.	1.	ug/l	103	101	80-120	3	30
Bromodichloromethane	N.D.	0.5	ug/l	104	103	73-120	1	30
Bromoform	N.D.	0.5	ug/l	97	97	52-123	1	30
Bromomethane	N.D.	0.5	ug/l	106	104	53-130	1	30
2-Butanone	N.D.	3.	ug/l	100	99	54-133	2	30
n-Butylbenzene	N.D.	1.	ug/l	101	113	68-120	10	30
sec-Butylbenzene	N.D.	1.	ug/l	101	104	75-120	3	30
tert-Butylbenzene	N.D.	1.	ug/l	104	108	80-120	4	30
Carbon Disulfide	N.D.	1.	ug/l	87	88	58-126	1	30
Carbon Tetrachloride	N.D.	0.5	ug/l	110	111	74-130	1	30
Chlorobenzene	N.D.	0.5	ug/l	104	105	80-120	1	30
Chloroethane	N.D.	0.5	ug/l	101	102	56-120	1	30
Chloroform	N.D.	0.5	ug/l	107	105	80-120	2	30
Chloromethane	N.D.	0.5	ug/l	99	100	63-120	1	30
2-Chlorotoluene	N.D.	1.	ug/l	102	107	80-120	5	30
4-Chlorotoluene	N.D.	1.	ug/l	102	107	80-120	5	30
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	98	98	56-120	1	30
Dibromochloromethane	N.D.	0.5	ug/l	104	106	72-120	2	30
1,2-Dibromoethane	N.D.	0.5	ug/l	104	104	80-120	0	30
Dibromomethane	N.D.	0.5	ug/l	108	107	80-120	0	30
Dichlorodifluoromethane	N.D.	0.5	ug/l	94	95	55-127	1	30
1,1-Dichloroethane	N.D.	0.5	ug/l	113	112	80-120	0	30
1,2-Dichloroethane	N.D.	0.5	ug/l	115	114	72-127	1	30
1,1-Dichloroethene	N.D.	0.5	ug/l	105	104	76-124	1	30
cis-1,2-Dichloroethene	N.D.	0.5	ug/l	107	108	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.5	ug/l	109	110	80-120	1	30
1,2-Dichloropropane	N.D.	0.5	ug/l	115	115	80-120	0	30
1,3-Dichloropropane	N.D.	0.5	ug/l	101	105	80-120	4	30
2,2-Dichloropropane	N.D.	0.5	ug/l	107	107	63-131	0	30
1,1-Dichloropropene	N.D.	1.	ug/l	97	99	80-126	2	30
cis-1,3-Dichloropropene	N.D.	0.5	ug/l	100	100	80-120	0	30
trans-1,3-Dichloropropene	N.D.	0.5	ug/l	107	110	76-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	116	119	80-120	3	30
2-Hexanone	N.D.	3.	ug/l	107	108	50-131	1	30
Isopropylbenzene	N.D.	1.	ug/l	107	108	80-120	1	30
p-Isopropyltoluene	N.D.	1.	ug/l	100	103	76-120	3	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	99	101	75-120	2	30
4-Methyl-2-pentanone	N.D.	3.	ug/l	100	100	51-124	0	30
Methylene Chloride	N.D.	2.	ug/l	102	104	80-120	1	30
n-Propylbenzene	N.D.	1.	ug/l	112	115	80-120	3	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:08

Group Number: 1572803

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Styrene	N.D.	1.	ug/l	103	109	80-120	6	30
1,1,1,2-Tetrachloroethane	N.D.	0.5	ug/l	112	113	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.5	ug/l	99	102	70-120	2	30
Tetrachloroethene	N.D.	0.5	ug/l	110	111	80-120	1	30
Toluene	N.D.	0.5	ug/l	111	115	80-120	4	30
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	93	96	69-120	3	30
1,1,1-Trichloroethane	N.D.	0.5	ug/l	97	99	66-126	2	30
1,1,2-Trichloroethane	N.D.	0.5	ug/l	107	106	80-120	1	30
Trichloroethene	N.D.	0.5	ug/l	110	108	80-120	1	30
Trichlorofluoromethane	N.D.	0.5	ug/l	103	104	58-135	1	30
1,2,3-Trichloropropane	N.D.	1.	ug/l	103	105	76-120	2	30
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	105	108	80-120	3	30
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	102	107	80-120	5	30
Vinyl Chloride	N.D.	0.5	ug/l	107	110	69-120	3	30
m+p-Xylene	N.D.	0.5	ug/l	109	109	80-120	0	30
o-Xylene	N.D.	0.5	ug/l	104	106	80-120	1	30

Batch number: 15182WAI026	Sample number (s): 7947236-7947237							
Acenaphthene	N.D.	0.1	ug/l	82	83	80-112	1	30
Acenaphthylene	N.D.	0.1	ug/l	84	86	78-125	2	30
Anthracene	N.D.	0.1	ug/l	82	82	82-116	1	30
Benzidine	N.D.	20.	ug/l	67	70	21-88	5	30
Benzo(a)anthracene	N.D.	0.1	ug/l	81	79	76-122	2	30
Benzo(a)pyrene	N.D.	0.1	ug/l	80	79	73-120	1	30
Benzo(b)fluoranthene	N.D.	0.1	ug/l	79	80	75-123	1	30
Benzo(g,h,i)perylene	N.D.	0.1	ug/l	91	91	70-126	0	30
Benzo(k)fluoranthene	N.D.	0.1	ug/l	83	83	74-119	0	30
Benzoic acid	N.D.	6.	ug/l	32	37	10-97	14	30
Benzyl alcohol	N.D.	10.	ug/l	84	87	54-115	4	30
4-Bromophenyl-phenylether	N.D.	0.5	ug/l	81	81	76-116	1	30
Butylbenzylphthalate	N.D.	2.	ug/l	76	77	68-119	1	30
Di-n-butylphthalate	N.D.	2.	ug/l	74	74	74-114	0	30
Carbazole	N.D.	0.5	ug/l	81	82	79-115	1	30
4-Chloro-3-methylphenol	N.D.	0.5	ug/l	85	86	73-115	2	30
4-Chloroaniline	N.D.	2.	ug/l	74	78	44-114	5	30
bis(2-Chloroethoxy)methane	N.D.	0.5	ug/l	81	83	77-115	3	30
bis(2-Chloroethyl) ether	N.D.	0.5	ug/l	81	85	78-112	5	30
2-Chloronaphthalene	N.D.	0.4	ug/l	82	84	69-112	2	30
2-Chlorophenol	N.D.	0.5	ug/l	80	80	70-111	0	30
4-Chlorophenyl-phenylether	N.D.	0.5	ug/l	82	83	76-113	1	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	ug/l	90	95	56-128	5	30
Chrysene	N.D.	0.1	ug/l	84	82	81-120	2	30
Dibenz(a,h)anthracene	N.D.	0.1	ug/l	89	92	72-127	3	30
Dibenzofuran	N.D.	0.5	ug/l	83	84	81-110	0	30
1,2-Dichlorobenzene	N.D.	0.5	ug/l	77	81	65-107	6	30
1,3-Dichlorobenzene	N.D.	0.5	ug/l	72	76	58-103	6	30
1,4-Dichlorobenzene	N.D.	0.5	ug/l	76	77	56-106	2	30
3,3'-Dichlorobenzidine	N.D.	2.	ug/l	70	75	39-111	8	30
2,4-Dichlorophenol	N.D.	0.5	ug/l	83	84	74-114	1	30
Diethylphthalate	N.D.	2.	ug/l	82	81	70-118	1	30
2,4-Dimethylphenol	N.D.	0.5	ug/l	80	81	75-110	2	30
Dimethylphthalate	N.D.	2.	ug/l	82	82	43-128	0	30
4,6-Dinitro-2-methylphenol	N.D.	5.	ug/l	89	89	53-134	1	30
2,4-Dinitrophenol	N.D.	10.	ug/l	76	76	31-129	0	30
2,4-Dinitrotoluene	N.D.	1.	ug/l	84	83	77-124	1	30
2,6-Dinitrotoluene	N.D.	0.5	ug/l	86	86	80-119	0	30

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:08

Group Number: 1572803

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
bis(2-Ethylhexyl) phthalate	N.D.	2.	ug/l	80	78	72-122	3	30
Fluoranthene	N.D.	0.1	ug/l	78	78	76-117	1	30
Fluorene	N.D.	0.1	ug/l	85	86	80-117	1	30
Hexachlorobenzene	N.D.	0.1	ug/l	77	78	73-118	1	30
Hexachlorobutadiene	N.D.	0.5	ug/l	65	66	42-110	2	30
Hexachlorocyclopentadiene	N.D.	5.	ug/l	52	53	10-119	2	30
Hexachloroethane	N.D.	1.	ug/l	65	69	43-108	7	30
Indeno(1,2,3-cd) pyrene	N.D.	0.1	ug/l	88	88	70-121	1	30
Isophorone	N.D.	0.5	ug/l	94	96	81-124	2	30
2-Methylnaphthalene	N.D.	0.1	ug/l	78	80	69-103	3	30
2-Methylphenol	N.D.	0.5	ug/l	83	85	66-112	2	30
4-Methylphenol	N.D.	0.5	ug/l	83	85	56-109	2	30
Naphthalene	N.D.	0.1	ug/l	81	82	75-108	1	30
2-Nitroaniline	N.D.	0.5	ug/l	81	82	71-121	2	30
3-Nitroaniline	N.D.	0.5	ug/l	78	77	58-111	1	30
4-Nitroaniline	N.D.	0.5	ug/l	68	70	66-110	2	30
Nitrobenzene	N.D.	0.5	ug/l	93	95	77-119	3	30
2-Nitrophenol	N.D.	0.5	ug/l	86	88	71-118	2	30
4-Nitrophenol	N.D.	10.	ug/l	49	49	20-89	2	30
N-Nitroso-di-n-propylamine	N.D.	0.5	ug/l	88	90	71-117	3	30
N-Nitrosodiphenylamine	N.D.	0.5	ug/l	94	94	80-115	1	30
Di-n-octylphthalate	N.D.	2.	ug/l	79	78	72-127	2	30
Pentachlorophenol	N.D.	1.	ug/l	76	74	50-121	2	30
Phenanthrene	N.D.	0.1	ug/l	81	82	81-114	1	30
Phenol	N.D.	0.5	ug/l	48	50	25-80	2	30
Pyrene	N.D.	0.1	ug/l	79	78	76-111	1	30
1,2,4-Trichlorobenzene	N.D.	0.5	ug/l	80	83	64-107	3	30
2,4,5-Trichlorophenol	N.D.	0.5	ug/l	83	86	76-116	4	30
2,4,6-Trichlorophenol	N.D.	0.5	ug/l	89	91	75-117	2	30

Batch number: 151800027A	Sample number(s): 7947236-7947237
PCB-1016	N.D. 0.080 ug/l 88 83 60-117 6 30
PCB-1221	N.D. 0.080 ug/l
PCB-1232	N.D. 0.16 ug/l
PCB-1242	N.D. 0.080 ug/l
PCB-1248	N.D. 0.080 ug/l
PCB-1254	N.D. 0.080 ug/l
PCB-1260	N.D. 0.12 ug/l 86 84 64-134 3 30
Total PCBs	N.D. 0.080 ug/l

Batch number: 151811848001	Sample number(s): 7947236-7947237
Arsenic	N.D. 0.0072 mg/l 109 80-120
Barium	N.D. 0.00033 mg/l 110 80-120
Cadmium	N.D. 0.00033 mg/l 107 80-120
Chromium	N.D. 0.0013 mg/l 100 80-120
Lead	N.D. 0.0047 mg/l 106 80-120
Selenium	N.D. 0.0048 mg/l 107 80-120
Silver	N.D. 0.0018 mg/l 110 80-120

Batch number: 151815713003	Sample number(s): 7947236-7947237
Mercury	N.D. 0.00005 mg/l 86 80-120
	0

Batch number: 15180003205A	Sample number(s): 7947236-7947237
pH	96 95-105

*- Outside of specification

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Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:08

Group Number: 1572803

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15182043001A	Sample number(s): 7947236-7947237							
Flash Point				102	98	97-103	4	4

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151811848001	Sample number(s): 7947236-7947237 UNSPK: P943334 BKG: P943334								
Arsenic	114	111	75-125	2	20	N.D.	N.D.	0 (1)	20
Barium	110	108	75-125	2	20	0.0960	0.103	7	20
Cadmium	108	106	75-125	1	20	N.D.	N.D.	0 (1)	20
Chromium	100	98	75-125	2	20	0.0015 J	N.D.	200* (1)	20
Lead	112	109	75-125	3	20	N.D.	N.D.	0 (1)	20
Selenium	100	98	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	109	107	75-125	2	20	N.D.	N.D.	0 (1)	20
Batch number: 151815713003	Sample number(s): 7947236-7947237 UNSPK: P944111 BKG: P944111								
Mercury	85	86	80-120	1	20	N.D.	N.D.	0 (1)	20
Batch number: 15180003205A	Sample number(s): 7947236-7947237 BKG: P944767								
pH						7.4	7.5	1	3

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml Water by 8260B
Batch number: T151871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7947236	103	100	99	97
7947237	104	100	98	97
7947238	107	99	101	96
Blank	99	99	103	99
LCS	97	99	104	105
LCSD	95	98	104	106
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TCL SW846 8270D Water
Batch number: 15182WAI026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7947236	58	68	88	98	86	73
7947237	50	67	90	99	86	65
Blank	50	66	93	98	90	80
LCS	51	67	92	98	88	77
LCSD	52	67	92	101	89	74
Limits:	10-82	10-107	23-145	60-123	61-112	35-144

*- Outside of specification

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Quality Control Summary

Client Name: Geosyntec
Reported: 07/07/2015 13:08

Group Number: 1572803

Surrogate Quality Control

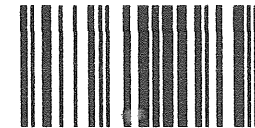
Analysis Name: PCBs in Water
Batch number: 151800027A

	Tetrachloro-m-xylene	Decachlorobiphenyl
7947236	100	73
7947237	72	28*
Blank	95	90
LCS	93	64
LCSD	88	81
Limits:	49-141	36-153

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



356423



Lancaster Laboratories Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1572803 Sample # 7947236-38
 Instructions on reverse side correspond with circled numbers.

1 Client Information				4 Matrix				5 Analysis Requested						For Lab Use Only																																
Client: <u>Geosyntec Consultants</u>		Acct. #:		Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> Tri-P <input checked="" type="checkbox"/> PDES Surface <input type="checkbox"/> Other: <u>IDW Liquid</u>		Preservation Codes						FSC: _____																																		
Project Name/ #: <u>CHR8417</u>		PWSID #:				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td> </tr> <tr> <td style="text-align:center;">VOCs</td><td style="text-align:center;">SVOCS</td><td style="text-align:center;">PCBS</td><td style="text-align:center;">PCRA Metals</td><td style="text-align:center;">Fingerprint</td><td style="text-align:center;">PH</td><td colspan="9"> </td> </tr> </table>																					VOCs	SVOCS	PCBS	PCRA Metals	Fingerprint	PH										SCR#: _____				
VOCs	SVOCS	PCBS	PCRA Metals									Fingerprint	PH																																	
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:		Soil <input type="checkbox"/> Water <input type="checkbox"/> Tri-P <input checked="" type="checkbox"/> PDES Other: <u>IDW Liquid</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td> </tr> <tr> <td style="text-align:center;">VOCs</td><td style="text-align:center;">SVOCS</td><td style="text-align:center;">PCBS</td><td style="text-align:center;">PCRA Metals</td><td style="text-align:center;">Fingerprint</td><td style="text-align:center;">PH</td><td colspan="9"> </td> </tr> </table>																					VOCs	SVOCS	PCBS	PCRA Metals	Fingerprint	PH										Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other				
VOCs	SVOCS	PCBS	PCRA Metals	Fingerprint	PH																																									
Sampler: <u>Various</u>		Quote #:		Total # of Containers <u>10</u>						6 Remarks																																				
Name of state where samples were collected: <u>IN</u>												3		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td><td style="width:5%;"> </td> </tr> <tr> <td style="text-align:center;">VOCs</td><td style="text-align:center;">SVOCS</td><td style="text-align:center;">PCBS</td><td style="text-align:center;">PCRA Metals</td><td style="text-align:center;">Fingerprint</td><td style="text-align:center;">PH</td><td colspan="9"> </td> </tr> </table>																					VOCs	SVOCS	PCBS	PCRA Metals	Fingerprint	PH						
VOCs	SVOCS	PCBS	PCRA Metals	Fingerprint	PH																																									
2 Sample Identification		Collected		Grab <input type="checkbox"/> Composite <input checked="" type="checkbox"/>	Total # of Containers <u>10</u>						VOCs <u>8260B</u> SVOCS <u>8270D</u> PCBS PCRA Metals Fingerprint PH						9																													
		Date	Time																Total # of Containers <u>10</u>						VOCs <u>8260B</u> SVOCS <u>8270D</u> PCBS PCRA Metals Fingerprint PH						9															
		<u>6/26/15</u>	<u>1630</u>																														Total # of Containers <u>10</u>						VOCs <u>8260B</u> SVOCS <u>8270D</u> PCBS PCRA Metals Fingerprint PH						9	
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<u>↓</u>	<u>175</u>	Total # of Containers <u>10</u>						VOCs <u>8260B</u> SVOCS <u>8270D</u> PCBS PCRA Metals Fingerprint PH						9																																
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 08, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/27/2015

