QUARTERLY MONITORING REPORT
Third Quarter 2016, CAPA Approval Request

The Service Station
301 East Main Street
North Manchester, Indiana
IDEM Incident # 9701519
Facility ID # 16165

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EXECUTIVE SUMMARY

This document details third quarter 2016 monitoring for fuel release incident #1997-01-519 at The Service Station, 301 East Main Street, North Manchester, Wabash County, Indiana (hereinafter referred to as the site). Quarterly monitoring consists of groundwater sampling, product abatement, and monitoring conditions in residential basements south adjacent to the site.

Groundwater sampling was conducted on 10-Aug-16. Sampling included gauging the depth to groundwater, collecting groundwater samples, and laboratory analyses. Light non-aqueous phase liquid (LNAPL) was observed at MW-15, MW-17, EX-3, and EX-4. Groundwater flow direction was to the south-southeast. Petroleum constituent concentrations at offsite wells MW-15, MW-16, MW-17, MW-18, MW-19, MW-21, MW-22, MW-24, and MW-25 exceeded industrial default closure levels.

Monthly basement monitoring was conducted at 103 Mill Street and 103 ½ Mill Street pursuant to IDEM request. Monitoring included screening indoor basement air at both residential dwellings with a photoionization detector (PID), a visual inspection of sumps, and collection of sump water samples. Monitoring was conducted on 20-Jul-16, 10-Aug-16, and 28-Sep-16. There were no significant PID responses, odors, or petroleum concentrations in sump samples.

Monthly manual product abatement was conducted this quarter and approximately 8.54 gallons of product was recovered. Measurable LNAPL was observed at MW-15, MW-17, EX-3, and EX-4 located adjacent to the dwelling at 103 ½ Mill Street in during each event.

A corrective action plan addendum (CAPA) was submitted to IDEM in February 2015. The plan specified targeted soil removal and dual-phase extraction (DPE) to address free-phase gasoline, prevent further lateral migration, and reduce petroleum concentrations in soil and groundwater. IDEM has yet to provide comments on the submitted plan. SES again requests CAPA review and approval.

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1.0 INTRODUCTION

This report details third quarter 2016 groundwater monitoring for release incident 1997-01-519 at The Service Station, 301 East Main Street, North Manchester, Wabash County, Indiana (hereinafter referred to as the site). Quarterly monitoring consists of monthly product abatement, groundwater quarterly sampling, and monthly monitoring conditions in residential basements south adjacent to the site.

This report begins by presenting general background information consisting of site conditions, previous environmental investigations, and corrective action conducted at the site. The background section is followed by details concerning groundwater sampling methods and results. Basement monitoring methods and results are then presented, followed by product abatement methods. The report concludes with opinion and recommendations. Figures are provided at the conclusion of the text. Supporting documentation including laboratory testing reports, compilation tables, and a corrective action progress report are presented in the appendices.

2.0 BACKGROUND

The following provides a summary of background information reproduced from previous reports.

- The site is located at the southeast intersection of East Main (SR 114) and Mill Streets in North Manchester, Indiana. The property measures approximately 75 feet north to south and 150 feet east to west. A single building is located over the south-central portion of the property (Figure 1).

- Fueling operations were conducted at the facility prior to the 1970s through 1998. The site currently houses a vehicle repair business. Site surfaces consist primarily of asphalt.

- The site is immediately surrounded by residential and commercial properties. The Eel River is located approximately 1/8-mile southwest of the site.

- Subsurface utilities at the site include water, sanitary sewer, natural gas, and telephone.

- An area water well log record search conducted in 1997 indicated the nearest water wells to the site are located approximately ¼ mile east. Two wells associated with the local municipal water utility are reportedly present at this location.

- Environmental investigation was initiated in late 1996 as part of a potential real estate transaction involving the site property and consisted of eight soil borings (B-1 through B-8 in Figure 1). Results of this investigation indicated a gasoline release has occurred at the facility, impacting soil and ground water. Free-phase petroleum (<1/8 inch) was encountered on the water table at B-4 and B-8.

- Initial site characterization was conducted in 1997 and included the completion of 14 soil borings to depths ranging between three and 22 feet (B-9 through B-22) (Figure 1). Temporary groundwater sampling points were installed at each location. Soil encountered at the boring locations consisted of silt and clay with interbedded saturated layers of sand and gravel. Impacted soil and ground water extended from the northwest portion of the site to the south and west, generally within the upper ten feet of the soil profile. Petroleum migration extended approximately 100 feet off site to the southwest.

- Five underground petroleum storage tanks (USTs) and all associated fuel supply lines were closed by removal in 1998. The tanks were located west of the station building. Three tanks contained gasoline, one tank contained waste oil, and the remaining tank contained fuel oil. Approximately sixty cubic yards of soil were removed from the tank basin and transported to a landfill for disposal. Approximately 250 gallons of sludge were generated during tank removal and properly disposed. Tanks and associated piping were transported to a scrap-metal facility for disposal. Tank closure details are provided in a report titled, *Underground Storage Tank Closure,* dated 5-Jan-99.

- Ten permanent groundwater monitor wells (MW-1 through MW-10 on Figure 1) were installed in September 1999 to depths ranging between eight and 14.5 feet. Details concerning well installation are provided in a report titled, *Permanent Groundwater Monitor Well Installation,* dated 31-Jan-00.

- SES conducted a remediation pilot test in 2000 to determine the technical feasibility of vacuum-enhanced recovery (VER). Test results indicated VER technology would be an effective means to address site contamination; details concerning the

pilot test are presented in the report titled, *Pilot Test for Determining Remediation Feasibility of Vacuum-Enhanced Recovery*, dated 13-Dec-00.

- A corrective action plan (CAP) specifying an integrated approach consisting of targeted soil removal and groundwater extraction (as necessary) paired with MNA was submitted to the agency on 13-Feb-01. This integrated approach was determined to be more immediate and cost-effective than VER technology. The CAP was approved by the agency in correspondence dated 10-Apr-01.

- CAP implementation was initiated by removing soil from north and west of the station building, extending off-site to the south adjacent residence and west into the Mill Street right-of-way (Figure 1). Excavation was conducted in five phases between 21-Jan-02 and 25-Jan-02 and consisted of removing 1,972 cubic yards of soil and 15,570 gallons of groundwater. Monitor wells MW-4 and MW-9 were destroyed during excavation. Soil excavation details (including soil/groundwater disposal records) are provided in the report entitled, *Environmental Corrective Action Progress Report – Soil Excavation*, dated 31-Jul-02.

- Additional investigation was conducted along a municipal water main (west of site) to assess the potential for preferential petroleum migration through non-native material surrounding the line. The investigation consisted of nine hand-auger soil borings (HA-1 through HA-9 on Figure 1) completed on 16-May-02. Residual-phase petroleum was detected along portions of the line and beneath the south residential property. Details concerning this investigation, along with recommendations are reported in *Environmental Investigation Findings and Recommendations for Proceeding with CAP*, dated 28-Aug-02.