Group Number: 1572804

SDG: NWP31

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

IDW-S-LTFS Composite Soil

IDW-S-LTFS Composite Soil

IDW-S-LTFS Composite Soil

IDW-S-POWER Composite Soil

IDW-S-POWER Composite Soil

IDW-S-POWER Composite Soil

IDW-S-VPPLAGEN Composite Soil

IDW-S-VPPLAGEN Composite Soil

IDW-S-VPPLAGEN Composite Soil

Lancaster Labs (LL)

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The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec

Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: IDW-S-LTFS Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7947239
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:35

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

LT-AR SDG#: NWP31-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	
05895	Total Cyanide (solid)	57-12-5	N.D.	0.21	1
		40 CFR 261.21			
00542	Ignitability	n.a.	See Below		1
The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.					
		SW-846 9045C modified	Std. Units	Std. Units	
00394	pH	n.a.	7.67	0.0100	1
The pH was measured in water at 19.8 C.					
		SW-846 9095B			
01820	Paint Filter Liquids Test	n.a.	Absent		1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	17.4	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	Total Cyanide (solid)	SW-846 9012B	1	15188102202A	07/08/2015 13:22	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	15188102202A	07/07/2015 21:25	James S Mathiot	1
00542	Ignitability	40 CFR 261.21	1	15188054201A	07/07/2015 01:04	Hannah M Royer	1
00394	pH	SW-846 9045C modified	1	15180039403B	06/29/2015 20:45	Luz M Groff	1
01820	Paint Filter Liquids Test	SW-846 9095B	1	15188182001A	07/07/2015 01:01	Hannah M Royer	1
00111	Moisture	SM 2540 G-1997	1	15182820010B	07/01/2015 21:40	Scott W Freisher	1

Sample Description: IDW-S-LTFS Composite Soil
LaPorte, IN TCLP NVE
Newporte Landing Development Site

LL Sample # TL 7947240
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:35

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

LT-NV SDG#: NWP31-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C	mg/l	mg/l	
00949	1,4-Dichlorobenzene	106-46-7	N.D.	0.003	1
00949	2,4-Dinitrotoluene	121-14-2	N.D.	0.005	1
00949	Hexachlorobenzene	118-74-1	N.D.	0.0005	1
00949	Hexachlorobutadiene	87-68-3	N.D.	0.003	1
00949	Hexachloroethane	67-72-1	N.D.	0.005	1
00949	2-Methylphenol	95-48-7	N.D.	0.003	1
00949	4-Methylphenol	106-44-5	N.D.	0.003	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
00949	Nitrobenzene	98-95-3	N.D.	0.003	1
00949	Pentachlorophenol	87-86-5	N.D.	0.005	1
00949	Pyridine	110-86-1	N.D.	0.010	1
00949	2,4,5-Trichlorophenol	95-95-4	N.D.	0.003	1
00949	2,4,6-Trichlorophenol	88-06-2	N.D.	0.003	1
Metals		SW-846 6010B	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	2.06	0.00033	1
07049	Cadmium	7440-43-9	0.0097	0.00033	1
07051	Chromium	7440-47-3	0.0151	0.0013	1
07055	Lead	7439-92-1	4.57	0.0047	1
07036	Selenium	7782-49-2	0.0103 J	0.0048	1
07066	Silver	7440-22-4	N.D.	0.0018	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00949	TCLP Acid Base/Neutrals	SW-846 8270C	1	15183WAF026	07/03/2015 17:28	Catherine E Bachman	1
04731	TCLP Leachate Extraction	SW-846 3510C	1	15183WAF026	07/02/2015 18:15	Nicholas W Shroyer	1
07035	Arsenic	SW-846 6010B	1	151875705002	07/07/2015 06:26	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	151875705002	07/07/2015 06:26	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	151875705002	07/07/2015 06:26	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	151875705002	07/07/2015 06:26	Joanne M Gates	1

Sample Description: IDW-S-LTFS Composite Soil
LaPorte, IN TCLP NVE
Newporte Landing Development Site

LL Sample # TL 7947240
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:35

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

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Suite 103

Oakbrook IL 60523

LT-NV SDG#: NWP31-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	151875705002	07/07/2015	06:26	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	151875705002	07/07/2015	06:26	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	151875705002	07/07/2015	06:26	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	151875713001	07/07/2015	07:53	Damary Valentin	1
05705	ICP-WW/TL, 3010A (tot) - U3	SW-846 3010A	1	151875705002	07/07/2015	23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151875713001	07/07/2015	00:20	Annamaria Kuhns	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	15182-2486-094 7A	07/01/2015	12:04	Christina A Huber	n.a.

Sample Description: IDW-S-LTFS Composite Soil
LaPorte, IN TCLP ZHE
Newporte Landing Development Site

LL Sample # TL 7947241
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:35

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

LT-ZH SDG#: NWP31-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
03636	Benzene	71-43-2	N.D.	10	20
03636	2-Butanone	78-93-3	N.D.	60	20
03636	Carbon Tetrachloride	56-23-5	N.D.	10	20
03636	Chlorobenzene	108-90-7	N.D.	10	20
03636	Chloroform	67-66-3	N.D.	10	20
03636	1,2-Dichloroethane	107-06-2	N.D.	10	20
03636	1,1-Dichloroethene	75-35-4	N.D.	10	20
03636	Tetrachloroethene	127-18-4	N.D.	10	20
03636	Trichloroethene	79-01-6	N.D.	10	20
03636	Vinyl Chloride	75-01-4	N.D.	10	20

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03636	VOCs- 5ml TCLP Water by 8260B	SW-846 8260B	1	N151873AA	07/07/2015 06:31	Christopher G Torres	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N151873AA	07/07/2015 06:31	Christopher G Torres	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	15183-482-0946	07/02/2015 14:05	Darin P Wagner	n.a.

Sample Description: IDW-S-POWER Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7947242
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:40

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

POW-R SDG#: NWP31-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry SW-846 9012B					
05895	Total Cyanide (solid)	57-12-5	N.D.	0.23	1
40 CFR 261.21					
00542	Ignitability	n.a.	See Below		1
The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.					
SW-846 9045C modified					
00394	pH	n.a.	9.59	0.0100	1
The pH was measured in water at 19.2 C.					
SW-846 9095B					
01820	Paint Filter Liquids Test	n.a.	Absent		1
Wet Chemistry SM 2540 G-1997					
00111	Moisture	n.a.	17.7	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	Total Cyanide (solid)	SW-846 9012B	1	15188102202A	07/08/2015 13:23	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	15188102202A	07/07/2015 21:25	James S Mathiot	1
00542	Ignitability	40 CFR 261.21	1	15188054201A	07/07/2015 01:04	Hannah M Royer	1
00394	pH	SW-846 9045C modified	1	15180039403B	06/29/2015 20:45	Luz M Groff	1
01820	Paint Filter Liquids Test	SW-846 9095B	1	15188182001A	07/07/2015 01:01	Hannah M Royer	1
00111	Moisture	SM 2540 G-1997	1	15182820010B	07/01/2015 21:40	Scott W Freisher	1

Sample Description: IDW-S-POWER Composite Soil
LaPorte, IN TCLP NVE
Newporte Landing Development Site

LL Sample # TL 7947243
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:40

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

POWNV SDG#: NWP31-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C	mg/l	mg/l	
00949	1,4-Dichlorobenzene	106-46-7	N.D.	0.003	1
00949	2,4-Dinitrotoluene	121-14-2	N.D.	0.005	1
00949	Hexachlorobenzene	118-74-1	N.D.	0.0005	1
00949	Hexachlorobutadiene	87-68-3	N.D.	0.003	1
00949	Hexachloroethane	67-72-1	N.D.	0.005	1
00949	2-Methylphenol	95-48-7	N.D.	0.003	1
00949	4-Methylphenol	106-44-5	N.D.	0.003	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
00949	Nitrobenzene	98-95-3	N.D.	0.003	1
00949	Pentachlorophenol	87-86-5	N.D.	0.005	1
00949	Pyridine	110-86-1	N.D.	0.010	1
00949	2,4,5-Trichlorophenol	95-95-4	N.D.	0.003	1
00949	2,4,6-Trichlorophenol	88-06-2	N.D.	0.003	1
Metals		SW-846 6010B	mg/l	mg/l	
07035	Arsenic	7440-38-2	N.D.	0.0072	1
07046	Barium	7440-39-3	1.10	0.00033	1
07049	Cadmium	7440-43-9	0.0019 J	0.00033	1
07051	Chromium	7440-47-3	0.0038 J	0.0013	1
07055	Lead	7439-92-1	1.08	0.0047	1
07036	Selenium	7782-49-2	0.0077 J	0.0048	1
07066	Silver	7440-22-4	N.D.	0.0018	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00949	TCLP Acid Base/Neutrals	SW-846 8270C	1	15183WAF026	07/03/2015 17:54	Catherine E Bachman	1
04731	TCLP Leachate Extraction	SW-846 3510C	1	15183WAF026	07/02/2015 18:15	Nicholas W Shroyer	1
07035	Arsenic	SW-846 6010B	1	151875705002	07/07/2015 06:04	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	151875705002	07/07/2015 06:04	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	151875705002	07/07/2015 06:04	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	151875705002	07/07/2015 06:04	Joanne M Gates	1

Sample Description: IDW-S-POWER Composite Soil
LaPorte, IN TCLP NVE
Newporte Landing Development Site

LL Sample # TL 7947243
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:40

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

POWNV SDG#: NWP31-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	151875705002	07/07/2015	06:04	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	151875705002	07/07/2015	06:04	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	151875705002	07/07/2015	06:04	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	151875713001	07/07/2015	08:02	Damary Valentin	1
05705	ICP-WW/TL, 3010A (tot) - U3	SW-846 3010A	1	151875705002	07/07/2015	23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151875713001	07/07/2015	00:20	Annamaria Kuhns	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	15182-2486-094 7A	07/01/2015	12:04	Christina A Huber	n.a.

Sample Description: IDW-S-POWER Composite Soil
LaPorte, IN TCLP ZHE
Newporte Landing Development Site

LL Sample # TL 7947244
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:40

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

POWZH SDG#: NWP31-06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
03636	Benzene	71-43-2	N.D.	10	20
03636	2-Butanone	78-93-3	N.D.	60	20
03636	Carbon Tetrachloride	56-23-5	N.D.	10	20
03636	Chlorobenzene	108-90-7	N.D.	10	20
03636	Chloroform	67-66-3	N.D.	10	20
03636	1,2-Dichloroethane	107-06-2	N.D.	10	20
03636	1,1-Dichloroethene	75-35-4	N.D.	10	20
03636	Tetrachloroethene	127-18-4	N.D.	10	20
03636	Trichloroethene	79-01-6	N.D.	10	20
03636	Vinyl Chloride	75-01-4	N.D.	10	20

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03636	VOCs- 5ml TCLP Water by 8260B	SW-846 8260B	1	N151873AA	07/07/2015 07:41	Christopher G Torres	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N151873AA	07/07/2015 07:41	Christopher G Torres	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	15183-482-0946	07/02/2015 14:05	Darin P Wagner	n.a.

Sample Description: IDW-S-VPPLAGEN Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7947245
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:45

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

VPP-A SDG#: NWP31-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	
05895	Total Cyanide (solid)	57-12-5	N.D.	0.20	1
		40 CFR 261.21			
00542	Ignitability	n.a.	See Below		1
The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.					
		SW-846 9045C modified	Std. Units	Std. Units	
00394	pH	n.a.	10.4 J	0.0100	1
The pH was measured in water at 19.3 C.					
		SW-846 9095B			
01820	Paint Filter Liquids Test	n.a.	Absent		1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	17.0	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05895	Total Cyanide (solid)	SW-846 9012B	1	15188102202A	07/08/2015 13:24	Joseph E McKenzie	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	15188102202A	07/07/2015 21:25	James S Mathiot	1
00542	Ignitability	40 CFR 261.21	1	15188054201A	07/07/2015 01:04	Hannah M Royer	1
00394	pH	SW-846 9045C modified	1	15180039403B	06/29/2015 20:45	Luz M Groff	1
01820	Paint Filter Liquids Test	SW-846 9095B	1	15188182001A	07/07/2015 01:01	Hannah M Royer	1
00111	Moisture	SM 2540 G-1997	1	15182820010B	07/01/2015 21:40	Scott W Freisher	1

Sample Description: IDW-S-VPPLAGEN Composite Soil
LaPorte, IN TCLP NVE
Newporte Landing Development Site

LL Sample # TL 7947246
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:45

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

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Oakbrook IL 60523

VPP-N SDG#: NWP31-08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C	mg/l	mg/l	
00949	1,4-Dichlorobenzene	106-46-7	N.D.	0.003	1
00949	2,4-Dinitrotoluene	121-14-2	N.D.	0.005	1
00949	Hexachlorobenzene	118-74-1	N.D.	0.0005	1
00949	Hexachlorobutadiene	87-68-3	N.D.	0.003	1
00949	Hexachloroethane	67-72-1	N.D.	0.005	1
00949	2-Methylphenol	95-48-7	N.D.	0.003	1
00949	4-Methylphenol	106-44-5	N.D.	0.003	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
00949	Nitrobenzene	98-95-3	N.D.	0.003	1
00949	Pentachlorophenol	87-86-5	N.D.	0.005	1
00949	Pyridine	110-86-1	N.D.	0.010	1
00949	2,4,5-Trichlorophenol	95-95-4	N.D.	0.003	1
00949	2,4,6-Trichlorophenol	88-06-2	N.D.	0.003	1
Metals		SW-846 6010B	mg/l	mg/l	
07035	Arsenic	7440-38-2	0.0112 J	0.0072	1
07046	Barium	7440-39-3	0.372	0.00033	1
07049	Cadmium	7440-43-9	0.0012 J	0.00033	1
07051	Chromium	7440-47-3	0.0035 J	0.0013	1
07055	Lead	7439-92-1	0.0203	0.0047	1
07036	Selenium	7782-49-2	N.D.	0.0048	1
07066	Silver	7440-22-4	N.D.	0.0018	1
		SW-846 7470A	mg/l	mg/l	
00259	Mercury	7439-97-6	N.D.	0.000050	1

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00949	TCLP Acid Base/Neutrals	SW-846 8270C	1	15183WAF026	07/03/2015 18:19	Catherine E Bachman	1
04731	TCLP Leachate Extraction	SW-846 3510C	1	15183WAF026	07/02/2015 18:15	Nicholas W Shroyer	1
07035	Arsenic	SW-846 6010B	1	151875705002	07/07/2015 06:29	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	151875705002	07/07/2015 06:29	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	151875705002	07/07/2015 06:29	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	151875705002	07/07/2015 06:29	Joanne M Gates	1

Sample Description: IDW-S-VPPLAGEN Composite Soil
LaPorte, IN TCLP NVE
Newporte Landing Development Site

LL Sample # TL 7947246
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:45

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

VPP-N SDG#: NWP31-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	151875705002	07/07/2015 06:29	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	151875705002	07/07/2015 06:29	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	151875705002	07/07/2015 06:29	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	151835713004	07/06/2015 13:47	Damary Valentin	1
05705	ICP-WW/TL, 3010A (tot) - U3	SW-846 3010A	1	151875705002	07/07/2015 23:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	151835713004	07/03/2015 12:20	Katlin N Cataldi	1
00947	TCLP Non-volatile Extraction	SW-846 1311	1	15182-2486-094 7A	07/01/2015 12:04	Christina A Huber	n.a.