- Five monitor wells were installed in August and September 2002. The monitor wells are identified as MW-9a, MW-11, MW-12, MW-13, and MW-14 (Figure 1). Monitor well MW-9a was installed to replace MW-9, which was destroyed during the initial soil excavation. The remaining wells were installed to determine groundwater conditions within the former source area (MW-13 and MW-14) and to more completely define the extent of aqueous-phase petroleum (MW-11 and MW-12).

- Quarterly groundwater monitoring was initiated in the third quarter of 2002 to assess monitored natural attenuation (MNA).

- Additional soil excavation (Figure 1) was conducted in January 2003 to address petroleum-contaminated soil present off-site to the south and west, as recommended in the report entitled *Environmental Investigation Findings and Recommendations for Proceeding with CAP* dated 28-Aug-02. Approximately 874 tons of soil was removed. Free-phase petroleum was encountered within a sand lens occurring at a depth of eleven feet. Results are detailed in the report titled, *Environmental Corrective Action Progress Report – Additional Soil Excavation*, dated 15-Aug-03.

- Recovery well RW-1 was installed in September 2003 in response to encountering free-phase petroleum during the January 2003 excavation. RW-l was positioned adjacent to the southwest adjacent off-site residential structure (Figure 1). Free-phase petroleum was not encountered.

- IDEM in correspondence dated 19-Apr-04 indicated MNA was impractical.

- In correspondence dated 23-Mar-07, IDEM requested groundwater treatment events and a Corrective Action Plan Addendum. IDEM requested biweekly enhanced fluid recovery (EFR) events at MW-9a and RW-1 and an indoor air evaluation at the two adjacent residential properties south of the site.

- In correspondence dated 26-Sep-07 IDEM approved a requested time extension for the submittal of a Corrective Action Plan Addendum. IDEM also approved the addition of MW-13 to the monitor wells that require EFR events.

- Soil vapor survey and EFR were proposed in SES correspondence dated 22-Oct-07 titled, *CAP Addendum*. In correspondence dated 9-Apr-08, IDEM approved conducting EFR at MW-9a, MW-13, and RW-1; however, the agency determined that current groundwater data did not support EFR events. IDEM requested completion of a soil vapor survey and notification should future groundwater data support EFR guidelines.

- A soil vapor survey was conducted in June 2008 near the adjacent off-site residential structures. The survey consisted of installing five soil vapor points, collecting soil vapor samples, and laboratory analysis (BTEX/MTBE, TPH C_4-C_{12}, oxygen, carbon dioxide, and methane). Petroleum constituents were not detected in any of the vapor samples. Additional details are provided in correspondence titled, *Additional Investigation – Soil Vapor Survey*, dated 15-Aug-08.

- IDEM correspondence dated 29-Aug-08 denied a request to conduct EFR based on groundwater elevations. A review of MTBE concentrations verses groundwater depth indicated a relationship between high MTBE levels and a groundwater depth of approximately five feet. IDEM requested the quarterly sampling monitor well array be reduced from 14 wells to the following seven wells: MW-2, MW-3, MW-9a, MW-10, MW-11, MW-13, and RW-1. The agency specified depth to groundwater data collection should continue at all monitor wells.

- In correspondence dated 19-Dec-08 IDEM requested an evaluation of the off-site residential basements and collecting groundwater samples from sumps, if applicable. IDEM indicated EFR events should be postponed pending additional quarterly monitoring results.

- A review of historical reports was conducted in response to IDEM correspondence dated 29-Aug-08 and findings were included in a *Corrective Action Progress Report, Third Quarter 2008* dated 29-Dec-08. The review indicated there were three issues preventing incident closure. Petroleum concentrations in soil exceeded closure levels and the extent of soil contamination was undefined. Petroleum concentrations in groundwater beneath the south adjoining property exceeded RDCLs and free-phase petroleum may still be present beneath the residential property to the south. SES recommended further investigation to define the extent of TPH in soil around the station building and at the residential property to the south (103 Mill Street).

- In correspondence dated 31-Mar-09, IDEM requested a soil sampling work plan for the activities proposed in the Dec-08 report. In addition, the agency requested re-sampling of soil vapor probes. Monthly EFR events with the installation of new extraction wells next to MW-9 and RW-1 was also requested.

- Residential basements were evaluated on 25-Mar-09. Results indicated 103 Mill Street was a "wet" basement and petroleum compounds were detected in the sump water sample. A water sample collected from the 103 ½ Mill Street sump exhibited MTBE impact. In order to address impact at 103 Mill Street, SES recommended EFR at an extraction well within native soil between RW-1 and the west basement wall. SES specified the well should be screened to intercept sand layers that extend beneath the basement, as well as the sand interval where free phase product was noted during the 2003 excavation. SES also recommended monthly basement inspections, including indoor air screening with a PID.

- Two extraction wells (EX-1 and EX-2) were installed on 15-Jun-09. As requested by IDEM, the wells were located next to MW-9a and RW-1. Additional details are provided in a report titled, *Corrective Action Addendum Implementation,* dated 7-Oct-09.

- In correspondence dated 29-Jul-09, IDEM approved extraction well installation near RW-1. IDEM also requested an extraction well to be installed near 103 ½ Mill Street to mitigate the dissolved MTBE encountered at the sump. A monitor well was also requested for this area. IDEM approved three monthly, four hour EFR events from each extraction well. The monthly basement inspections at 103 Mill Street were approved; however, the agency requested the sump be modified with a cover to reduce volatilization. Quantitative indoor air sampling was requested at both residences.

- EFR events were conducted at off-site wells EX-1 and EX-2 on 18-Sep-09, 22-Oct-09, and 19-Nov-09. Approximately 2,650 gallons of groundwater was extracted.

- Further site investigation was conducted during the first quarter 2010. The investigation consisted of advancing eight soil borings (B-23 through B-30), installing one monitor well (MW-15), indoor air screening, and basement inspections. Impacted soil was detected at MW-15 (B-27) advanced adjacent to the station building and 103 ½ Mill Street. The TPH-GRO concentration in soil exceeded the IDCL. Additional investigation was recommended at locations east and south of B-27/MW-15 to further assess the lateral extent of TPH in soil. VOCs were detected in indoor air (at 103 and 103 ½ Mill Street); however, concentrations did not exceed residential indoor air action levels. Continued monitoring was recommended. Petroleum constituents were detected in groundwater at MW-9a, MW-13, RW-1, EX-1, and EX-2 and free-phase gasoline was detected at MW-15. Continued quarterly monitoring was recommended, along with bi-monthly abatement at MW-15, and the installation of monitor wells east and south of MW-15. Additional details are provided in a report titled, *Further Site Investigation,* dated 14-May-10.

- IDEM correspondence dated 7-Jul-10 approved additional monitor well installation outward from MW-15 and monthly free product abatement. The agency also requested monthly sump sampling and indoor air screening at 103 and 103 ½ Mill Street.