Sample Description: IDW-S-VPPLAGEN Composite Soil
LaPorte, IN TCLP ZHE
Newporte Landing Development Site

LL Sample # TL 7947247
LL Group # 1572804
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:45

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/08/2015 15:43

Suite 103

Oakbrook IL 60523

VPP-Z SDG#: NWP31-09

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
03636	Benzene	71-43-2	N.D.	10	20
03636	2-Butanone	78-93-3	N.D.	60	20
03636	Carbon Tetrachloride	56-23-5	N.D.	10	20
03636	Chlorobenzene	108-90-7	N.D.	10	20
03636	Chloroform	67-66-3	N.D.	10	20
03636	1,2-Dichloroethane	107-06-2	N.D.	10	20
03636	1,1-Dichloroethene	75-35-4	N.D.	10	20
03636	Tetrachloroethene	127-18-4	N.D.	10	20
03636	Trichloroethene	79-01-6	N.D.	10	20
03636	Vinyl Chloride	75-01-4	N.D.	10	20

General Sample Comments

If the analysis is for determination of Hazardous Waste Characteristics, see Table 1 in EPA Code of Federal Regulations 40 CFR 261.24.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03636	VOCs- 5ml TCLP Water by 8260B	SW-846 8260B	1	N151881AA	07/07/2015 14:01	Linda C Pape	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	N151881AA	07/07/2015 14:01	Linda C Pape	20
00946	TCLP Zero Headspace Extraction	SW-846 1311	1	15183-482-0946	07/02/2015 14:05	Darin P Wagner	n.a.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/08/2015 15:43

Group Number: 1572804

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: N151873AA	Sample number(s): 7947241,7947244							
Benzene	N.D.	0.5	ug/l	95	95	78-120	0	30
2-Butanone	N.D.	3.	ug/l	95	97	54-133	1	30
Carbon Tetrachloride	N.D.	0.5	ug/l	93	94	74-130	1	30
Chlorobenzene	N.D.	0.5	ug/l	100	101	80-120	2	30
Chloroform	N.D.	0.5	ug/l	90	92	80-120	2	30
1,2-Dichloroethane	N.D.	0.5	ug/l	90	91	72-127	1	30
1,1-Dichloroethene	N.D.	0.5	ug/l	93	94	76-124	1	30
Tetrachloroethene	N.D.	0.5	ug/l	103	105	80-120	2	30
Trichloroethene	N.D.	0.5	ug/l	95	98	80-120	4	30
Vinyl Chloride	N.D.	0.5	ug/l	84	86	69-120	3	30
Batch number: N151881AA	Sample number(s): 7947247							
Benzene	N.D.	0.5	ug/l	94	95	78-120	1	30
2-Butanone	N.D.	3.	ug/l	97	97	54-133	0	30
Carbon Tetrachloride	N.D.	0.5	ug/l	101	101	74-130	1	30
Chlorobenzene	N.D.	0.5	ug/l	101	103	80-120	2	30
Chloroform	N.D.	0.5	ug/l	95	95	80-120	0	30
1,2-Dichloroethane	N.D.	0.5	ug/l	97	97	72-127	0	30
1,1-Dichloroethene	N.D.	0.5	ug/l	94	95	76-124	1	30
Tetrachloroethene	N.D.	0.5	ug/l	105	107	80-120	2	30
Trichloroethene	N.D.	0.5	ug/l	97	99	80-120	1	30
Vinyl Chloride	N.D.	0.5	ug/l	84	87	69-120	4	30
Batch number: 15183WAF026	Sample number(s): 7947240,7947243,7947246							
1,4-Dichlorobenzene	N.D.	0.003	mg/l	62		56-106		
2,4-Dinitrotoluene	N.D.	0.005	mg/l	98		77-124		
Hexachlorobenzene	N.D.	0.0005	mg/l	97		73-118		
Hexachlorobutadiene	N.D.	0.003	mg/l	67		42-110		
Hexachloroethane	N.D.	0.005	mg/l	59		43-108		
2-Methylphenol	N.D.	0.003	mg/l	82		66-112		
4-Methylphenol	N.D.	0.003	mg/l	71		56-109		
Nitrobenzene	N.D.	0.003	mg/l	93		77-119		
Pentachlorophenol	N.D.	0.005	mg/l	120		50-121		
Pyridine	N.D.	0.010	mg/l	41		22-96		
2,4,5-Trichlorophenol	N.D.	0.003	mg/l	96		76-116		
2,4,6-Trichlorophenol	N.D.	0.003	mg/l	98		75-117		
Batch number: 151835713004	Sample number(s): 7947246							
Mercury	N.D.	0.00005	mg/l	101		80-120		
		0						
Batch number: 151875705002	Sample number(s): 7947240,7947243,7947246							
Arsenic	N.D.	0.0072	mg/l	115		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec

Group Number: 1572804

Reported: 07/08/2015 15:43

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Barium	0.00069 J	0.00033	mg/l	96		80-120		
Cadmium	N.D.	0.00033	mg/l	99		80-120		
Chromium	N.D.	0.0013	mg/l	99		80-120		
Lead	N.D.	0.0047	mg/l	95		80-120		
Selenium	N.D.	0.0048	mg/l	117		80-120		
Silver	N.D.	0.0018	mg/l	106		80-120		
Batch number: 151875713001	Sample number(s): 7947240, 7947243							
Mercury	N.D.	0.00005	mg/l	98		80-120		
		0						
Batch number: 15188102202A	Sample number(s): 7947239, 7947242, 7947245							
Total Cyanide (solid)	N.D.	0.18	mg/kg	104		90-110		
Batch number: 15180039403B	Sample number(s): 7947239, 7947242, 7947245							
pH				100		95-105		
Batch number: 15182820010B	Sample number(s): 7947239, 7947242, 7947245							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: N151873AA	Sample number(s): 7947241, 7947244 UNSPK: 7947241								
Benzene	96	101	72-134	5	30				
2-Butanone	83	90	44-135	8	30				
Carbon Tetrachloride	109	114	75-148	5	30				
Chlorobenzene	103	107	87-124	4	30				
Chloroform	97	100	81-134	4	30				
1,2-Dichloroethane	97	101	63-142	4	30				
1,1-Dichloroethene	101	105	79-137	3	30				
Tetrachloroethene	110	115	80-128	5	30				
Trichloroethene	101	107	88-133	6	30				
Vinyl Chloride	87	92	66-133	5	30				
Batch number: N151881AA	Sample number(s): 7947247 UNSPK: P941843								
Benzene	100	101	72-134	1	30				
2-Butanone	90	92	44-135	1	30				
Carbon Tetrachloride	112	112	75-148	0	30				
Chlorobenzene	105	106	87-124	0	30				
Chloroform	99	100	81-134	1	30				
1,2-Dichloroethane	99	99	63-142	0	30				
1,1-Dichloroethene	103	105	79-137	2	30				
Tetrachloroethene	112	113	80-128	1	30				
Trichloroethene	104	108	88-133	3	30				
Vinyl Chloride	90	94	66-133	4	30				
Batch number: 15183WAF026	Sample number(s): 7947240, 7947243, 7947246 UNSPK: P950177								
1,4-Dichlorobenzene	68	65	51-108	4	30				

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/08/2015 15:43

Group Number: 1572804

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,4-Dinitrotoluene	98	101	51-145	3	30				
Hexachlorobenzene	94	98	71-119	5	30				
Hexachlorobutadiene	70	69	44-113	1	30				
Hexachloroethane	65	63	32-120	3	30				
2-Methylphenol	78	79	27-132	2	30				
4-Methylphenol	68	71	13-128	5	30				
Nitrobenzene	95	99	50-143	5	30				
Pentachlorophenol	115	118	23-140	3	30				
Pyridine	46	47	20-91	2	30				
2,4,5-Trichlorophenol	98	101	34-143	3	30				
2,4,6-Trichlorophenol	99	102	19-162	3	30				
Batch number: 151835713004	Sample number(s): 7947246 UNSPK: P940930 BKG: P940930								
Mercury	97	93	80-120	5	20	N.D.	N.D.	0 (1)	20
Batch number: 151875705002	Sample number(s): 7947240,7947243,7947246 UNSPK: 7947243 BKG: 7947243								
Arsenic	116	114	75-125	1	20	N.D.	0.0082 J	200* (1)	20
Barium	91	92	75-125	1	20	1.10	1.12	1	20
Cadmium	94	94	75-125	0	20	0.0019 J	0.0019 J	1 (1)	20
Chromium	94	95	75-125	1	20	0.0038 J	0.0033 J	15 (1)	20
Lead	81 (2)	84 (2)	75-125	0	20	1.08	1.07	1	20
Selenium	116	115	75-125	0	20	0.0077 J	0.0107 J	32* (1)	20
Silver	101	102	75-125	0	20	N.D.	N.D.	0 (1)	20
Batch number: 151875713001	Sample number(s): 7947240,7947243 UNSPK: 7947240 BKG: 7947240								
Mercury	95	91	80-120	4	20	N.D.	N.D.	0 (1)	20
Batch number: 15188102202A	Sample number(s): 7947239,7947242,7947245 UNSPK: 7947245 BKG: 7947245								
Total Cyanide (solid)	103		41-145			N.D.	N.D.	0 (1)	20
Batch number: 15180039403B	Sample number(s): 7947239,7947242,7947245 BKG: 7947245								
pH						10.4	10.5	0	3
Batch number: 15182820010B	Sample number(s): 7947239,7947242,7947245 BKG: P947152								
Moisture						6.0	6.3	5	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: VOCs- 5ml TCLP Water by 8260B
Batch number: N151873AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7947241	108	106	99	97
7947244	106	104	99	93
Blank	100	101	102	94
LCS	99	103	104	98
LCSD	98	99	104	99

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/08/2015 15:43

Group Number: 1572804

Surrogate Quality Control

MS	104	103	103	100
MSD	103	103	102	100
Limits:	80-116	77-113	80-113	78-113

Analysis Name: VOCs- 5ml TCLP Water by 8260B
Batch number: N151881AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7947247	109	105	98	92
Blank	105	106	99	92
LCS	103	103	103	100
LCSD	103	102	103	100
MS	103	103	103	101
MSD	102	102	102	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TCLP Acid Base/Neutrals
Batch number: 15183WAF026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol
7947240	89	85	91	1*	4*	34
7947243	87	83	95	2*	6*	49
7947246	89	83	89	27	47	96
Blank	84	83	92	29	50	90
LCS	87	87	93	32	54	92
MS	90	91	92	33	55	94
MSD	94	93	94	33	55	96
Limits:	60-123	61-112	35-144	10-82	10-107	23-145

*- Outside of specification

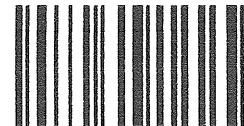
- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1572804 Sample # 7947239-80
Instructions on reverse side correspond with circled numbers.



356424

47
CML 6/27/15
(3)

1 Client Information				4 Matrix				5 Analysis Requested							For Lab Use Only				
Client: <u>Geosyntec Consultants</u>		Acct. #:		Sediment <input type="checkbox"/>	Ground <input type="checkbox"/>	Surface <input type="checkbox"/>	Total # of Containers	Preservation Codes							FSC: _____	SCR#: _____			
Project Name/#: <u>CHR8417</u>		PWSID #:						Potable <input type="checkbox"/>	NPDES <input type="checkbox"/>	Water <input type="checkbox"/>	Other: _____	TCLP organics/inorganics	Ignitability	Paint filter	pH	Total cyanide	Total sulfide	Preservation Codes	
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:																H=HCl	T=Thiosulfate
Sampler: <u>Venous</u>		Quote #:									N=HNO ₃	B=NaOH							
Name of state where samples were collected: <u>IN</u>				3 Grab Composite									S=H ₂ SO ₄		O=Other				
2 Sample Identification		Collected									6 Remarks								
		Date	Time								Rush 5-day TAT for these samples!								
<u>IDW-S-LTFS</u>		<u>6/26/15</u>	<u>1735</u>																
<u>IDW-S-POWER</u>		<u>↓</u>	<u>1740</u>																
<u>IDW-S-VPPLAGEN</u>		<u>↓</u>	<u>1745</u>																
7 Turnaround Time (TAT) Requested (please circle)		Standard		Relinquished by		Date	Time	Received by		Date	Time	9							
Rush		S-day TAT		<u>[Signature]</u>		<u>26 June</u>	<u>18:00</u>	<u>[Signature]</u>		<u>6/26/15</u>	<u>18:03</u>								
(Rush TAT is subject to laboratory approval and surcharge.)				<u>[Signature]</u>		<u>6/26/15</u>	<u>18:03</u>	<u>[Signature]</u>											
Date results are needed: _____				<u>[Signature]</u>				<u>[Signature]</u>											
E-mail address: <u>dkulczykcki@geosyntec.com</u>				<u>[Signature]</u>				<u>[Signature]</u>											
8 Data Package Options (circle if required)				<u>[Signature]</u>				<u>[Signature]</u>											
Type I (Validation/non-CLP)		Type VI (Raw Data Only)		<u>[Signature]</u>				<u>[Signature]</u>											
Type III (Reduced non-CLP)		TX TRRP-13		<u>[Signature]</u>				<u>[Signature]</u>											
Type IV (CLP SOW)		MA MCP CT RCP		<u>[Signature]</u>				<u>[Signature]</u>		<u>6/27/15</u>	<u>930</u>								
				<u>[Signature]</u>				<u>[Signature]</u>		Relinquished by Commercial Carrier:									
				<u>[Signature]</u>				<u>[Signature]</u>		UPS _____ FedEx _____ Other _____									
				<u>[Signature]</u>				<u>[Signature]</u>		Temperature upon receipt <u>0.5-0.7 °C</u>									
				<u>[Signature]</u>				<u>[Signature]</u>		EDD Required? Yes No									
				<u>[Signature]</u>				<u>[Signature]</u>		If yes, format: _____									
				<u>[Signature]</u>				<u>[Signature]</u>		Site-Specific QC (MS/MSD/Dup)? Yes No									
				<u>[Signature]</u>				<u>[Signature]</u>		(If yes, indicate QC sample and submit triplicate sample volume.)									

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
900 Broken Sound Parkway NW
Suite 200
Boca Raton FL 33487

July 08, 2015

Project: Newporte Landing Development Site

Submittal Date: 07/01/2015

Group Number: 1573551

SDG: NWP32

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

IDW-W-PURGE Grab Water
IDW-W-DECON Grab Water

Lancaster Labs (LL) #

7950950
7950951

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec
Geosyntec
Geosyntec

Attn: Brian Hitchens
Attn: Gregory Gibbons
Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: IDW-W-PURGE Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7950950
LL Group # 1573551
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 15:45

Geosyntec

Submitted: 07/01/2015 09:00

900 Broken Sound Parkway NW

Reported: 07/08/2015 09:00

Suite 200

Boca Raton FL 33487

PURGE SDG#: NWP32-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
08255	Total Cyanide (water)	SW-846 9012A 57-12-5	mg/l N.D.	mg/l 0.0050	1
01333	Sulfide	SW-846 9034 modified 18496-25-8	mg/l N.D.	mg/l 0.68	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08255	Total Cyanide (water)	SW-846 9012A	1	15188117101A	07/07/2015 19:38	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012A	1	15188117101A	07/07/2015 08:35	Nancy J Shoop	1
01333	Sulfide	SW-846 9034 modified	1	15188133301A	07/07/2015 10:45	Michele L Graham	1

Sample Description: IDW-W-DECON Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7950951
LL Group # 1573551
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 16:00

Geosyntec

Submitted: 07/01/2015 09:00

900 Broken Sound Parkway NW

Reported: 07/08/2015 09:00

Suite 200

Boca Raton FL 33487

DECON SDG#: NWP32-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry					
08255	Total Cyanide (water)	SW-846 9012A 57-12-5	mg/l N.D.	mg/l 0.0050	1
01333	Sulfide	SW-846 9034 modified 18496-25-8	mg/l N.D.	mg/l 2.7	4
Reporting limits were raised due to interference from the sample matrix.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08255	Total Cyanide (water)	SW-846 9012A	1	15188117101A	07/07/2015 19:39	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012A	1	15188117101A	07/07/2015 08:35	Nancy J Shoop	1
01333	Sulfide	SW-846 9034 modified	1	15188133301A	07/07/2015 10:45	Michele L Graham	4

Quality Control Summary

Client Name: Geosyntec
Reported: 07/08/2015 09:00

Group Number: 1573551

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 15188117101A Total Cyanide (water)	Sample number(s): 7950950-7950951 N.D.	0.0050	mg/l	95	92	90-110	4	20
Batch number: 15188133301A Sulfide	Sample number(s): 7950950-7950951 N.D.	0.68	mg/l	97	99	80-120	2	4

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 15188117101A Total Cyanide (water)	Sample number(s): 7950950-7950951 94		72-114	UNSPK: P944683		BKG: P944683 N.D.	N.D.	0 (1)	20
Batch number: 15188133301A Sulfide	Sample number(s): 7950950-7950951			BKG: P949721		2.8	2.6	7 (1)	20

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

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umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
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- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
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- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

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Measurement uncertainty values, as applicable, are available upon request.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 09, 2015

Project: Newporte Landing Development Site

Submittal Date: 07/01/2015

Group Number: 1573604

SDG: NWP33

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

RB-019 Grab Water
TB-063015-RB Water

Lancaster Labs (LL) #

7951156
7951157

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.