- Further site investigation was conducted during the third quarter of 2010. The investigation consisted of advancing three soil borings (B-31, B-32, and B-33), installing two monitor wells (MW-16 and MW-17), and monthly residential indoor air screening and basement sump sampling at 103 and 103 ½ Mill Street. The extent of petroleum in soil was defined and impact appeared to be concentrated between a depth of 4 and 10 feet. Free-phase gasoline was detected at MW-15 and MW-17 and petroleum constituents were detected in groundwater at MW-9a, MW-13, MW-16, RW-1, EX-1, and EX-2. Basement monitoring detected no significant accumulation of petroleum. Continued quarterly monitoring, monthly residential basement monitoring, and the installation of three additional monitor wells were recommended. Additional details are provided in a report titled, *Further Site Investigation,* dated 7-Jan-11.

- Further site investigation was conducted during the first quarter of 2011. The investigation consisted of installing three monitor wells (MW-18, MW-19, and MW-20) and monthly residential indoor air screening and basement sump sampling at

103 and 103 ½ Mill Street. Impact at basement areas was not inferred. Free-phase gasoline was detected at MW-15 and petroleum constituents were detected in groundwater at MW-13, MW-16, MW-17, MW-18, MW-19, MW-20, RW-1, EX-1, and EX-2. The extent of impacted groundwater remained undefined to the southeast. Additional details are provided in a report titled, *Further Site Investigation*, dated 21-Jun-11.

- Further site investigation was conducted during the fourth quarter of 2011. The investigation consisted of installing two monitor wells (MW-21 and MW-22), groundwater gauging/sampling, and monitoring conditions in residential basements. Petroleum constituents were detected in groundwater at MW-5, MW-9a, MW-11, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, RW-1, EX-1, and EX-2. The extent of impacted groundwater remained undefined to the southeast. VOCs were detected in indoor air at 103 Mill Street. Concentrations exceeded action levels. Additional details are provided in a report titled *Further Site Investigation* dated 27-Jan-12.

- A site meeting was held on 9-Feb-12. IDEM and SES personnel met to discuss current site conditions and potential remediation options for off-site contamination. In addition to requesting a CAPA, IDEM requested VOC sampling at MW-15, MW-16, MW-17, MW-18, EX-1 and the residential sumps.

- A *Corrective Action Plan Addendum* (CAPA) was submitted to IDEM in March 2012. The CAPA detailed extraction well installation and bi-monthly EFR events to address off-site contamination to the southeast. EFR events would be conducted for one quarter and site conditions would be re-evaluated. If conditions warrant active remediation, the EFR data will be used to design a full scale system.

- Investigation was conducted in March 2012 to further assess the extent of petroleum in groundwater and to monitor conditions in residential basements. The investigation consisted of installing three monitor wells (identified as MW-23, MW-24, and MW-25), groundwater sampling/testing and residential air screening/sampling. Petroleum constituents were detected in groundwater at MW-2, MW-9a, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, RW-1, EX-1, and EX-2. Concentrations at MW-2, MW-15, MW-16, MW-17, MW-18, MW-19, MW-22, MW-23, MW-24, MW-25, EX-1, and EX-2 exceeded applicable default closure levels. Sump water was sampled at both off-site residential properties south of the Service Station. MTBE was detected at 103 ½ Mill Street in January and February, but concentrations were below RDCLs. Petroleum constituents were not detected in the remaining sump water samples. Investigation results indicated a plume of benzene and MTBE extends from the site at least 160 feet to the southeast; however, further investigation would be required to define the plume extent. Additional details are provided in a report titled, *Further Site Investigation Report*, dated 19-Jul-12.

- Extraction wells were installed near MW-15 and MW-17 on 27-Jul-12. The wells are identified as EX-3 and EX-4 on Figure 1. The extraction wells were installed to facilitate EFR events. As requested by IDEM during the 9-Feb-12 meeting, soil samples were retained at EX-3 and EX-4 and were analyzed for VOCs.

- Enhanced fluid recovery (EFR) was conducted six times at off-site extraction wells EX-3 and EX-4 between 7-Aug-12 and 17-Oct-12. A cumulative 6,210 gallons of water were recovered. Measurable hydraulic reaction was recorded at locations up to 100 feet from the extraction wells. Vacuum was observed within 50 feet of extraction wells. SES recommended additional investigation to complete groundwater benzene and MTBE delineation. SES also recommended conducting monthly EFR events at EX-3 and EX-4 during delineation. SES specified that once contamination is defined, a full scale MPE system could be designed to recover LNAPL and reduce groundwater concentrations. Additional details are provided in a report titled, *Corrective Action Plan Addendum #2 Implementation Report, Third and Fourth Quarter 2012*, dated 11-Feb-13.

- Petroleum impacted soil was encountered during storm sewer installation immediately west of the site within the Mill Street right-of-way on April 12, 2013. The fuel stained soil was removed, loaded into trucks, and transported under manifest control to the Hoosier Landfill in Claypool, Indiana. Records indicate 353.20 tons of impacted soil was transported to the landfill. Monitor well MW10 was destroyed during this sewer pipeline construction project. Additional details are provided in SES's *Municipal Storm Sewer Installation* report dated 14-Jun-13.

- In correspondence dated 16-May-13, IDEM reviewed and approved the *Corrective Action Plan Addendum #2 Implementation Report, Third and Fourth Quarter 2012*. IDEM specified monthly EFR events could be conducted until delineation is completed and CAPA #3 is submitted.

- Additional investigation was conducted at the site in August 2013 to further assess the nature and extent of petroleum contamination. The investigation consisted of installing three monitor wells (MW-26, MW-27, and MW-28) southeast of the site. Investigation results indicated clay soil extends from the near surface to a depth of at least 18 feet southeast of the site. Groundwater samples were obtained at existing wells MW-2, MW-3, MW-5, MW-8, MW-9a, MW-10, MW-11, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25 and the three new wells MW-26, MW-27, and MW-28. Groundwater elevation data indicated flow direction was to the southeast. Free phase product was observed at MW-15, MW-16, MW-17, EX-3, and EX-4. Petroleum constituent concentrations at offsite wells

MW-15, MW-16, MW-17, MW-18, MW-19, MW-21, MW-22, MW-24, MW-25, MW-27, and MW-28 exceeded RDCLs. Further investigation was proposed to finish defining the MTBE plume extent. Additional details are provided in SES's *Further Site Investigation Report* dated 25-Nov-13.

- Additional investigation was conducted at the site in April 2014 to further assess the nature and extent of petroleum contamination. The investigation consisted of installing three monitor wells (MW-29, MW-30, and MW-31) southeast of the site. Investigation results indicated clay soil extends from the near surface to a depth of at least 18 feet southeast of the site. Groundwater samples were obtained at existing wells MW-2, MW-3, MW-5, MW-8, MW-9a, MW-10, MW-11, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, 26, 27, 28, and the three new wells MW-29, MW-30, and MW-31. Groundwater elevation data indicated flow direction was to the southeast. Free phase product was observed at MW-15, MW-17, and EX-3. Petroleum constituent concentrations at offsite wells MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-24, MW-25, and MW-27 exceeded RDCLs. Further investigation was proposed to determine soil conditions and to screen for impact south of MW-21 and west of MW-25. Additional details are provided in SES's *Further Site Investigation Report* dated 28-Jul-14.

- Additional investigation was conducted at the site in November 2014 to further assess the nature and extent of petroleum contamination. The investigation consisted of installing one monitor well (MW-32) to the south of the site between MW-5 and MW-25. Investigation results indicated clay soil extends from near surface to depth of at least 7 feet south of the site. Groundwater samples were obtained at existing wells MW-2, MW-3, MW-5, MW-8, MW-9a, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, and the new well MW-32. Groundwater elevation data indicated flow direction was to the southeast. Free phase product was observed at MW-15, MW-17, and EX-3. Petroleum constituent concentrations at offsite wells MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-24, MW-25, and MW-27 exceeded RDCLs. A *Corrective Action Plan Addendum* was proposed to address the offsite impact. Additional details are provided in SES's *Further Site Investigation Report* dated 21-Jan-15.

- A corrective action plan addendum (CAPA) was submitted to IDEM in February 2015. The plan specified targeted soil removal and dual-phase extraction to address free-phase gasoline, prevent further lateral migration, and reduce petroleum concentrations in soil and groundwater. Additional details are provided in SES's *Corrective Action Plan Addendum #3*, dated 16-Feb-15.

- In a CAPR dated 25-Jan-16, SES requested CAPA approval due to plume expansion and LNAPL at offsite residential areas.

3.0 GROUNDWATER SAMPLING

Groundwater sampling was conducted on 10-Aug-16. Sampling was initiated by removing caps from monitor and extraction/recovery wells. Each well was allowed to equilibrate with ambient pressure for a period of thirty minutes. Depth to water was then measured using an electronic wire-line water level indicator to an accuracy of 0.01 feet. A hydrocarbon interface probe was used to collect measurements at MW-15, MW-16, MW-17, EX-3, and EX-4. The meters were decontaminated prior to use and between each well location using an Alconox™ detergent wash, followed by a tap water rinse.

Groundwater gauging and elevation data is summarized in the following table. Groundwater flow direction was to the south-southeast (Figure 2). A compilation of groundwater elevation data is provided in Appendix A.

Table 1. Relative Groundwater Elevations (10-Aug-16)
The Service Station, North Manchester, Wabash County

Well ID	Screened Interval (feet)	Top-of-Casing Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Groundwater Elevation (feet)
MW-1	4.5 – 14.5	100.00	3.66	-	96.34
MW-2	4.5 – 14.5	100.10	11.43	-	88.67
MW-3	2.5 – 12.5	100.89	4.81	-	96.08
MW-5	8.0 – 13.0	95.49	7.86	-	87.63
MW-6	8.0 – 13.0	93.49	9.05	-	84.44
MW-7	4.0 – 11.0	94.60	8.78	-	85.82
MW-8	4.0 – 14.0	99.09	7.29	-	91.80
MW-9a	4.0 – 9.0	98.09	5.95	-	92.14
MW-11	8.0 – 13.0	98.49	9.11	-	89.38
MW-12	2.5 – 12.5	96.19	7.23	-	88.96
MW-13	4.0 – 11.0	100.82	4.48	-	96.34
MW-14	2.5 – 12.5	99.94	5.08	-	94.86
MW-15	6.0 – 16.0	98.57	10.13	0.20	88.59*
MW-16	6.0 – 16.0	98.15	9.90	0.00	88.25
MW-17	6.0 – 16.0	97.80	9.95	0.72	88.40*
MW-18	6.0–16.0	97.34	8.85	-	88.49
MW-19	5.0–15.0	96.50	8.05	-	88.45
MW-20	6.0–16.0	96.50	8.03	-	88.47
MW-21	3.0-13.0	96.10	7.71	-	88.39
MW-22	5.0-15.0	96.20	7.86	-	88.34
MW-23	5.0-15.0	95.70	7.35	-	88.35
MW-24	5.0-15.0	95.16	7.01	-	88.15
MW-25	5.0-15.0	93.42	5.28	-	88.14
MW-26	9.0-19.0	94.55	16.69	-	77.86
MW-27	6.0-16.0	92.09	11.30	-	80.79
MW-28	8.0-18.0	90.93	12.11	-	78.82
MW-29	9.0-19.0	89.25	13.63	-	75.62
MW-30	9.0-19.0	89.55	14.11	-	75.44
MW-31	9.0-19.0	92.22	16.93	-	75.29
MW-32	4.0-14.0	93.90	5.31	-	88.59
EX-3	4.0-14.0	97.48	9.49	0.54	88.40*
EX-4	3.0-18.0	97.14	8.78	0.03	88.38*

*Indicates elevation was corrected for LNAPL thickness (0.76 density)

Following gauging, groundwater samples were obtained at MW-2, MW-3, MW-5, MW-8, MW-9a, MW-11, MW-12, MW-13, and MW-15 through MW-32. Abatement of product was conducted prior to sampling at MW-15 and MW-17. Monitor wells were purged and sampled using single-use, factory-sealed, polyethylene bailers. A new bailer was utilized at each well location. Approximately three well volumes were purged from each location prior to sampling. Groundwater was discharged directly into two, laboratory-supplied 40-mL vials containing a hydrochloric acid preservative. The sample vials were filled completely, leaving no visible headspace. Samples were analyzed for benzene, toluene, ethylbenzene, xylenes (mixed), and methyl-tertiary-butyl-ether (BTEX/MTBE) in accordance with SW846 Method 8260.

Quality-control samples consisted of a trip blank and two blind duplicates. The trip blank was prepared by filling two 40-mL glass vials with distilled water prior to initiating field activities. The trip blank remained with the groundwater samples throughout sample collection and transport to the laboratory. Two blind duplicate samples were collected at MW-19 and MW-22 by filling additional 40-mL glass vials. The duplicate samples were identified as “MW-35” and “MW-36”, respectively. Quality-control samples were analyzed for BTEX/MTBE.

All samples were labeled, entered into chain-of-custody management, and placed in a cooler filled with ice for transport to ENVision Laboratories, Indianapolis, Indiana.

Groundwater testing results are summarized in Table 2 and are also depicted on Figure 3. Petroleum constituents were detected in groundwater at MW-5, MW-9a, MW-13, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-24, MW-25, MW-27, and MW-32. Constituent concentrations at MW-15, MW-16, MW-17, MW-18, MW-19, MW-21, MW-22, MW-24, and MW-25 exceed IDCLs. A laboratory analytical report is provided in Appendix C. A compilation of groundwater testing results is presented in Appendix A.