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Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: RB-019 Grab Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7951156
LL Group # 1573604
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 15:00

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/09/2015 14:22

Suite 103

Oakbrook IL 60523

RB019 SDG#: NWP33-01EB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/l	ug/l	
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles					
	SW-846 8015D Rev.4, June 2003		ug/l	ug/l	
10598	TPH-GRO water C6-C10	n.a.	N.D.	20	1
GC Petroleum Hydrocarbons					
	SW-846 8015D Rev.4, June 2003		ug/l	ug/l	
13163	DRO C10-C28	n.a.	N.D.	43	1
Metals					
	SW-846 6020		mg/l	mg/l	
06035	Lead	7439-92-1	N.D.	0.000082	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
10335	BTEX in Water	SW-846 8260B	1	L151891AA	07/08/2015	15:57	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L151891AA	07/08/2015	15:57	Caitlin M Carmody	1
10598	TPH-GRO water C6-C10	SW-846 8015D Rev.4, June 2003	1	15187A20A	07/06/2015	23:52	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	15187A20A	07/06/2015	23:52	Marie D Beamenderfer	1
13163	DRO 8015C/D, MicroExt.	SW-846 8015D Rev.4, June 2003	1	151870003A	07/07/2015	10:36	Christine E Dolman	1
13175	MicroExt. 3511 (8015C/D)	SW-846 3511	1	151870003A	07/06/2015	14:00	Wanda F Oswald	1
06035	Lead	SW-846 6020	1	151836050003A	07/07/2015	17:28	Deborah A Krady	1
06050	ICPMS-Water, 3020A - U3	SW-846 3020A	1	151836050003	07/07/2015	07:08	James L Mertz	1

Sample Description: TB-063015-RB Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # WW 7951157
LL Group # 1573604
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 14:30

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/09/2015 14:22

Suite 103

Oakbrook IL 60523

TB30R SDG#: NWP33-02TB

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10335	Benzene	71-43-2	N.D.	0.5	1
10335	Ethylbenzene	100-41-4	N.D.	0.5	1
10335	Toluene	108-88-3	N.D.	0.5	1
10335	Xylene (Total)	1330-20-7	N.D.	0.5	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	BTEX in Water	SW-846 8260B	1	L151891AA	07/08/2015 16:19	Caitlin M Carmody	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	L151891AA	07/08/2015 16:19	Caitlin M Carmody	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/09/2015 14:22

Group Number: 1573604

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: L151891AA	Sample number(s): 7951156-7951157							
Benzene	N.D.	0.5	ug/l	101	99	78-120	2	30
Ethylbenzene	N.D.	0.5	ug/l	102	100	80-120	2	30
Toluene	N.D.	0.5	ug/l	99	97	80-120	2	30
Xylene (Total)	N.D.	0.5	ug/l	101	99	80-120	2	30
Batch number: 15187A20A	Sample number(s): 7951156							
TPH-GRO water C6-C10	N.D.	20.	ug/l	95		80-129		
Batch number: 151870003A	Sample number(s): 7951156							
DRO C10-C28	N.D.	42.	ug/l	91	89	69-115	3	20
Batch number: 151836050003A	Sample number(s): 7951156							
Lead	N.D.	0.00008	mg/l	101		80-120		
		2						

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 15187A20A	Sample number(s): 7951156 UNSPK: P953613								
TPH-GRO water C6-C10	108	107	75-135	1	30				
Batch number: 151836050003A	Sample number(s): 7951156 UNSPK: P944111 BKG: P944111								
Lead	102	101	75-125	1	20	0.00038 J	0.00034 J	13 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX in Water
Batch number: L151891AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7951156	103	103	98	99

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/09/2015 14:22

Group Number: 1573604

Surrogate Quality Control

7951157	102	101	98	99
Blank	106	102	97	100
LCS	106	102	98	102
LCSD	106	100	98	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO water C6-C10
Batch number: 15187A20A
Trifluorotoluene-F

7951156	93
Blank	92
LCS	103
MS	101
MSD	101
Limits:	63-135

Analysis Name: DRO 8015C/D, MicroExt.
Batch number: 151870003A
Orthoterphenyl

7951156	115
Blank	115
LCS	107
LCSD	106
Limits:	42-160

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



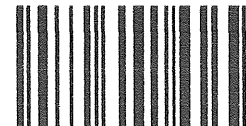
Lancaster Laboratories
Environmental

Acct. # 20448

For Eurofins Lancaster Laboratories Environmental use only

Group # 1573604 Sample # 795456-57

Instructions on reverse side correspond with circled numbers.



356429

1 Client Information				4 Matrix				5 Analysis Requested										For Lab Use Only	
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Equipment Blank</u>		Preservation Codes VOCs 8260B (BTEX only) SVOCs 4270A JS 30 Jun 2015 MA 15 30 Jun 2015 PBB JS 30 Jun 2015 TPAH GRO + DRO Total Lead										FSC: _____			
Project Name/#: <u>CHR 8417</u>		PWSID #:				SCR#: _____													
Project Manager: <u>Dave Kulczykcki</u>		P.O. #:				Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other													
Sampler: <u>Various</u>		Quote #:				6 Remarks													
Name of state where samples were collected: <u>IN</u>				3															
2 Sample Identification		Collected		Grab	Composite	Total # of Containers										6			
		Date	Time																
<u>RB-019</u>		<u>30 Jun 15</u>	<u>1500</u>	<input checked="" type="checkbox"/>		<u>9</u>										<u>+1 VOA for TPH volume</u>			
<u>TB-063015-RB</u>		<u>30 Jun 15</u>	<u>1430</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>2</u>													
7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time	9							
Standard <u>Rush</u> <u>5 Day TAT</u>				<u>[Signature]</u>		<u>30 Jun 15</u>	<u>1650</u>	<u>[Signature]</u>		<u>6/30/15</u>	<u>16:52</u>								
(Rush TAT is subject to laboratory approval and surcharge.)				<u>[Signature]</u>		<u>6/30/15</u>	<u>16:50</u>	<u>[Signature]</u>											
Date results are needed: _____				Relinquished by		Date	Time	Received by		Date	Time								
E-mail address: <u>d.kulczykcki@geosyntec.com</u>				Relinquished by		Date	Time	Received by		Date	Time								
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by		Date	Time								
Type I (Validation/non-CLP)		Type VI (Raw Data Only)		<u>[Signature]</u>				<u>[Signature]</u>		<u>7/1/15</u>	<u>0900</u>								
Type III (Reduced non-CLP)		TX TRRP-13																	
<u>Type IV (CLP SOW)</u>		MA MCP CT RCP																	
				EDD Required? <u>Yes</u> No				Relinquished by Commercial Carrier:											
				If yes, format: _____				UPS _____ FedEx <input checked="" type="checkbox"/> Other _____											
				Site-Specific QC (MS/MSD/Dup)? Yes <u>No</u>				Temperature upon receipt <u>1.1</u> °C											
				(If yes, indicate QC sample and submit triplicate sample volume.)															

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 08, 2015

Project: Newporte Landing Development Site

Submittal Date: 07/01/2015

Group Number: 1573610

SDG: NWP34

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

PLA-S-LT-TP1-001 Grab Soil
PLA-S-LT-TP2-001 Grab Soil
PLA-S-LT-TP3-001 Grab Soil
PLA-S-LT-TP3-002 Grab Soil
TB-063015-S1 Water

Lancaster Labs (LL)

7951165
7951166
7951167
7951168
7951169

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

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Geosyntec
Geosyntec

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: PLA-S-LT-TP1-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951165
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 10:00

Geosyntec

1420 Kensington Road

Submitted: 07/01/2015 09:00

Suite 103

Reported: 07/08/2015 23:15

Oakbrook IL 60523

TP101 SDG#: NWP34-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.87
10237	Ethylbenzene	100-41-4	N.D.	1	0.87
10237	Toluene	108-88-3	N.D.	1	0.87
10237	Xylene (Total)	1330-20-7	N.D.	1	0.87
The recovery for the sample internal standard is outside the QC acceptance limits. The following corrective action was taken: The remaining sample vial leaked during the re-analysis, therefore the matrix effects observed in the initial analysis could not be confirmed. The data is reported from the initial trial.					
GC Volatiles		SW-846 8015D Rev.4, June 2003	mg/kg	mg/kg	
10599	TPH-GRO soil C6-C10	n.a.	0.3 J	0.2	24.63
GC Petroleum Hydrocarbons		SW-846 8015D Rev.4, June 2003	mg/kg	mg/kg	
12838	DRO C10-C28 8015C/D (Microwv)	n.a.	48	4.5	1
Metals		SW-846 6010B	mg/kg	mg/kg	
06955	Lead	7439-92-1	55.8	0.551	1
Wet Chemistry		SM 2540 G-1997	%	%	
00111	Moisture	n.a.	11.1	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX in Soil	SW-846 8260B	1	A151871AA	07/06/2015 22:44	Sara E Johnson	0.87
06176	GC/MS - LL Water Prep	SW-846 5035	1	201518238155	07/01/2015 19:26	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201518238155	07/01/2015 19:26	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201518238155	06/30/2015 10:00	Client Supplied	1
10599	TPH-GRO soils C6-C10	SW-846 8015D Rev.4, June 2003	1	15183A16A	07/07/2015 01:25	Jeremy C Giffin	24.63
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201518238155	07/01/2015 19:12	Lois E Hiltz	n.a.
12838	DRO C10-C28 8015C/D (Microwv)	SW-846 8015D Rev.4, June 2003	1	151830007A	07/07/2015 00:48	Christine E Dolman	1

Sample Description: PLA-S-LT-TP1-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951165
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 10:00

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

Submitted: 07/01/2015 09:00

Reported: 07/08/2015 23:15

TP101 SDG#: NWP34-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12837	DRO 8015C/D Microwave Ext.	SW-846 3546	1	151830007A	07/02/2015 18:30	Sally L Appleyard	1
06955	Lead	SW-846 6010B	1	151835708006	07/06/2015 21:44	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151835708006	07/06/2015 11:40	James L Mertz	1
00111	Moisture	SM 2540 G-1997	1	15183820010B	07/02/2015 21:49	Scott W Freisher	1

Sample Description: PLA-S-LT-TP2-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951166
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 11:00

Geosyntec

1420 Kensington Road

Submitted: 07/01/2015 09:00

Suite 103

Reported: 07/08/2015 23:15

Oakbrook IL 60523

TP201 SDG#: NWP34-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
		SW-846 8260B		ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.94
10237	Ethylbenzene	100-41-4	N.D.	1	0.94
10237	Toluene	108-88-3	N.D.	1	0.94
10237	Xylene (Total)	1330-20-7	N.D.	1	0.94
GC Volatiles					
		SW-846 8015D Rev.4, June 2003		mg/kg	
10599	TPH-GRO soil C6-C10	n.a.	0.8 J	0.2	24.37
GC Petroleum Hydrocarbons					
		SW-846 8015D Rev.4, June 2003		mg/kg	
12838	DRO C10-C28 8015C/D (Microwv)	n.a.	100	4.4	1
Metals					
		SW-846 6010B		mg/kg	
06955	Lead	7439-92-1	34.3	0.529	1
Wet Chemistry					
		SM 2540 G-1997		%	
00111	Moisture	n.a.	9.2	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX in Soil	SW-846 8260B	1	A151871AA	07/06/2015 23:06	Sara E Johnson	0.94
06176	GC/MS - LL Water Prep	SW-846 5035	1	201518238155	07/01/2015 19:26	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201518238155	07/01/2015 19:26	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201518238155	06/30/2015 11:00	Client Supplied	1
10599	TPH-GRO soils C6-C10	SW-846 8015D Rev.4, June 2003	1	15183A16A	07/07/2015 02:02	Jeremy C Giffin	24.37
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201518238155	07/01/2015 19:14	Lois E Hiltz	n.a.
12838	DRO C10-C28 8015C/D (Microwv)	SW-846 8015D Rev.4, June 2003	1	151830007A	07/07/2015 02:33	Christine E Dolman	1
12837	DRO 8015C/D Microwave Ext.	SW-846 3546	1	151830007A	07/02/2015 18:30	Sally L Appleyard	1
06955	Lead	SW-846 6010B	1	151835708006	07/06/2015 21:47	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151835708006	07/06/2015 11:40	James L Mertz	1

Sample Description: PLA-S-LT-TP2-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951166
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 11:00

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/08/2015 23:15

Suite 103

Oakbrook IL 60523

TP201 SDG#: NWP34-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM 2540 G-1997	1	15183820010B	07/02/2015 21:49	Scott W Freisher	1

Sample Description: PLA-S-LT-TP3-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951167
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 12:00

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/08/2015 23:15

Suite 103

Oakbrook IL 60523

TP301 SDG#: NWP34-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles					
	SW-846 8260B		ug/kg	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	0.84
10237	Ethylbenzene	100-41-4	N.D.	1	0.84
10237	Toluene	108-88-3	N.D.	1	0.84
10237	Xylene (Total)	1330-20-7	N.D.	1	0.84
GC Volatiles					
	SW-846 8015D Rev.4, June 2003		mg/kg	mg/kg	
10599	TPH-GRO soil C6-C10	n.a.	0.4 J	0.2	24.39
GC Petroleum Hydrocarbons					
	SW-846 8015D Rev.4, June 2003		mg/kg	mg/kg	
12838	DRO C10-C28 8015C/D (Microwv)	n.a.	95	4.6	1
Metals					
	SW-846 6010B		mg/kg	mg/kg	
06955	Lead	7439-92-1	485	0.571	1
Wet Chemistry					
	SM 2540 G-1997		%	%	
00111	Moisture	n.a.	13.3	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX in Soil	SW-846 8260B	1	A151871AA	07/06/2015 23:29	Sara E Johnson	0.84
06176	GC/MS - LL Water Prep	SW-846 5035	1	201518238155	07/01/2015 19:26	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201518238155	07/01/2015 19:26	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201518238155	06/30/2015 12:00	Client Supplied	1
10599	TPH-GRO soils C6-C10	SW-846 8015D Rev.4, June 2003	1	15183A16A	07/07/2015 02:40	Jeremy C Giffin	24.39
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201518238155	07/01/2015 19:16	Lois E Hiltz	n.a.
12838	DRO C10-C28 8015C/D (Microwv)	SW-846 8015D Rev.4, June 2003	1	151830007A	07/07/2015 03:15	Christine E Dolman	1
12837	DRO 8015C/D Microwave Ext.	SW-846 3546	1	151830007A	07/02/2015 18:30	Sally L Appleyard	1
06955	Lead	SW-846 6010B	1	151835708006	07/06/2015 21:57	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151835708006	07/06/2015 11:40	James L Mertz	1

Sample Description: PLA-S-LT-TP3-001 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951167
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 12:00

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/08/2015 23:15

Suite 103

Oakbrook IL 60523

TP301 SDG#: NWP34-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM 2540 G-1997	1	15183820010B	07/02/2015 21:49	Scott W Freisher	1

Sample Description: PLA-S-LT-TP3-002 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951168
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 12:30

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/08/2015 23:15

Suite 103

Oakbrook IL 60523

TP302 SDG#: NWP34-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/kg	
10237	Benzene	71-43-2	N.D.	0.4	0.81
10237	Ethylbenzene	100-41-4	N.D.	0.9	0.81
10237	Toluene	108-88-3	N.D.	0.9	0.81
10237	Xylene (Total)	1330-20-7	N.D.	0.9	0.81
GC Volatiles			SW-846 8015D Rev.4, June 2003	mg/kg	
10599	TPH-GRO soil C6-C10	n.a.	1.5	0.2	24.34
GC Petroleum Hydrocarbons			SW-846 8015D Rev.4, June 2003	mg/kg	
12838	DRO C10-C28 8015C/D (Microwv)	n.a.	35	4.3	1
Metals			SW-846 6010B	mg/kg	
06955	Lead	7439-92-1	65.3	0.543	1
Wet Chemistry			SM 2540 G-1997	%	
00111	Moisture	n.a.	7.9	0.50	1
Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.					

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX in Soil	SW-846 8260B	1	A151871AA	07/06/2015 23:51	Sara E Johnson	0.81
06176	GC/MS - LL Water Prep	SW-846 5035	1	201518238155	07/01/2015 19:26	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201518238155	07/01/2015 19:26	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201518238155	06/30/2015 12:30	Client Supplied	1
10599	TPH-GRO soils C6-C10	SW-846 8015D Rev.4, June 2003	1	15183A16A	07/07/2015 03:17	Jeremy C Giffin	24.34
01150	GC - Bulk Soil Prep	SW-846 5030A	1	201518238155	07/01/2015 19:17	Lois E Hiltz	n.a.
12838	DRO C10-C28 8015C/D (Microwv)	SW-846 8015D Rev.4, June 2003	1	151830007A	07/07/2015 00:27	Christine E Dolman	1
12837	DRO 8015C/D Microwave Ext.	SW-846 3546	1	151830007A	07/02/2015 18:30	Sally L Appleyard	1
06955	Lead	SW-846 6010B	1	151835708006	07/06/2015 22:00	Tara L Snyder	1
05708	ICP-ICPMS - SW, 3050B - U3	SW-846 3050B	1	151835708006	07/06/2015 11:40	James L Mertz	1

Sample Description: PLA-S-LT-TP3-002 Grab Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7951168
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 12:30

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/08/2015 23:15

Suite 103

Oakbrook IL 60523

TP302 SDG#: NWP34-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	SM 2540 G-1997	1	15183820010B	07/02/2015 21:49	Scott W Freisher	1

Sample Description: TB-063015-S1 Water
LaPorte, IN
Newporte Landing Development Site

LL Sample # G4 7951169
LL Group # 1573610
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/30/2015 14:00

Geosyntec

Submitted: 07/01/2015 09:00

1420 Kensington Road

Reported: 07/08/2015 23:15

Suite 103

Oakbrook IL 60523

TB30S SDG#: NWP34-05TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles			SW-846 8260B	ug/kg	
10237	Benzene	71-43-2	N.D.	0.5	1
10237	Ethylbenzene	100-41-4	N.D.	1	1
10237	Toluene	108-88-3	N.D.	1	1
10237	Xylene (Total)	1330-20-7	N.D.	1	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX in Soil	SW-846 8260B	1	A151871AA	07/06/2015 22:21	Sara E Johnson	1
06176	GC/MS - LL Water Prep	SW-846 5035	1	201518238155	07/01/2015 19:26	Lois E Hiltz	1
06176	GC/MS - LL Water Prep	SW-846 5035	2	201518238155	07/01/2015 19:26	Lois E Hiltz	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035	1	201518238155	06/30/2015 14:00	Client Supplied	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/08/2015 23:15

Group Number: 1573610

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: A151871AA	Sample number(s): 7951165-7951169							
Benzene	N.D.	0.5	ug/kg	102	100	80-120	2	30
Ethylbenzene	N.D.	1.	ug/kg	103	100	80-120	2	30
Toluene	N.D.	1.	ug/kg	103	100	80-120	3	30
Xylene (Total)	N.D.	1.	ug/kg	99	97	80-120	2	30
Batch number: 15183A16A	Sample number(s): 7951165-7951168							
TPH-GRO soil C6-C10	N.D.	0.2	mg/kg	78	75	61-120	4	30
Batch number: 151830007A	Sample number(s): 7951165-7951168							
DRO C10-C28 8015C/D (Microwv)	N.D.	4.0	mg/kg	92		81-121		
Batch number: 151835708006	Sample number(s): 7951165-7951168							
Lead	N.D.	0.500	mg/kg	99		80-120		
Batch number: 15183820010B	Sample number(s): 7951165-7951168							
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151830007A	Sample number(s): 7951165-7951168 UNSPK: P945714								
DRO C10-C28 8015C/D (Microwv)	88	82	30-159	3	20				
Batch number: 151835708006	Sample number(s): 7951165-7951168 UNSPK: P948318 BKG: P948318								
Lead	1892	161 (2)	75-125	90*	20	134	289	73*	20
		(2)							
Batch number: 15183820010B	Sample number(s): 7951165-7951168 BKG: P948861								
Moisture						21.6	21.6	0	5

Surrogate Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/08/2015 23:15

Group Number: 1573610

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX in Soil
Batch number: A151871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7951165	94	98	106	94
7951166	98	98	108	93
7951167	98	96	115	85
7951168	99	102	104	98
7951169	98	100	103	99
Blank	99	101	103	100
LCS	98	97	103	101
LCSD	99	100	103	102
Limits:	50-141	54-135	52-141	50-131

Analysis Name: TPH-GRO soils C6-C10
Batch number: 15183A16A

	Trifluorotoluene-F
7951165	70
7951166	72
7951167	74
7951168	72
Blank	89
LCS	91
LCSD	92
Limits:	50-142

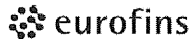
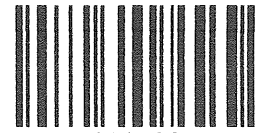
Analysis Name: DRO C10-C28 8015C/D (Microwv)
Batch number: 151830007A

	Orthoterphenyl
7951165	92
7951166	95
7951167	101
7951168	87
Blank	96
LCS	89
MS	103
MSD	98
Limits:	54-145

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 20448 For Eurofins Lancaster Laboratories Environmental use only
Group # 1573610 Sample # 7951165-69
Instructions on reverse side correspond with circled numbers.

356428

1 Client Information				4 Matrix				5 Analysis Requested					For Lab Use Only	
Client: <u>Geosyntec Consultants</u>		Acct. #:		<input type="checkbox"/> Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Surface Other: <u>Trip Blank Water</u>	Total # of Containers	Preservation Codes					FSC: _____	SCR#: _____		
Project Name/ #: <u>CHR 8417</u>		PWSID #:				BTEX TPH GRD - DRD Total Lead					Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other			
Project Manager: <u>Dave Kulczycki</u>		P.O. #:									6 Remarks			
Sampler: <u>Various</u>		Quote #:									Date Time Relinquished by Date Time Received by Date Time Relinquished by Date Time Received by Date Time Relinquished by Date Time Received by			
Name of state where samples were collected: <u>IN</u>													9	
2 Sample Identification			3 Collected		Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX	TPH GRD - DRD	Total Lead	
		Date	Time											
<u>PLA-S-LT-TP1-001</u>		<u>30 Jun 15</u>	<u>1000</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-LT-TP2-001</u>			<u>1100</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-LT-TP3-001</u>			<u>1200</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>PLA-S-LT-TP3-002</u>			<u>1230</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>TB-063015-S1</u>			<u>1400</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		<u>3</u>	<input checked="" type="checkbox"/>			

7 Turnaround Time (TAT) Requested (please circle)
Standard Rush 5 day TAT
(Rush TAT is subject to laboratory approval and surcharge.)
Date results are needed: _____
E-mail address: dkulczycki@geosyntec.com

8 Data Package Options (circle if required)
Type I (Validation/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) TX TRRP-13
Type IV (CLP SOW) MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
<u>[Signature]</u>	<u>30 Jun 15</u>	<u>10:50</u>	<u>[Signature]</u>	<u>6/30/15</u>	<u>16:50</u>
Relinquished by	Date	Time	Received by	Date	Time
<u>[Signature]</u>	<u>6/30/15</u>	<u>16:50</u>			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
			<u>[Signature]</u>	<u>7/1/15</u>	<u>0900</u>

EDD Required? Yes No
If yes, format: _____
Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx ✓ Other _____
Temperature upon receipt 2.2 °C

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Geosyntec
1420 Kensington Road
Suite 103
Oakbrook IL 60523

July 13, 2015

Project: Newporte Landing Development Site

Submittal Date: 06/27/2015

Group Number: 1575964

SDG: NWP36

PO Number: 201506111740

State of Sample Origin: IN

Client Sample Description

IDW-S-LTFS Composite Soil
IDW-S-POWER Composite Soil
IDW-S-VPPLAGEN Composite Soil

Lancaster Labs (LL) #

7962423
7962424
7962425

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>.

ELECTRONIC Geosyntec
COPY TO
ELECTRONIC Geosyntec
COPY TO

Attn: David Kulczycki

Attn: Jedediah Sirk

Respectfully Submitted,



Stefanie Mielnicki
Project Manager

(312) 590-3133

Sample Description: IDW-S-LTFS Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7962423
LL Group # 1575964
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:35

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/13/2015 14:20

Suite 103

Oakbrook IL 60523

SLTFS SDG#: NWP36-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs			SW-846 8082	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.3	1
10736	PCB-1221	11104-28-2	N.D.	5.5	1
10736	PCB-1232	11141-16-5	N.D.	9.6	1
10736	PCB-1242	53469-21-9	N.D.	3.9	1
10736	PCB-1248	12672-29-6	N.D.	3.9	1
10736	PCB-1254	11097-69-1	58	3.9	1
10736	PCB-1260	11096-82-5	N.D.	5.9	1
10736	Total PCBs	1336-36-3	58	3.9	1
Wet Chemistry			SM 2540 G-1997	%	
07801	Moisture (Re-Entry)	n.a.	17.4	0.50	1

General Sample Comments

This sample was originally submitted to the laboratory on 6/27/15 at 09:30. We received authorization for further testing on 7/10/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10736	PCBs in Soil (microwave)	SW-846 8082	1	151920001A	07/13/2015 10:55	Monica M Souders	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151920001A	07/12/2015 07:50	Olivia Arosemena	1
07801	Moisture (Re-Entry)	SM 2540 G-1997	1	15182820010B	07/01/2015 21:43	Scott W Freisher	1

Sample Description: IDW-S-POWER Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7962424
LL Group # 1575964
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:40

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/13/2015 14:20

Suite 103

Oakbrook IL 60523

POWER SDG#: NWP36-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.3	1
10736	PCB-1221	11104-28-2	N.D.	5.5	1
10736	PCB-1232	11141-16-5	N.D.	9.6	1
10736	PCB-1242	53469-21-9	N.D.	4.0	1
10736	PCB-1248	12672-29-6	N.D.	4.0	1
10736	PCB-1254	11097-69-1	N.D.	4.0	1
10736	PCB-1260	11096-82-5	18 J	5.9	1
10736	Total PCBs	1336-36-3	18 J	4.0	1
Wet Chemistry		SM 2540 G-1997	%	%	
07801	Moisture (Re-Entry)	n.a.	17.7	0.50	1

General Sample Comments

This sample was originally submitted to the laboratory on 6/27/15 at 09:30. We received authorization for further testing on 7/10/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10736	PCBs in Soil (microwave)	SW-846 8082	1	151920001A	07/13/2015 11:30	Monica M Souders	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151920001A	07/12/2015 07:50	Olivia Arosemena	1
07801	Moisture (Re-Entry)	SM 2540 G-1997	1	15182820010B	07/01/2015 21:43	Scott W Freisher	1

Sample Description: IDW-S-VPPLAGEN Composite Soil
LaPorte, IN
Newporte Landing Development Site

LL Sample # SW 7962425
LL Group # 1575964
Account # 20448

Project Name: Newporte Landing Development Site

Collected: 06/26/2015 17:45

Geosyntec

Submitted: 06/27/2015 09:30

1420 Kensington Road

Reported: 07/13/2015 14:20

Suite 103

Oakbrook IL 60523

VPPLA SDG#: NWP36-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
Pesticides/PCBs			SW-846 8082	ug/kg	
10736	PCB-1016	12674-11-2	N.D.	4.3	1
10736	PCB-1221	11104-28-2	N.D.	5.5	1
10736	PCB-1232	11141-16-5	N.D.	9.6	1
10736	PCB-1242	53469-21-9	N.D.	4.0	1
10736	PCB-1248	12672-29-6	N.D.	4.0	1
10736	PCB-1254	11097-69-1	N.D.	4.0	1
10736	PCB-1260	11096-82-5	N.D.	5.9	1
10736	Total PCBs	1336-36-3	N.D.	4.0	1
Wet Chemistry			SM 2540 G-1997	%	
07801	Moisture (Re-Entry)	n.a.	17.0	0.50	1

General Sample Comments

This sample was originally submitted to the laboratory on 6/27/15 at 09:30. We received authorization for further testing on 7/10/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10736	PCBs in Soil (microwave)	SW-846 8082	1	151920001A	07/13/2015 11:41	Monica M Souders	1
10497	PCB Microwave Soil Extraction	SW-846 3546	1	151920001A	07/12/2015 07:50	Olivia Arosemena	1
07801	Moisture (Re-Entry)	SM 2540 G-1997	1	15182820010B	07/01/2015 21:43	Scott W Freisher	1

Quality Control Summary

Client Name: Geosyntec
Reported: 07/13/2015 14:20

Group Number: 1575964

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 151920001A	Sample number(s): 7962423-7962425							
PCB-1016	N.D.	3.6	ug/kg	106		76-121		
PCB-1221	N.D.	4.6	ug/kg					
PCB-1232	N.D.	8.0	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.3	ug/kg					
PCB-1260	N.D.	4.9	ug/kg	107		80-140		
Total PCBs	N.D.	3.3	ug/kg					
Batch number: 15182820010B	Sample number(s): 7962423-7962425							
Moisture (Re-Entry)				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 151920001A	Sample number(s): 7962423-7962425 UNSPK: 7962423								
PCB-1016	73	76	41-135	3	50				
PCB-1260	66	64	38-148	3	50				
Batch number: 15182820010B	Sample number(s): 7962423-7962425 BKG: P947152								
Moisture (Re-Entry)					6.0	6.3	5	15	

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PCBs in Soil (microwave)
Batch number: 151920001A

	<u>Tetrachloro-m-xylene</u>	<u>Decachlorobiphenyl</u>
7962423	84	62
7962424	72	75
7962425	67	54

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Geosyntec
Reported: 07/13/2015 14:20

Group Number: 1575964

Surrogate Quality Control

Blank	108	80
LCS	105	88
MS	87	66
MSD	87	64
Limits:	50-148	43-155

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Kay Hower

From: David Kulczycki <DKulczycki@Geosyntec.com>
Sent: Friday, July 10, 2015 1:41 PM
To: Stefanie Mielnicki; Kay Hower
Cc: Laura Jovanovic; Jedidiah Sirk
Subject: RE: Metals in soil

Okay, please get the PCBs running so we meet the hold time. Sorry for the last minute request. 3-day TAT okay?

I will let you know early next week about the sieve and lead. Need to discuss with client first.

Thanks and have a good weekend!

David Kulczycki
Geosyntec Consultants
Office – (630) 203-3358
Mobile – (847) 902-1517

From: Stefanie Mielnicki [mailto:StefanieMielnicki@eurofinsUS.com]
Sent: Friday, July 10, 2015 12:38 PM
To: David Kulczycki; Kay Hower
Cc: Laura Jovanovic; Jedidiah Sirk
Subject: RE: Metals in soil

Dave-

Per the lab, we can sieve and analyze for Total Lead. The cost for sieving is \$10 plus the cost of lead. The hold time for TCLP Lead is 6 months, so we can re-enter samples and analyze for this as well.

The hold time for PCBs (extraction) is 14 days. Group 1572804 was collected on 6/26, so hold time is up today.

Let us know if you have additional questions or need any samples re-entered for these analyses. Thanks !

Best-

Stefanie Mielnicki
Project Manager

Please note that the lab will be closed on Friday, July 4th for Independence Day.

Eurofins Lancaster Laboratories Environmental, LLC
493 W. Wrightwood Avenue
Elmhurst, IL 60126
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www.LancasterLabsEnv.com

Look for Eurofins Lancaster Laboratories Environmental at these upcoming conferences and industry events.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and the $<$ Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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APPENDIX H

Data Usability Evaluation

**DATA USABILITY
EVALUATION SUMMARY
NEWPORTE LANDING DEVELOPMENT SITE
PINE LAKE AVENUE PARCEL
La Porte, Indiana**

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

2240 Sutherland Avenue, Suite 107
Knoxville, Tennessee 37919

25 August 2015

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1. EXECUTIVE SUMMARY

This data usability evaluation (DUE) provides a summary indicating that the analytical data collected and analyzed for the Pine Lake Ave (PLA) Parcel of the Newporte Landing Development Site project contained in the sample delivery groups/work orders (SDGs/WOs) listed below are adequate for their intended purpose, based on a review of associated quality control (QC), non-conformances provided with the data (as applicable) and information provided by the data quality assessment (DQA) process with the following exceptions. Data that were assessed during this process and were rejected based on the information provided and per the referenced Indiana Department of Environmental Management (IDEM) Validation Guidance; USEPA National Functional Guidance for Organic and Inorganic Data Review should not be used. Other qualified data should be used within the limitation of the qualifications. Evidence of overall bias was observed based on associated field and/or laboratory QC exceedances, for semi-volatile (SVOC) analysis, the acid extractable fractions, in the concrete samples. The DQA indicated an overall low bias for the acid extractable analytes analyzed per SW846 Method 8270D in the concrete samples. Due to the alkaline nature of the matrix; recoveries of acid extractable semi-volatile compounds are low resulting in a high percentage of R qualified non-detect results and UJ qualified non-detect results. For the remaining analyses, an overall directional bias was not observed.

1.1 Discussion

For the purposes of this report, since IDEM did not recommend or define a specific data assessment protocol or guidance document, the Data of Known Quality Protocols (DKQPs, NJDEP Data of Known Quality Protocols Technical Guidance, Version 1.0, April 2014) and the DQOs described in the project specific Sampling and Analysis Plan (SAP) were used as the basis to assess the analytical performance of the laboratory with regard to the data associated with laboratory QC samples. DKQPs are analytical performance objectives that were developed to standardize the minimum quality assurance/quality control (QA/QC) and reporting documentation expected for analytical laboratory data used by investigators. These objectives assume samples have been collected properly and are representative of the site location to the greatest extent possible. Laboratory data that conform to DKQPs and the DQOs specified by the project specific SAP provide confidence that data are of known and documented quality.