Table 2. Groundwater BTEX/MTBE Concentrations (10-Aug-16)
The Service Station, North Manchester, Wabash County

Well ID	Location	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-2	On-Site	<5	<5	<5	<10	<5
MW-3	On-Site	<5	<5	<5	<10	<5
MW-5	Off-site	<5	<5	<5	<10	7.11
MW-8	On-site	<5	<5	<5	<10	<5
MW-9a	Off-Site	<5	<5	<5	<10	**42.2**
MW-11	Off-Site	<5	<5	<5	<10	<5
MW-12	Off-Site	<5	<5	<5	<10	<5
MW-13	On-Site	<5	<5	<5	<10	16.5
MW-15	Off-site	**16,300**	**34,400**	**4,050**	**19,900**	**1,160**
MW-16	Off-site	**588**	**1,640**	**1,570**	6,720	**158**
MW-17	Off-site	**26,500**	**42,000**	**3,670**	**16,800**	**39,100**
MW-18	Off-site	<5	<5	<5	<10	**1,170**
MW-19	Off-site	**2,110**	78.2	**1,300**	2,160	**1,320**
MW-20	Off-site	**9.24**	<5	<5	<10	18.9
MW-21	Off-site	**526**	31.1	168	69.3	**157**
MW-22	Off-Site	**2,020**	48.6	467	1,420	**7,080**
MW-23	Off-Site	<5	<5	<5	<10	<5
MW-24	Off-Site	**66.1**	<5	<5	40.7	**7,390**
MW-25	Off-Site	**103**	5.17	<5	18.0	**1,250**
MW-26	Off-Site	<5	<5	<5	<10	<5
MW-27	Off-Site	<5	<5	<5	<10	**204**
MW-28	Off-Site	<5	<5	<5	<10	<5
MW-29	Off-Site	<5	<5	<5	<10	<5
MW-30	Off-Site	<5	<5	<5	<10	<5
MW-31	Off-Site	<5	<5	<5	<10	<5
MW-32	Off-Site	<5	<5	<5	<10	29.4
QA/QC Results						
Trip Blank	-	<5	<5	<5	<10	<5
"MW-35" Duplicate of MW-19	Off-Site	**2,160**	73.1	**1,390**	2,550	**1,640**
"MW-36" Duplicate of MW-22	Off-Site	**1,630**	41.5	366	1,410	**7,540**
IDEM RISC Default Closure Levels (2009)						
Residential	-	*5*	*1,000*	*700*	*10,000*	*40*
Industrial	-	*52*	*8,200*	*10,000*	*20,000*	*720*

Bold *Indicates concentration exceeds RISC RDCL* *Shading indicates concentration exceeds RISC IDCL*

4.0 BASEMENT MONITORING

Basement monitoring was conducted at 103 Mill Street and 103 ½ Mill Street pursuant to IDEM correspondence dated 7-Jul-10. Monitoring included monthly indoor basement air screening at both residences with a photoionization detector (PID), a visual inspection of sumps, and collection of sump water samples. Monitoring was conducted on 20-Jul-16, 10-Aug-16, and 28-Sep-16.

- Air monitoring consisted of screening indoor air for 10-minute duration with a PID. The PID was equipped with a 10.6 eV lamp and was calibrated to an isobutylene standard prior to fieldwork. PID screening results are summarized in the following Table 3.

- Sump water samples were discharged directly into two, laboratory-supplied, 40-mL vials containing hydrochloric acid preservative. The sample vials were filled completely, leaving no visible headspace. The samples were analyzed for BTEX/MTBE in accordance with SW846 Method 8260. Testing results are summarized in Table 3. Laboratory reports are included in Appendix B.

Table 3. Residential Basement Sampling
The Service Station, North Manchester, Wabash County

Sample Date	Sample Identification	PID Response (ppmv)	Benzene (µg/l)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
20-Jul-16	103 Mill Street	-	Inaccessible				
	103 ½ Mill Street	0.0	Dry				
10-Aug-16	103 Mill Street	0.2	<5	<5	<5	<10	<5
	103 ½ Mill Street	0	Dry				
*28-Sep-16	103 Mill Street	-	<5	<5	<5	<10	<5
	103 ½ Mill Street	-	Dry				
IDEM RISC Default Closure Levels (2009)							
Residential			*5*	*1,000*	*700*	*10,000*	*40*

Bold indicates above residential screening levels
*PID was unavailable during 28-Sep-16 sampling

5.0 PRODUCT ABATEMENT

Measurable LNAPL was observed at MW-15, MW-17, EX-3, and EX-4 this quarter. A disposable polyethylene bailer and a peristaltic pump were used to remove fluids in the well on 20-Jul-16, 10-Aug-16, and 28-Sep-16. Data is provided in Appendix A. Approximately 8.54 gallons was recovered from MW-15, MW-17, EX-3, and EX-4 this quarter. Manual abatement has recovered an estimated 126 gallons since 2010. Product is containerized in a 55-gallon DOT approved drum pending off-site disposal.

6.0 OPINION AND RECOMMENDATIONS

Third quarter 2016 results indicate petroleum impacted groundwater is present beneath the station building and extends approximately 280 feet to the southeast. The inferred extent of benzene in groundwater is depicted on Figure 4 and the inferred extent of MTBE is depicted on Figure 5.

- The extent of benzene in groundwater is inferred based on the absence of benzene at monitor well MW-13 to the north; wells MW-8, MW-18, and MW-23 to the east; MW-27, MW-28, and MW-32 to the south, and MW-5, MW-9a, and MW-11 to the west (Figure 4).