A DQA is an assessment of the laboratory QC data, the laboratory report, and laboratory narrative to identify and summarize QC nonconformance. Eurofins Lancaster Laboratories, Lancaster, Pennsylvania provided analytical reports and associated electronic data deliverables (EDDs) for the majority of the data for the project. Subsets of the analytical data analyses were performed by EMSL Analytical, Inc, Cinnaminson, New Jersey, and ALS Environmental, Middletown, Pennsylvania. DQAs were performed on the following laboratory reports listed by Group Number and located in Appendix A of this document:

Table 1: DQA Listing by Laboratory Group Number

1570835	1572470
1570838	1572792
1571386	1572802
1571667	1572803
1571668	1572804
1571670	1573610
1571673	1575964
1572469	

Eurofins Lancaster Laboratories Environmental analyzed the samples for the following analytical tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5030B/8260B and 5035/8260B
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3546/8270D
- Metals by EPA Methods 3050B/6010B
- Mercury by EPA Method 7471A
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Methods 3510C//8270D
- Flash Point by EPA Method 1010A
- pH by EPA Method 9040B
- TCLP Volatile Organic Compounds (VOCs) by EPA Methods 1311/5030B/8260B
- TCLP Semivolatile Organic Compounds (SVOCs) by EPA Methods 1311/3510C/8270D
- TCLP Metals by EPA Methods 1311/3005A/6010B
- TCLP Mercury by EPA Method 1311/7470A
- Total Cyanide by EPA Method 9012B
- Ignitability by 40 CFR 261.21
- pH by EPA Method 9040B
- Paint Filter Liquid Test by EPA Method 9095B
- Sulfide by EPA Method 9034
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Methods 5030B/8260B
- Gasoline Range Organics (GROs) by EPA Methods 5030B/8015D
- Diesel Range Organics (DROs) by EPA Methods 3511/8015D
- Lead by EPA Methods 3020A/6020

ALS Environmental analyzed the samples for the following analytical tests:

- Acid Soluble Sulfide by EPA Method 9034r096
- Moisture by SM2540G-11
- Total Solids by SM2540G-11

The following sample matrices were analyzed over the course of the project:

- Soil
- Groundwater
- Concrete
- Investigative derived waste; solid and liquid

The DUE is an evaluation to determine if the analytical data (that may include nonconformances) are of sufficient quality for the intended purpose. The DUE uses the results of the DQA and evaluates the

quality of the analytical data in relation to the project-specific DQOs and the intended use of the data. One of the primary purposes of the DUE is to determine if any bias that might be present in the analytical results, as identified during the DQA, affects the usability of the data for the intended purpose.

The initial DUE evaluates precision, accuracy, and sensitivity of the analytical data compared to DQOs. Representativeness, completeness, and comparability should be evaluated as part of a DUE and should be considered when incorporating analytical data into the conceptual site model (CSM).

A summary of the overall precision, accuracy, and sensitivity of the analytical data is discussed in the following text.

1.2 Data Usability Evaluation

Precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS parameters) are used to describe the quality of analytical data in quantitative and qualitative terms using the information provided by the laboratory QC information. Each of the PARCCS parameters as they relate to the data is discussed below.

Validation qualifiers were applied to the data to reflect the limitations of the data usability based on precision and accuracy and are as follows:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Qualifications of the data were applied per the cited guidance and are shown in the tables below and have also been added to the project EDD.

1.2.1 Precision

Precision expresses the closeness of agreement, or degree of dispersion, between a series of measurements. Precision is a measure of the reproducibility of sample results. The goal is to maintain a level of analytical precision consistent with the DQOs.

Precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source or percent relative standard deviation (%RSD) from multiple sets of data. Measurement of precision is achieved by the analysis of laboratory duplicates, laboratory control sample/laboratory control sample duplicate pairs (LCS/LCSD), matrix spike/matrix spike duplicate pairs (MS/MSD) and field duplicate pairs. RPD only was considered during the DQA.

Instances where RPDs exceeded 40% (field duplicate) and 20% (laboratory duplicate) were limited to the following sample results shown in Table 1.2.1a and Table 1.2.1b. Samples were qualified accordingly in the associated EDDs.

Field duplicate imprecision is likely due to non-homogeneity of the sample matrix. Laboratory duplicate imprecision is likely due to sample non-homogeneity as well although it may also be attributed to imprecision introduced during the laboratory processing and analysis of the samples.

Field duplicates were analyzed at the frequency specified by the SAP.

Precision Outside of Acceptance Criteria

Table 1.2.1a. Uncertainty Related to Field Duplicates

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier
1570838	PLA-S-GP-SB03-3-4	2,4-Dimethylphenol	SW-846 8270D	36	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	2-Methylnaphthalene	SW-846 8270D	690	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	2-Methylphenol	SW-846 8270D	32	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	4-Methylphenol	SW-846 8270D	70	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Acenaphthene	SW-846 8270D	1,300	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Acenaphthylene	SW-846 8270D	120	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Acetone	SW-846 8260B	6	ug/kg	UJ
1570838	PLA-S-GP-SB03-3-4	Anthracene	SW-846 8270D	2,100	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Antimony	SW-846 6010B	2.16	mg/kg	J
1570838	PLA-S-GP-SB03-3-4	Benzo(a)anthracene	SW-846 8270D	2,900	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Benzo(a)pyrene	SW-846 8270D	2,500	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Benzo(b)fluoranthene	SW-846 8270D	2,900	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Benzo(g,h,i)perylene	SW-846 8270D	1,600	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Benzo(k)fluoranthene	SW-846 8270D	1,200	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Beryllium	SW-846 6010B	0.547	mg/kg	J
1570838	PLA-S-GP-SB03-3-4	Carbazole	SW-846 8270D	860	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Chrysene	SW-846 8270D	2,800	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Dibenz(a,h)anthracene	SW-846 8270D	420	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Dibenzofuran	SW-846 8270D	830	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Fluoranthene	SW-846 8270D	6,100	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Fluorene	SW-846 8270D	1,200	ug/kg	J

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier
1570838	PLA-S-GP-SB03-3-4	Indeno(1,2,3-cd)pyrene	SW-846 8270D	1,400	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Lead	SW-846 6010B	41	mg/kg	J
1570838	PLA-S-GP-SB03-3-4	Mercury	SW-846 7471A	0.153	mg/kg	J
1570838	PLA-S-GP-SB03-3-4	Naphthalene	SW-846 8270D	2,000	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	N-Nitrosodiphenylamine	SW-846 8270D	31	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Phenanthrene	SW-846 8270D	7,100	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Phenol	SW-846 8270D	51	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Pyrene	SW-846 8270D	5,100	ug/kg	J
1570838	PLA-S-GP-SB03-3-4	Silver	SW-846 6010B	0.212	mg/kg	UJ
1570838	PLA-S-GP-SB03-3-4	Zinc	SW-846 6010B	224	mg/kg	J
1570838	DUP-061915-001	2,4-Dimethylphenol	SW-846 8270D	19	ug/kg	UJ
1570838	DUP-061915-001	2-Methylnaphthalene	SW-846 8270D	240	ug/kg	J
1570838	DUP-061915-001	2-Methylphenol	SW-846 8270D	19	ug/kg	UJ
1570838	DUP-061915-001	4-Methylphenol	SW-846 8270D	25	ug/kg	J
1570838	DUP-061915-001	Acenaphthene	SW-846 8270D	420	ug/kg	J
1570838	DUP-061915-001	Acenaphthylene	SW-846 8270D	46	ug/kg	J
1570838	DUP-061915-001	Acetone	SW-846 8260B	7	ug/kg	J
1570838	DUP-061915-001	Anthracene	SW-846 8270D	660	ug/kg	J
1570838	DUP-061915-001	Antimony	SW-846 6010B	2.54	mg/kg	J
1570838	DUP-061915-001	Benzo(a)anthracene	SW-846 8270D	860	ug/kg	J
1570838	DUP-061915-001	Benzo(a)pyrene	SW-846 8270D	850	ug/kg	J
1570838	DUP-061915-001	Benzo(b)fluoranthene	SW-846 8270D	990	ug/kg	J
1570838	DUP-061915-001	Benzo(g,h,i)perylene	SW-846 8270D	550	ug/kg	J
1570838	DUP-061915-001	Benzo(k)fluoranthene	SW-846 8270D	360	ug/kg	J
1570838	DUP-061915-001	Beryllium	SW-846 6010B	0.567	mg/kg	J
1570838	DUP-061915-001	Carbazole	SW-846 8270D	330	ug/kg	J
1570838	DUP-061915-001	Chrysene	SW-846 8270D	880	ug/kg	J
1570838	DUP-061915-001	Dibenz(a,h)anthracene	SW-846 8270D	140	ug/kg	J
1570838	DUP-061915-001	Dibenzofuran	SW-846 8270D	290	ug/kg	J
1570838	DUP-061915-001	Fluoranthene	SW-846 8270D	2,000	ug/kg	J
1570838	DUP-061915-001	Fluorene	SW-846 8270D	390	ug/kg	J
1570838	DUP-061915-001	Indeno(1,2,3-cd)pyrene	SW-846 8270D	480	ug/kg	J
1570838	DUP-061915-001	Lead	SW-846 6010B	284	mg/kg	J
1570838	DUP-061915-001	Mercury	SW-846 7471A	0.111	mg/kg	J
1570838	DUP-061915-001	Naphthalene	SW-846 8270D	760	ug/kg	J
1570838	DUP-061915-001	N-Nitrosodiphenylamine	SW-846 8270D	19	ug/kg	UJ
1570838	DUP-061915-001	Phenanthrene	SW-846 8270D	2,600	ug/kg	J

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier
1570838	DUP-061915-001	Phenol	SW-846 8270D	19	ug/kg	UJ
1570838	DUP-061915-001	Pyrene	SW-846 8270D	1,700	ug/kg	J
1570838	DUP-061915-001	Silver	SW-846 6010B	0.251	mg/kg	J
1570838	DUP-061915-001	Zinc	SW-846 6010B	346	mg/kg	J
1571386	PLA-CS-George_Bldg-D9	Acetone	SW-846 8260B	11	ug/kg	J
1571386	PLA-CS-George_Bldg-D9	Benzo(a)anthracene	SW-846 8270D	N.D.	ug/kg	UJ
1571386	PLA-CS-George_Bldg-D9	Silver	SW-846 6010B	0.601	mg/kg	J
1571386	DUP-062215-001	Acetone	SW-846 8260B	N.D.	ug/kg	UJ
1571386	DUP-062215-001	Benzo(a)anthracene	SW-846 8270D	7	ug/kg	J
1571386	DUP-062215-001	Silver	SW-846 6010B	1.52	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Antimony	SW-846 6010B	8.19	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Arsenic	SW-846 6010B	12.1	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Barium	SW-846 6010B	397	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Cadmium	SW-846 6010B	5.72	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Calcium	SW-846 6010B	8,540	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Chromium	SW-846 6010B	39.8	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Cobalt	SW-846 6010B	7.55	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Copper	SW-846 6010B	197	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Iron	SW-846 6010B	58,300	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Lead	SW-846 6010B	1,020	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Magnesium	SW-846 6010B	4,960	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Manganese	SW-846 6010B	767	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Mercury	SW-846 7471A	0.109	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Nickel	SW-846 6010B	25.4	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Pyrene	SW-846 8270D	61	ug/kg	J
1571386	PLA-S-GP-SB04-0-1	Selenium	SW-846 6010B	5.57	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Silver	SW-846 6010B	1.99	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Thallium	SW-846 6010B	0.927	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Vanadium	SW-846 6010B	22	mg/kg	J
1571386	PLA-S-GP-SB04-0-1	Zinc	SW-846 6010B	3,200	mg/kg	J
1571386	DUP-062215-002	Arsenic	SW-846 6010B	5.93	mg/kg	J
1571386	DUP-062215-002	Barium	SW-846 6010B	69.3	mg/kg	J
1571386	DUP-062215-002	Cadmium	SW-846 6010B	1.07	mg/kg	J
1571386	DUP-062215-002	Calcium	SW-846 6010B	49,900	mg/kg	J
1571386	DUP-062215-002	Chromium	SW-846 6010B	10.9	mg/kg	J
1571386	DUP-062215-002	Cobalt	SW-846 6010B	4.43	mg/kg	J
1571386	DUP-062215-002	Copper	SW-846 6010B	21.8	mg/kg	J

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier
1571386	DUP-062215-002	Iron	SW-846 6010B	17,400	mg/kg	J
1571386	DUP-062215-002	Lead	SW-846 6010B	73.6	mg/kg	J
1571386	DUP-062215-002	Magnesium	SW-846 6010B	23,600	mg/kg	J
1571386	DUP-062215-002	Manganese	SW-846 6010B	477	mg/kg	J
1571386	DUP-062215-002	Mercury	SW-846 7471A	0.0376	mg/kg	J
1571386	DUP-062215-002	Nickel	SW-846 6010B	10.1	mg/kg	J
1571386	DUP-062215-002	Pyrene	SW-846 8270D	110	ug/kg	J
1571386	DUP-062215-002	Selenium	SW-846 6010B	0.713	mg/kg	J
1571386	DUP-062215-002	Silver	SW-846 6010B	0.412	mg/kg	J
1571386	DUP-062215-002	Thallium	SW-846 6010B	0.888	mg/kg	UJ
1571386	DUP-062215-002	Vanadium	SW-846 6010B	12.1	mg/kg	J
1571386	DUP-062215-002	Zinc	SW-846 6010B	727	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	2-Methylnaphthalene	SW-846 8270D	20	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Acenaphthene	SW-846 8270D	4	ug/kg	UJ
1571670	PLA-S-FS-SB07-0-1	Anthracene	SW-846 8270D	10	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Barium	SW-846 6010B	120	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Benzo(a)anthracene	SW-846 8270D	30	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Benzo(a)pyrene	SW-846 8270D	39	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Benzo(b)fluoranthene	SW-846 8270D	45	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Benzo(g,h,i)perylene	SW-846 8270D	38	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Benzo(k)fluoranthene	SW-846 8270D	24	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Beryllium	SW-846 6010B	0.534	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Cadmium	SW-846 6010B	0.932	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Calcium	SW-846 6010B	14,000	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Chrysene	SW-846 8270D	38	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Copper	SW-846 6010B	60.2	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Dibenz(a,h)anthracene	SW-846 8270D	14	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Fluoranthene	SW-846 8270D	39	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Fluorene	SW-846 8270D	4	ug/kg	UJ
1571670	PLA-S-FS-SB07-0-1	Indeno(1,2,3-cd)pyrene	SW-846 8270D	34	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Lead	SW-846 6010B	195	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Magnesium	SW-846 6010B	6,160	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Mercury	SW-846 7471A	0.157	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Naphthalene	SW-846 8270D	17	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Phenanthrene	SW-846 8270D	35	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Pyrene	SW-846 8270D	43	ug/kg	J
1571670	PLA-S-FS-SB07-0-1	Silver	SW-846 6010B	0.938	mg/kg	J
1571670	PLA-S-FS-SB07-0-1	Zinc	SW-846 6010B	228	mg/kg	J

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier
1571673	DUP-062315-001	2-Methylnaphthalene	SW-846 8270D	7	ug/kg	J
1571673	DUP-062315-001	Acenaphthene	SW-846 8270D	6	ug/kg	J
1571673	DUP-062315-001	Anthracene	SW-846 8270D	25	ug/kg	J
1571673	DUP-062315-001	Barium	SW-846 6010B	54.8	mg/kg	J
1571673	DUP-062315-001	Benzo(a)anthracene	SW-846 8270D	120	ug/kg	J
1571673	DUP-062315-001	Benzo(a)pyrene	SW-846 8270D	140	ug/kg	J
1571673	DUP-062315-001	Benzo(b)fluoranthene	SW-846 8270D	210	ug/kg	J
1571673	DUP-062315-001	Benzo(g,h,i)perylene	SW-846 8270D	130	ug/kg	J
1571673	DUP-062315-001	Benzo(k)fluoranthene	SW-846 8270D	83	ug/kg	J
1571673	DUP-062315-001	Beryllium	SW-846 6010B	0.61	mg/kg	J
1571673	DUP-062315-001	Cadmium	SW-846 6010B	0.0466	mg/kg	J
1571673	DUP-062315-001	Calcium	SW-846 6010B	25,500	mg/kg	J
1571673	DUP-062315-001	Chrysene	SW-846 8270D	150	ug/kg	J
1571673	DUP-062315-001	Copper	SW-846 6010B	19.7	mg/kg	J
1571673	DUP-062315-001	Dibenz(a,h)anthracene	SW-846 8270D	37	ug/kg	J
1571673	DUP-062315-001	Fluoranthene	SW-846 8270D	260	ug/kg	J
1571673	DUP-062315-001	Fluorene	SW-846 8270D	6	ug/kg	J
1571673	DUP-062315-001	Indeno(1,2,3-cd)pyrene	SW-846 8270D	120	ug/kg	J
1571673	DUP-062315-001	Lead	SW-846 6010B	39.5	mg/kg	J
1571673	DUP-062315-001	Magnesium	SW-846 6010B	13,000	mg/kg	J
1571673	DUP-062315-001	Mercury	SW-846 7471A	.	mg/kg	J
1571673	DUP-062315-001	Naphthalene	SW-846 8270D	5	ug/kg	J
1571673	DUP-062315-001	Phenanthrene	SW-846 8270D	130	ug/kg	J
1571673	DUP-062315-001	Pyrene	SW-846 8270D	230	ug/kg	J
1571673	DUP-062315-001	Silver	SW-846 6010B	0.382	mg/kg	J
1571673	DUP-062315-001	Zinc	SW-846 6010B	106	mg/kg	J

ug/kg – microrams per kilogram

mg/kg – milligram per kilogram

ug/L– microrams per liter

Table 1.2.1b. Uncertainty Related to Laboratory Duplicates

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier
1571386	PLA-CS-George_Bldg-D8	Beryllium	SW-846 6010B	0.932	mg/kg	J
1571386	PLA-CS-George_Bldg-D8	Iron	SW-846 6010B	12,400	mg/kg	J
1571386	PLA-CS-George_Bldg-D8	Magnesium	SW-846 6010B	30,400	mg/kg	J

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier
1571670	PLA-S-FS-SB08-0-1	Aluminum	SW-846 6010B	9,400	mg/kg	J
1571670	PLA-S-FS-SB08-0-1	Barium	SW-846 6010B	104	mg/kg	J
1571670	PLA-S-FS-SB08-0-1	Cadmium	SW-846 6010B	1.57	mg/kg	J
1571670	PLA-S-FS-SB08-0-1	Iron	SW-846 6010B	24,700	mg/kg	J
1571670	PLA-S-FS-SB08-0-1	Lead	SW-846 6010B	134	mg/kg	J
1571670	PLA-S-FS-SB08-0-1	Zinc	SW-846 6010B	277	mg/kg	J

It should be noted that data are not listed in Tables 1.2.1a or 1.2.1b if the RPD exceedance did not result in qualification of the associated data. For instance, high RPDs associated with non-detect results were not qualified.

Data were not rejected in any of the instances where the RPDs exceeded the acceptance criteria. A directional bias was not indicated by the associated QC results.

The frequency of field duplicates met the project requirements and supports the DQOs.

1.2.2 Accuracy

Accuracy is used to describe the agreement between an observed value and an accepted reference or true value. The goal is to maintain a level of analytical accuracy consistent with the DQOs.

Accuracy is measured through the calculation of the percent recovery (%R) of the measured value against the expected value of a fortified MS/MSD pair, and/or LCS or LCS/LCSD pair. Accuracy is also measured through the analysis of blanks, method blanks, field blanks, equipment blanks, and trip blanks, which provide information regarding the accuracy of the data through the assessment of bias that may be introduced to the analytical result through sampling or sample preparation and analytical procedures. Additionally, accuracy is measured through surrogate and internal standard recoveries in the individual samples as applicable to the method.

The DQA indicated an overall low bias for the acid extractable analytes analyzed per SW846 Method 8270D in the concrete samples. Due to the alkaline nature of the matrix, recoveries of acid extractable semi-volatile compounds are low, resulting in a high percentage of R qualified non-detect results and UJ qualified non-detect results. Otherwise, the associated QC data did not indicate an overall high or low bias for the remaining analyses. Section 9.2 of the project specific SAP, specifies that control limits should be dictated by the analytical method. For validation purposes, both method control limits and validation guidance regarding control limits were used to assess the data.

It should be noted that data are not listed in the tables if the recovery and/or bias did not result in qualification of the data. For instance, high recoveries of compounds in the MS/MSD samples or LCS/LCSD, or LCS associated with non-detect results for those compounds were not qualified.

The frequency of MS/MSD pairs, LCSs, and LCS/LCSD pairs met the requirements for the project and supports the DQOs.

Instances where accuracy and bias exceeded acceptance criteria were limited to the following shown in Tables 1.2.2a through 1.2.2f. Samples were qualified accordingly in the associated EDD.

Accuracy and Bias Outside of Laboratory Criteria

Table 1.2.2a: Bias Related to MS/MSD Recovery

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier	Bias
1571386	PLA-CS-George_Bldg-D8	1,1,2,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D8	Benzoic acid	SW-846 8270D	180	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D8	Zinc	SW-846 6010B	34.9	mg/kg	J+	High
1571386	PLA-S-Road-SB11-0-1	2,4-Dinitrophenol	SW-846 8270D	3500	ug/kg	R	Low
1571386	PLA-S-Road-SB11-0-1	2-Methylnaphthalene	SW-846 8270D	400	ug/kg	J	Low
1571386	PLA-S-Road-SB11-0-1	3,3'-Dichlorobenzidine	SW-846 8270D	1200	ug/kg	R	Low
1571386	PLA-S-Road-SB11-0-1	4,6-Dinitro-2-methylphenol	SW-846 8270D	1900	ug/kg	R	Low
1571386	PLA-S-Road-SB11-0-1	4-Nitrophenol	SW-846 8270D	1900	ug/kg	R	Low
1571386	PLA-S-Road-SB11-0-1	Benzidine	SW-846 8270D	8100	ug/kg	R	Low
1571386	PLA-S-Road-SB11-0-1	Benzyl alcohol	SW-846 8270D	1900	ug/kg	R	Low
1571386	PLA-S-Road-SB11-0-1	Hexachlorocyclopentadiene	SW-846 8270D	1900	ug/kg	R	Low
1571670	PLA-S-FS-SB08-0-1	Benzidine	SW-846 8270D	780	ug/kg	R	Low
1571670	PLA-S-FS-SB08-0-1	Copper	SW-846 6010B	29.6	mg/kg	J	Low
1571670	PLA-S-FS-SB08-0-1	Mercury	SW-846 7471A	0.0106	mg/kg	J	Low
1571673	PLA-S-LT-SB06-0-1	Benzidine	SW-846 8270D	780	ug/kg	R	Low
1571673	PLA-S-LT-SB06-0-1	Lead	SW-846 6010B	21.9	mg/kg	J+	High
1571673	PLA-S-LT-SB06-0-1	Potassium	SW-846 6010B	1910	mg/kg	J+	High
1571673	PLA-S-LT-SB06-0-1	Zinc	SW-846 6010B	127	mg/kg	J+	High
1571673	PLA-CS-George_bldg-A7	Benzoic acid	SW-846 8270D	170	ug/kg	R	Low

Table 1.2.2b: Bias Related to LCS and/or LCDS Recovery

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier	Bias
1570835	PLA-CS-George Building-B6	Isophorone	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C3	Isophorone	SW-846 8270D	160	ug/kg	J	Low
1570835	PLA-CS-George Building-C3	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George	Isophorone	SW-846 8270D	31	ug/kg	J	Low

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier	Bias
	Building-B4						
1570835	PLA-CS-George Building-B4	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	Isophorone	SW-846 8270D	27	ug/kg	J	Low
1570835	PLA-CS-George Building-C8	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	Isophorone	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	Isophorone	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	Isophorone	SW-846 8270D	38	ug/kg	J	Low
1570835	PLA-CS-George Building-C7	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	Isophorone	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	Isophorone	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1570835	TB-061915-C1	Chloromethane	SW-846 8260B	0.5	ug/kg	UJ	Low
1570838	PLA-S-GP-SB03-0-1	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1570838	PLA-S-GP-SB03-3-4	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-4.5-5.5	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1570838	PLA-S-ROAD-SB10-0-1	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1570838	PLA-S-ROAD-SB10-4-5	Nitrobenzene	SW-846 8270D	21	ug/kg	UJ	Low
1570838	PLA-S-GP-SB01-0-1	Nitrobenzene	SW-846 8270D	20	ug/kg	UJ	Low
1570838	PLA-S-GP-SB01-4-5	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1570838	DUP-061915-001	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D9	Hexachlorobutadiene	SW-846 8270D	18	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D9	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D8	Hexachlorobutadiene	SW-846 8270D	18	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D8	Isophorone	SW-846 8270D	130	ug/kg	J	Low
1571386	PLA-CS-George_Bldg-D8	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1571386	PLA-S-Road-SB11-8-10	Nitrobenzene	SW-846 8270D	210	ug/kg	UJ	Low
1571386	DUP-062215-001	Hexachlorobutadiene	SW-846 8270D	17	ug/kg	UJ	Low
1571386	DUP-062215-001	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier	Bias
1571667	RB-014	2,4-Dinitrotoluene	SW-846 8270D	1	ug/kg	UJ	Low
1571667	RB-014	Acenaphthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-014	Anthracene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-014	bis(2-Chloroethoxy)methane	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-014	bis(2-Chloroethyl)ether	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-014	Butylbenzylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-014	Carbazole	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-014	Dibenzofuran	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-014	Diethylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-014	Dimethylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-014	Di-n-butylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-014	Fluorene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-014	Pentachlorophenol	SW-846 8270D	1	ug/kg	UJ	Low
1571667	RB-014	Phenanthrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-014	Pyrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-015	2,4-Dinitrotoluene	SW-846 8270D	1	ug/kg	UJ	Low
1571667	RB-015	Acenaphthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-015	Anthracene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-015	bis(2-Chloroethoxy)methane	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-015	bis(2-Chloroethyl)ether	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-015	Butylbenzylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-015	Carbazole	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-015	Dibenzofuran	SW-846 8270D	0.5	ug/kg	UJ	Low
1571667	RB-015	Diethylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-015	Dimethylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-015	Di-n-butylphthalate	SW-846 8270D	2	ug/kg	UJ	Low
1571667	RB-015	Fluorene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-015	Pentachlorophenol	SW-846 8270D	1	ug/kg	UJ	Low
1571667	RB-015	Phenanthrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571667	RB-015	Pyrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-FS-SB09	Acenaphthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-FS-SB09	Anthracene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-FS-SB09	Fluorene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-FS-SB09	Phenanthrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-FS-SB09	Pyrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-ROAD-SB11	Acenaphthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-ROAD-SB11	Anthracene	SW-846 8270D	0.1	ug/kg	UJ	Low

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier	Bias
1571668	PLA-GTW-ROAD-SB11	Fluorene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-ROAD-SB11	Phenanthrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571668	PLA-GTW-ROAD-SB11	Pyrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB08-0-1	Isophorone	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB08-0-1	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB08-7-8	Isophorone	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB08-7-8	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB08-18-19	Isophorone	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB08-18-19	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-0-1	Isophorone	SW-846 8270D	18	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-0-1	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-7-8	Isophorone	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-7-8	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	Isophorone	SW-846 8270D	21	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	Nitrobenzene	SW-846 8270D	21	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-0-1	Isophorone	SW-846 8270D	19	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-0-1	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-6-7	Isophorone	SW-846 8270D	20	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-6-7	Nitrobenzene	SW-846 8270D	20	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	Isophorone	SW-846 8270D	19	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low
1571673	PLA-CS-George_bldg-A7	Hexachlorobutadiene	SW-846 8270D	17	ug/kg	UJ	Low
1571673	PLA-CS-George_bldg-A7	Isophorone	SW-846 8270D	29	ug/kg	J	Low
1571673	PLA-CS-George_bldg-A7	Nitrobenzene	SW-846 8270D	17	ug/kg	UJ	Low
1571673	DUP-062315-001	Isophorone	SW-846 8270D	18	ug/kg	UJ	Low
1571673	DUP-062315-001	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Acenaphthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Acenaphthylene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Anthracene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Benzo(a)anthracene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Benzo(a)pyrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Benzo(b)fluoranthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Benzo(g,h,i)perylene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Benzo(k)fluoranthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Chrysene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Dibenz(a,h)anthracene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Fluoranthene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Fluorene	SW-846 8270D	0.1	ug/kg	UJ	Low

Group #	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier	Bias
1572469	PLA-GTW-ROAD-SB10	Indeno(1,2,3-cd)pyrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Naphthalene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Phenanthrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-ROAD-SB10	Pyrene	SW-846 8270D	0.1	ug/kg	UJ	Low
1572469	PLA-GTW-LT-SB06	Anthracene	SW-846 8270D	0.2	ug/kg	J	Low
1572469	PLA-GTW-LT-SB06	Phenanthrene	SW-846 8270D	1	ug/kg	J	Low
1572470	PLA-WP-001	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1572470	PLA-WP-002	Nitrobenzene	SW-846 8270D	18	ug/kg	UJ	Low
1572470	PLA-WP-003	Nitrobenzene	SW-846 8270D	19	ug/kg	UJ	Low

Table 1.2.2c: Bias Related to Surrogate Recovery

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1570835	PLA-CS-George Building-B6	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	2-Chlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	2-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	2-Nitrophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	4-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	4-Nitrophenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	Pentachlorophenol	SW-846 8270D	34	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B6	Phenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C3	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	R	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1570835	PLA-CS-George Building-C3	2-Chlorophenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	2-Methylphenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	2-Nitrophenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	4-Methylphenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	4-Nitrophenol	SW-846 8270D	170	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	Pentachlorophenol	SW-846 8270D	34	ug/kg	R	Low
1570835	PLA-CS-George Building-C3	Phenol	SW-846 8270D	17	ug/kg	R	Low
1570835	PLA-CS-George Building-B4	2,4,5-Trichlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	2,4,6-Trichlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	2,4-Dichlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	2,4-Dimethylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	2,4-Dinitrophenol	SW-846 8270D	320	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	2-Chlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	2-Methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	2-Nitrophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	4,6-Dinitro-2-methylphenol	SW-846 8270D	180	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	4-Chloro-3-methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	4-Methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	4-Nitrophenol	SW-846 8270D	180	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	Pentachlorophenol	SW-846 8270D	35	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B4	Phenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2-Chlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	2-Nitrophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	UJ	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1570835	PLA-CS-George Building-C8	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	4-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	4-Nitrophenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	Pentachlorophenol	SW-846 8270D	34	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C8	Phenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2-Chlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	2-Nitrophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	4-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	4-Nitrophenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	Pentachlorophenol	SW-846 8270D	35	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B5	Phenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2-Chlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	2-Nitrophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	4-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	4-Nitrophenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-D7	Pentachlorophenol	SW-846 8270D	34	ug/kg	UJ	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1570835	PLA-CS-George Building-D7	Phenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2-Chlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	2-Nitrophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	4-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	4-Nitrophenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	Pentachlorophenol	SW-846 8270D	34	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C7	Phenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2,4,5-Trichlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2,4,6-Trichlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2,4-Dichlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2,4-Dimethylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2,4-Dinitrophenol	SW-846 8270D	320	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2-Chlorophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2-Methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	2-Nitrophenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	4,6-Dinitro-2-methylphenol	SW-846 8270D	180	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	4-Chloro-3-methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	4-Methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	4-Nitrophenol	SW-846 8270D	180	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	Pentachlorophenol	SW-846 8270D	35	ug/kg	UJ	Low
1570835	PLA-CS-George Building-B7	Phenol	SW-846 8270D	18	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	UJ	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1570835	PLA-CS-George Building-C6	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	2-Chlorophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	2-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	2-Nitrophenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	4-Methylphenol	SW-846 8270D	17	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	4-Nitrophenol	SW-846 8270D	170	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	Pentachlorophenol	SW-846 8270D	35	ug/kg	UJ	Low
1570835	PLA-CS-George Building-C6	Phenol	SW-846 8270D	17	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D9	2,4,5-Trichlorophenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	2,4,6-Trichlorophenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	2,4-Dichlorophenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	2,4-Dimethylphenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	2,4-Dinitrophenol	SW-846 8270D	320	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	2-Chlorophenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	2-Methylphenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	2-Nitrophenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	4,6-Dinitro-2-methylphenol	SW-846 8270D	180	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	4-Chloro-3-methylphenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	4-Methylphenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	4-Nitrophenol	SW-846 8270D	180	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	Pentachlorophenol	SW-846 8270D	35	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D9	Phenol	SW-846 8270D	18	ug/kg	R	Low
1571386	PLA-CS-George_Bldg-D8	2,4-Dimethylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D8	2-Methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D8	4-Methylphenol	SW-846 8270D	18	ug/kg	UJ	Low
1571386	PLA-CS-George_Bldg-D8	Phenol	SW-846 8270D	18	ug/kg	UJ	Low
1571386	DUP-062215-001	2,4,5-Trichlorophenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	2,4,6-Trichlorophenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	2,4-Dichlorophenol	SW-846 8270D	17	ug/kg	R	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1571386	DUP-062215-001	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	2,4-Dinitrophenol	SW-846 8270D	310	ug/kg	R	Low
1571386	DUP-062215-001	2-Chlorophenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	2-Methylphenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	2-Nitrophenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	4,6-Dinitro-2-methylphenol	SW-846 8270D	170	ug/kg	R	Low
1571386	DUP-062215-001	4-Chloro-3-methylphenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	4-Methylphenol	SW-846 8270D	17	ug/kg	R	Low
1571386	DUP-062215-001	4-Nitrophenol	SW-846 8270D	170	ug/kg	R	Low
1571386	DUP-062215-001	Pentachlorophenol	SW-846 8270D	34	ug/kg	R	Low
1571386	DUP-062215-001	Phenol	SW-846 8270D	17	ug/kg	R	Low
1571673	PLA-CS-George_bldg-A7	2,4-Dimethylphenol	SW-846 8270D	17	ug/kg	R	Low
1571673	PLA-CS-George_bldg-A7	2-Methylphenol	SW-846 8270D	17	ug/kg	R	Low
1572804	IDW-S-LTFS	2,4,5-Trichlorophenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-LTFS	2,4,6-Trichlorophenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-LTFS	2-Methylphenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-LTFS	4-Methylphenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-LTFS	Pentachlorophenol	SW-846 8270C	0.005	mg/l	R	Low
1572804	IDW-S-POWER	2,4,5-Trichlorophenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-POWER	2,4,6-Trichlorophenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-POWER	2-Methylphenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-POWER	4-Methylphenol	SW-846 8270C	0.003	mg/l	R	Low
1572804	IDW-S-POWER	Pentachlorophenol	SW-846 8270C	0.005	mg/l	R	Low