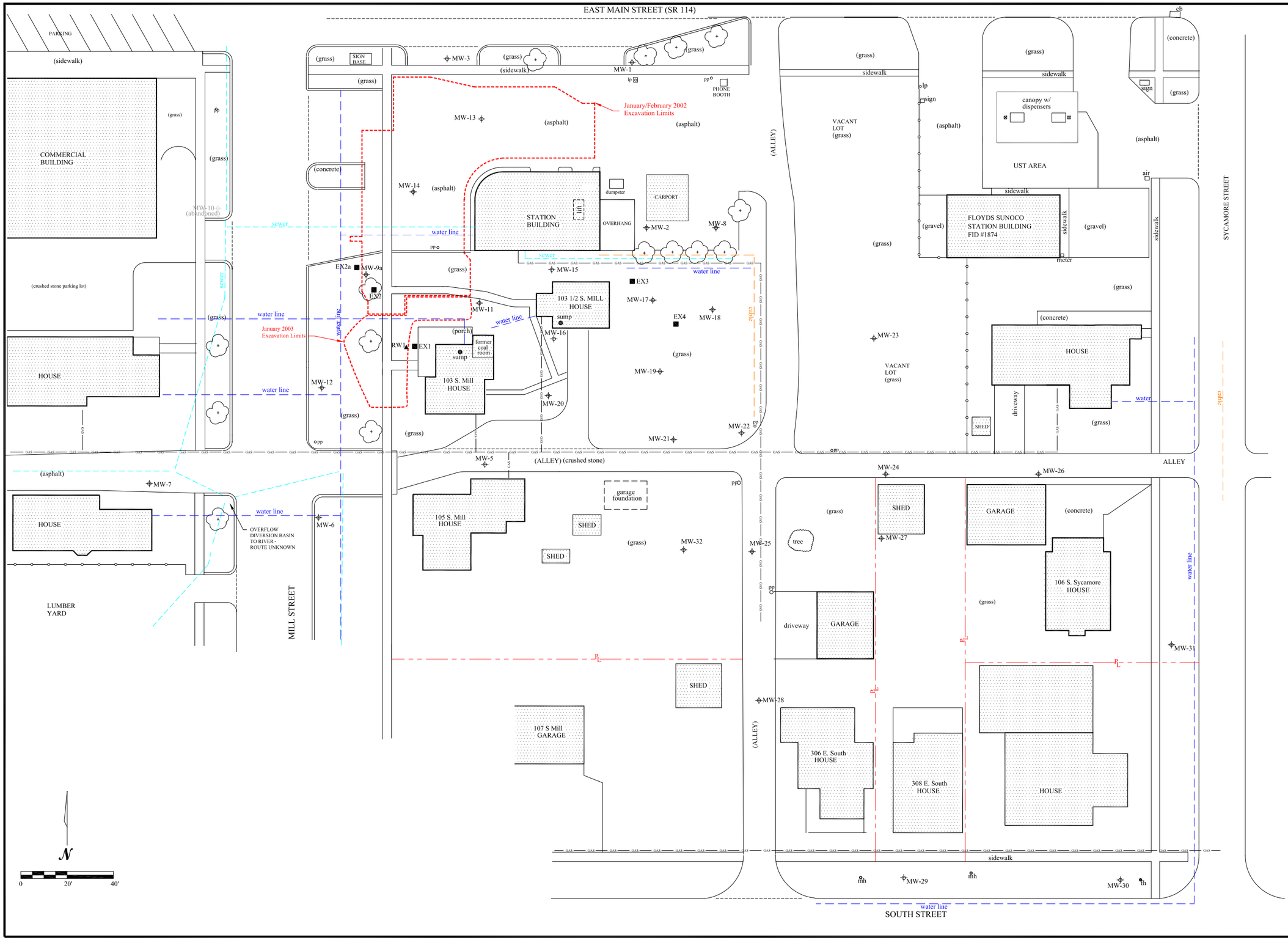
- MTBE extent is shown undefined to the west of MW-9a. Impact extends from the station building to the southeast and includes MW-15, MW-17, MW-19, MW-23, MW-24, MW-25, MW-27, and MW-32. MTBE is defined to the east by non-detect results at MW-2, MW-3, MW8, MW-23, and MW-26 and to the south by MW-28, MW-29, MW-30, and MW-31.

A corrective action plan addendum (CAPA) was submitted to IDEM in February 2015. The plan specified targeted soil removal and dual-phase extraction (DPE) to address free-phase gasoline, prevent further lateral migration, and reduce petroleum concentrations in soil and groundwater. SES again requests the agency review and comment on the CAPA.

GROUNDWATER MONITORING REPORT
3rd Quarter, 2016

FIGURES

The Service Station
301 East Main Street
North Manchester, Indiana
IDEM Incident # 9701519
Facility ID # 16165



Scale 1" = 40'	Checked gh	Figure 1	
Project 9099	Date 2/10/15	Drawn wg	File acad/9099

Legend

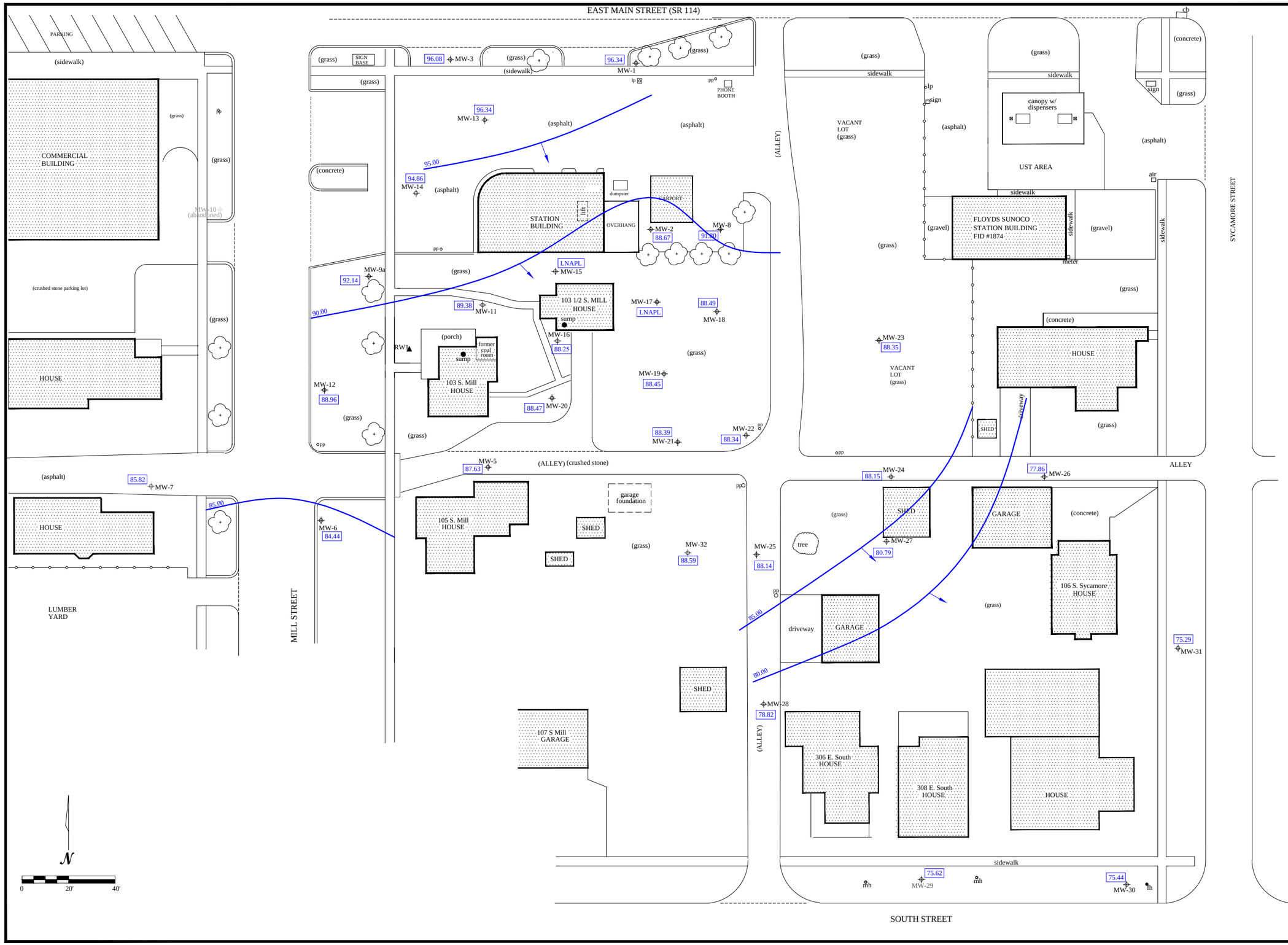
- MONITOR WELL LOCATION
- EXTRACTION WELL
- FIRE HYDRANT
- MANHOLE COVER
- LIGHT POLE
- POWER POLE