Table 1.2.2d: Bias Related to Internal Standard Recovery

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1570838	PLA-S-GP-SB02-0-1	1,1,1,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	1,1,2,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	1,1,2-Trichloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	1,2,3-Trichlorobenzene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	1,2,3-Trichloropropane	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	1,2,4-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1570838	PLA-S-GP-SB02-0-1	1,2-Dibromo-3-chloropropane	SW-846 8260B	2	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	1,2-Dibromoethane	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	1,3,5-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	1,3-Dichloropropane	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	2-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	2-Hexanone	SW-846 8260B	3	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	4-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	Bromobenzene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	Bromoform	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	Chlorobenzene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	Dibromochloromethane	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	Ethylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	Isopropylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	m+p-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	n-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	n-Propylbenzene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	o-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	p-Isopropyltoluene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	sec-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	Styrene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	tert-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1570838	PLA-S-GP-SB02-0-1	Tetrachloroethene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	Toluene	SW-846 8260B	1	ug/kg	UJ	Low
1570838	PLA-S-GP-SB02-0-1	trans-1,3-Dichloropropene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	1,1,1,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	1,1,2,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	1,1,2-Trichloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	1,2,3-Trichlorobenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	1,2,3-Trichloropropane	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	1,2,4-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	1,2-Dibromo-3-chloropropane	SW-846 8260B	2	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	1,2-Dibromoethane	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	1,3,5-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	1,3-Dichloropropane	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	2-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	2-Hexanone	SW-846 8260B	3	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	4-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1571386	PLA-S-GP-SB04-0-1	Bromobenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	Bromoform	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	Chlorobenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	Dibromochloromethane	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	Ethylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	Isopropylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	m+p-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	n-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	n-Propylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	o-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	p-Isopropyltoluene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	sec-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	Styrene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	tert-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571386	PLA-S-GP-SB04-0-1	Tetrachloroethene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	Toluene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-GP-SB04-0-1	trans-1,3-Dichloropropene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	1,1,2,2-Tetrachloroethane	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	1,2,3-Trichlorobenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	1,2,3-Trichloropropane	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	1,2,4-Trimethylbenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	1,2-Dibromo-3-chloropropane	SW-846 8260B	2	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	1,3,5-Trimethylbenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	2-Chlorotoluene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	4-Chlorotoluene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	Bromobenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	n-Butylbenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	n-Propylbenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	p-Isopropyltoluene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	sec-Butylbenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-0-1	tert-Butylbenzene	SW-846 8260B	0.9	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	1,1,2,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	1,2,3-Trichlorobenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	1,2,3-Trichloropropane	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	1,2,4-Trimethylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	1,2-Dibromo-3-chloropropane	SW-846 8260B	3	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	1,3,5-Trimethylbenzene	SW-846 8260B	1	ug/kg	UJ	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1571386	PLA-S-FS-SB09-6-7	2-Chlorotoluene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	4-Chlorotoluene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	Bromobenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	n-Butylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	n-Propylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	p-Isopropyltoluene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	sec-Butylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571386	PLA-S-FS-SB09-6-7	tert-Butylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	1,1,1,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	1,1,2,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	1,1,2-Trichloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	1,2,3-Trichlorobenzene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	1,2,3-Trichloropropane	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	1,2,4-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	1,2-Dibromo-3-chloropropane	SW-846 8260B	3	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	1,2-Dibromoethane	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	1,3,5-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	1,3-Dichloropropane	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	2-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	2-Hexanone	SW-846 8260B	4	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	4-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	Bromobenzene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	Bromoform	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	Chlorobenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	Dibromochloromethane	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	Ethylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	Isopropylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	m+p-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	n-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
1571670	PLA-S-FS-SB07-15-16	n-Propylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	o-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	p-Isopropyltoluene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	sec-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	Styrene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	tert-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571670	PLA-S-FS-SB07-15-16	Tetrachloroethene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	Toluene	SW-846 8260B	1	ug/kg	UJ	Low
1571670	PLA-S-FS-SB07-15-16	trans-1,3-Dichloropropene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	1,1,1,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	1,1,2,2-Tetrachloroethane	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	1,1,2-Trichloroethane	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	1,2,3-Trichlorobenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	1,2,3-Trichloropropane	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	1,2,4-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	1,2-Dibromo-3-chloropropane	SW-846 8260B	2	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	1,2-Dibromoethane	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	1,3,5-Trimethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	1,3-Dichloropropane	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	2-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	2-Hexanone	SW-846 8260B	3	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	4-Chlorotoluene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	Bromobenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	Bromoform	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	Chlorobenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	Dibromochloromethane	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	Ethylbenzene	SW-846 8260B	1	ug/kg	UJ	Low

Group #	Sample ID	Test	Method	Validation Result	Units	Validation Qualifier	Bias
	16						
1571673	PLA-S-LT-SB06-15-16	Isopropylbenzene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	m+p-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	n-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	n-Propylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	o-Xylene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	p-Isopropyltoluene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	sec-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	Styrene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	tert-Butylbenzene	SW-846 8260B	1	ug/kg	R	Low
1571673	PLA-S-LT-SB06-15-16	Tetrachloroethene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	Toluene	SW-846 8260B	1	ug/kg	UJ	Low
1571673	PLA-S-LT-SB06-15-16	trans-1,3-Dichloropropene	SW-846 8260B	1	ug/kg	UJ	Low
1573610	PLA-S-LT-TP1-001	Benzene	SW-846 8260B	0.5	ug/kg	R	Low
1573610	PLA-S-LT-TP1-001	Ethylbenzene	SW-846 8260B	1	ug/kg	R	Low
1573610	PLA-S-LT-TP1-001	Toluene	SW-846 8260B	1	ug/kg	R	Low
1573610	PLA-S-LT-TP1-001	Xylene (Total)	SW-846 8260B	1	ug/kg	R	Low

Table 1.2.2e lists analytical results that were affected by bias due to contamination in associated field and laboratory QC blanks. The U indicates that the affected data were U qualified at the reporting limit (RL) and the J indicates that the data were qualified as estimated. The sample results affected have a high bias.

Table 1.2.2e: Blank Contamination Bias

Sample Group	Sample ID	Analyte	Method	Validation Result	Units	Validation Qualifier	Bias
1570838	PLA-S-GP-SB03-0-1	Sodium	SW-846 6010B	18.6	mg/kg	U	High
1570838	PLA-S-GP-SB03-3-4	Sodium	SW-846 6010B	18.6	mg/kg	U	High
1570838	PLA-S-GP-SB02-4.5-5.5	Sodium	SW-846 6010B	18.2	mg/kg	U	High
1570838	PLA-S-ROAD-SB10-0-1	Sodium	SW-846 6010B	19	mg/kg	U	High
1570838	PLA-S-GP-SB01-0-	Sodium	SW-846 6010B	19.8	mg/kg	U	High

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1570838	DUP-061915-001	Sodium	SW-846 6010B	113	mg/kg	U	High
1571386	PLA-CS-George_Bldg-D9	Antimony	SW-846 6010B	2.11	mg/kg	U	High
1571386	PLA-CS-George_Bldg-D8	Antimony	SW-846 6010B	2.11	mg/kg	U	High
1571386	PLA-S-Road-SB12-0-1	Antimony	SW-846 6010B	2.21	mg/kg	U	High
1571386	PLA-S-Road-SB12-7-8	Antimony	SW-846 6010B	2.16	mg/kg	U	High
1571386	PLA-S-FS-SB09-0-1	Antimony	SW-846 6010B	2.14	mg/kg	U	High
1571386	PLA-S-FS-SB09-6-7	Antimony	SW-846 6010B	2.34	mg/kg	U	High
1571670	PLA-S-FS-SB08-0-1-DUP	Selenium	SW-846 6010B	2.2	mg/kg	U	High
1571670	PLA-S-FS-SB07-0-1	Selenium	SW-846 6010B	2.12	mg/kg	U	High
1571670	PLA-S-FS-SB07-15-16	Selenium	SW-846 6010B	2.49	mg/kg	U	High
1571673	PLA-CS-George_bldg-A7	Acetone	SW-846 8260B	21	ug/kg	U	High

The frequency of field blanks, equipment blanks, trip blanks, and method blanks met the requirements for the project and supports the DQOs.

The high bias due to blank contamination listed in Table 3e resulted in estimated values between the method detection limits (MDLs) and RLs to be elevated to the RLs or, in just a few instances, the detected result above the RL was J qualified as estimated. The results elevated to the RL are still usable for meeting project required RLs and the estimated values are usable within the limitations of the qualifications.

Table 1.2.2f lists sample results that were UJ and J qualified as estimated with low biases due to extraction and/or analyses past the method holding times.

Table 1.2.2f: Missed Holding Time Biases

Sample Group	Sample ID	Analyte	Method	Result	Units	Validation Qualifier	Bias
1575964	IDW-S-LTFS	PCB-1016	SW-846 8082	4.3	ug/kg	UJ	Low
1575964	IDW-S-LTFS	PCB-1221	SW-846 8082	5.5	ug/kg	UJ	Low
1575964	IDW-S-LTFS	PCB-1232	SW-846 8082	9.6	ug/kg	UJ	Low
1575964	IDW-S-LTFS	PCB-1242	SW-846 8082	3.9	ug/kg	UJ	Low
1575964	IDW-S-LTFS	PCB-1248	SW-846 8082	3.9	ug/kg	UJ	Low
1575964	IDW-S-LTFS	PCB-1254	SW-846 8082	58	ug/kg	J	Low
1575964	IDW-S-LTFS	PCB-1260	SW-846 8082	5.9	ug/kg	UJ	Low
1575964	IDW-S-LTFS	Total PCBs	SW-846 8082	58	ug/kg	J	Low
1575964	IDW-S-VPPLAGEN	PCB-1016	SW-846 8082	4.3	ug/kg	UJ	Low
1575964	IDW-S-VPPLAGEN	PCB-1221	SW-846 8082	5.5	ug/kg	UJ	Low
1575964	IDW-S-VPPLAGEN	PCB-1232	SW-846 8082	9.6	ug/kg	UJ	Low

Sample Group	Sample ID	Analyte	Method	Result	Units	Validation Qualifier	Bias
1575964	IDW-S-VPPLAGEN	PCB-1242	SW-846 8082	4	ug/kg	UJ	Low
1575964	IDW-S-VPPLAGEN	PCB-1248	SW-846 8082	4	ug/kg	UJ	Low
1575964	IDW-S-VPPLAGEN	PCB-1254	SW-846 8082	4	ug/kg	UJ	Low
1575964	IDW-S-VPPLAGEN	PCB-1260	SW-846 8082	5.9	ug/kg	UJ	Low
1575964	IDW-S-VPPLAGEN	Total PCBs	SW-846 8082	4	ug/kg	UJ	Low

1.2.3 Representativeness and Comparability

Representativeness is a qualitative measurement that describes how well the analytical data characterizes an area of concern. Many factors can influence how representative the analytical results are for an area sampled. These factors include the selection of appropriate analytical procedures, the sampling plan, matrix heterogeneity and the procedures and protocols used to collect, preserve, and transport samples.

Comparability refers to the equivalency of sets of data. This goal is achieved through the use of standard or similar techniques to collect and analyze representative samples. Per the specifications of the project specific SAP, Section 9.5, the three elements evaluated for comparability are analytical methods, quality of the data, and the sampling design.

For the purposes of this DUE, it was noted that the data are considered representative and comparable based on the analytical methodologies employed by the laboratories. EPA SW846 methodology for sample preparation and sample analysis were listed in the laboratory reports.

1.2.4 Completeness

Completeness is a quantitative measure that is used to evaluate how many valid analytical data were obtained in comparison to the amount that was planned. Completeness is expressed as a percentage of usable analytical data. A subset of the data assessed in this DUE was found to be rejected based on the information provided by the DQA. Therefore, the completeness percentage goal of 100% as specified in Section 9.3 of the project specific SAP was not met. The completeness percentage includes data that are J and UJ qualified as estimated and U qualified as elevated to the project quantitation limit but not R qualified as rejected. The percent completeness for the project is 98.3%.

1.2.5 Sensitivity

Sensitivity is related to the project quantitation limit (PQL) or reporting limit (RL). In this context, sensitivity refers to the capability of a method or instrument to detect a given analyte at a given concentration and reliably quantitate the analyte at that concentration. Some elevated non-detect results were reported in the data due to sample dilutions.

Table 1.2.5a lists the MDLs and or/RLs that either did not conform to the limits in the SAP or were not listed in the SAP. In general, the MDLs and/or the PQLs were less than the applicable standard and/or screening level listed in Table 2 of the SAP with the following exceptions.

1.2.5.1 Metals by EPA Method 6010B

The laboratory reported method detection limits (MDLs) met the reporting limits (RLs) listed in Table 2 of the Sampling and Analysis Plan (SAP) for soils and waters with the following exceptions.

The water MDLs for antimony, 5.1 µg/L, and arsenic, 7.2 µg/L, did not meet the RLs listed in Table 2 of the SAP, 3 µg/L and 1 µg/L, respectively.

1.2.5.2 PCBs by EPA Method 8082

The laboratory reported MDLs met the RLs listed in Table 2 of the SAP for soils and waters.

1.2.5.3 VOCs by EPA Method 8260B

The laboratory reported MDLs met the RLs listed in Table 2 of the SAP for soils and waters, with the following exceptions.

The water MDL for acetone, 6.0 µg/L, did not meet the RL listed in Table 2 of the SAP, 5 µg/L.

The soil MDL for acetone, 0.007 mg/kg, did not meet the RL listed in Table 2 of the SAP, 0.005 mg/kg.

1.2.5.4 SVOCs by EPA Method 8270D

The laboratory reported MDLs met the RLs listed in Table 2 of the SAP for soils and waters, with the following exceptions.

The water MDLs for butyl benzyl phthalate, 2.0 µg/L, diethyl phthalate, 2.0 µg/L, dimethyl phthalate, 2.0 µg/L, 2,4-dinitrotoluene, 1.0 µg/L, 2,6-dinitrotoluene, 0.50 µg/L, and N-nitrosodi-n-propylamine, 0.50 µg/L did not meet the RLs listed in Table 2 of the SAP, 1.6 µg/L, 1.6 µg/L, 1.6 µg/L, 0.800 µg/L, 0.400 µg/L, and 0.400 µg/L, respectively.

The soil MDL for benzidine, 0.700 mg/kg, did not meet the RL listed in Table 2 of the SAP, 0.670 mg/kg.

1.2.5.5 OTHER

RLs were not listed in the QAPP for the TCLP methods and wet chemistry parameters.

TABLE 1.2.5a: MDLs and RLs Exceeding SAP Limits Analysis

Method	Analyte	Matrix	Reported MDL	SAP RL
Metals 6010B	Antimony	Water	5.1 µg/L	3 µg/L
Metals 6010B	Arsenic	Water	7.2 µg/L	1 µg/L
VOCs 8260B	Acetone	Water	6.0 µg/L	5 µg/L
VOCs 8260B	Acetone	Soil	0.007 mg/kg	0.005 mg/kg
SVOCs 8270D	Diethyl Phthalate	Water	2.0 µg/L	1.6 µg/L
SVOCs 8270D	Dimethyl Phthalate	Water	2.0 µg/L	1.6 µg/L
SVOCs 8270D	2,4-Dinitrotoluene	Water	1.0 µg/L	0.800 µg/L
SVOCs 8270D	2,6-Dinitrotoluene	Water	0.50 µg/L	0.400 µg/L
SVOCs 8270D	N-Nitrosodi-N-Propylamine	Water	0.50 µg/L	0.400 µg/L
SVOCs 8270D	Benzidine	Soil	0.700 mg/kg	0.670 mg/kg

1.3 Chain of Custody Review

The chain of custody (COC) is an important legal document that tracks the samples from collection through shipping and handling, preparation and analysis and finally disposal. During the DQA process the COCs associated with the data were reviewed for completeness and accuracy. No issues were identified during the DQA.

2. REFERENCES

Entact LLC. *Sampling and Analysis Plan for the Newporte Landing Development Site Pine Lake Avenue Parcel, La Porte, Indiana*, June 2015

USEPA. *National Functional Guidelines for Superfund Organic Methods Data Review*, August 2014 (OSWER 9355.0-132, EPA 540-R-014-002)

USEPA. *National Functional Guidelines for Inorganic Superfund Data Review*, August 2014 (OSWER 9355.0-131, EPA 540-R-013-001)