Title

SITE MAP

Location

C&H Marathon Facility (FID #16165)
301 East Main Street
North Manchester, Indiana



Scale	1" = 40'	Checked	so
Figure	2		
Project	9099	Date	11/8/16
Drawn	bb	File	acad/9099

Legend

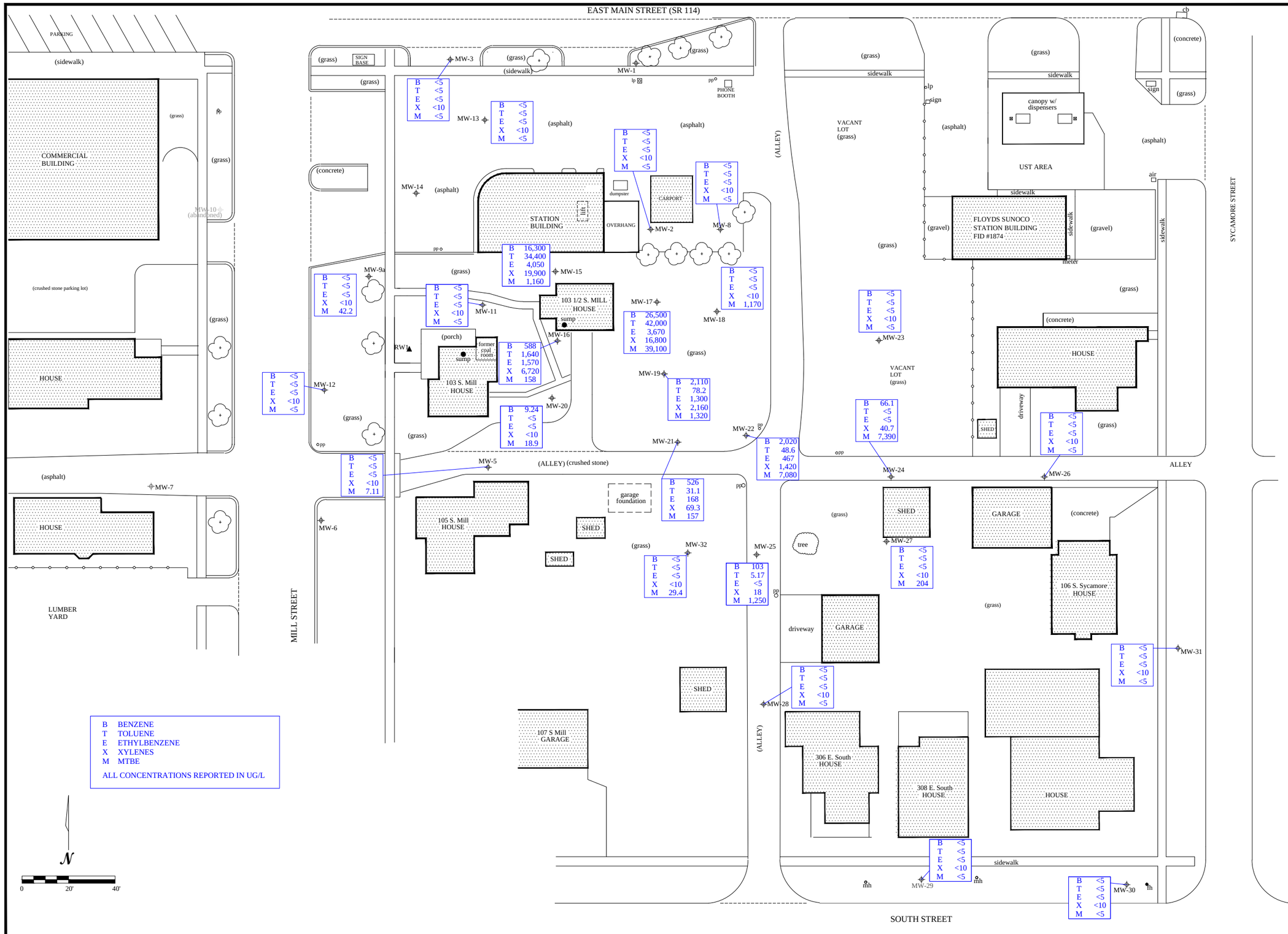
- MONITOR WELL LOCATION
- FIRE HYDRANT
- MANHOLE COVER
- LIGHT POLE
- POWER POLE

Title

GROUNDWATER FLOW
(10-Aug-16)

Location

C&H Marathon Facility (FID #16165)
301 East Main Street
North Manchester, Indiana



Scale	1" = 40'	Checked	so
Figure	3		
Project	9099	Date	11/8/16
Drawn	bb	File	acad/9099

Legend

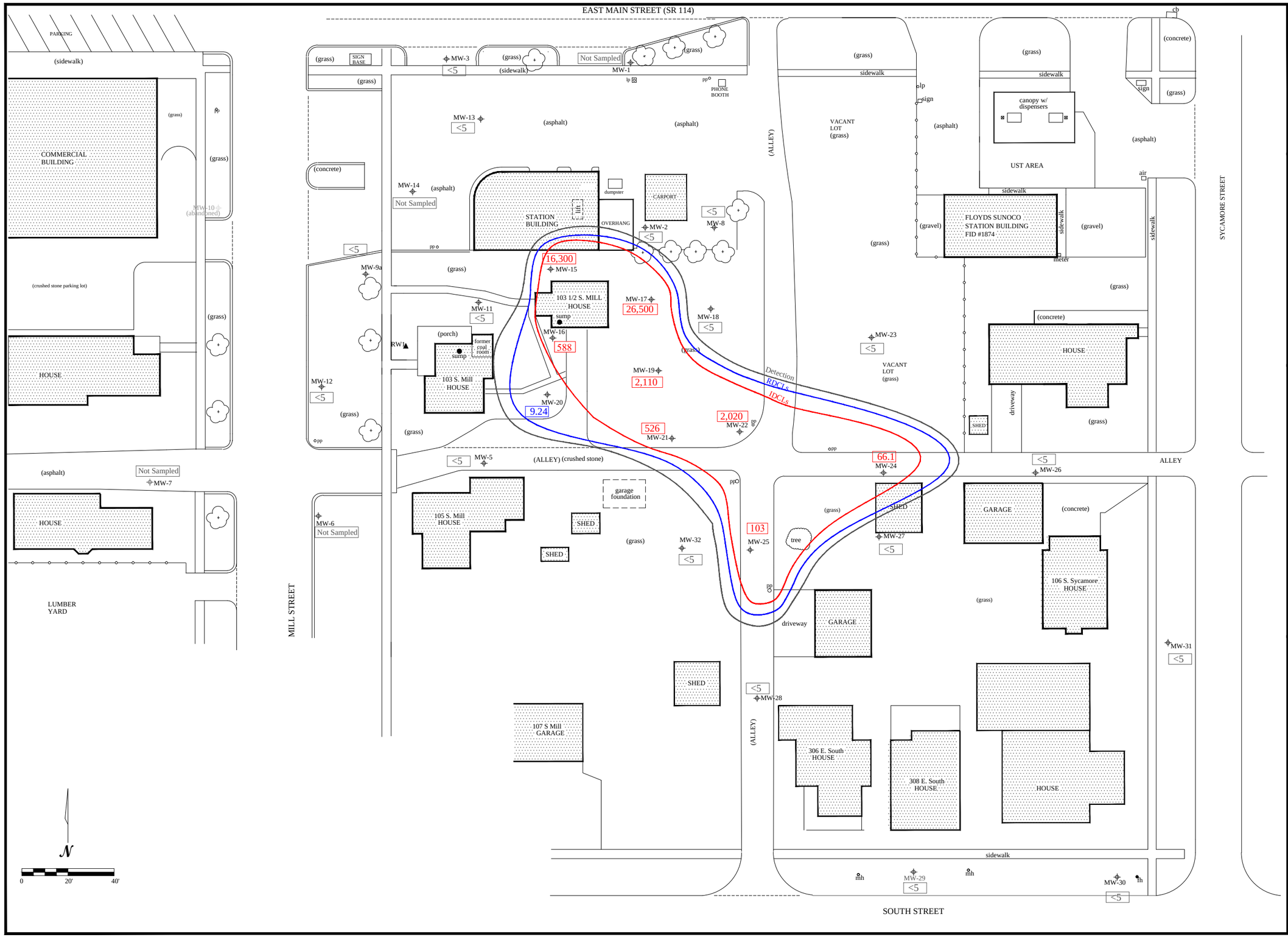
- MONITOR WELL LOCATION
- FIRE HYDRANT
- MANHOLE COVER
- LIGHT POLE
- POWER POLE

Title

GROUNDWATER BTEX/MTBE RESULTS
(10-Aug-16)

Location

C&H Marathon Facility (FID #16165)
301 East Main Street
North Manchester, Indiana



Scale	1" = 40'	Checked	so
Figure	4		
Project	9099	Date	11/8/16
Drawn	bb	File	acad/9099

Legend

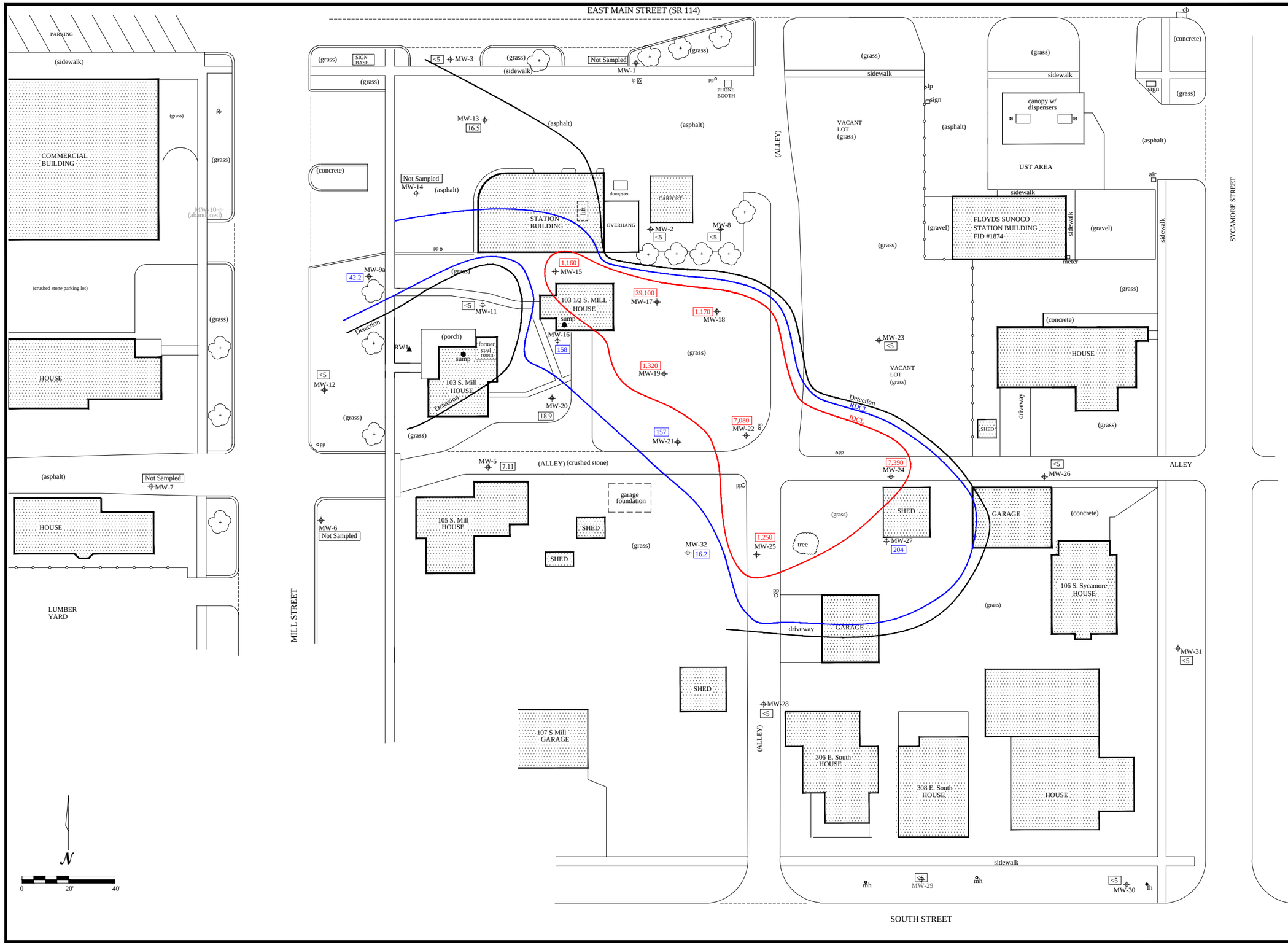
- MONITOR WELL LOCATION
- RESULTS REPORTED IN µg/L
- RDCL = 5 µg/L
- IDCL = 52 µg/L
- FIRE HYDRANT
- MANHOLE COVER
- LIGHT POLE
- POWER POLE

Title

GROUNDWATER BENZENE
(10-Aug-16)

Location

C&H Marathon Facility (FID #16165)
301 East Main Street
North Manchester, Indiana



SES

Scale 1" = 40'		Checked so	
Figure 5			
Project 9099		Date 11/8/16	
Drawn bb		File acad/9099	

Legend

- MONITOR WELL LOCATION
- Results Reported in µg/L
- RDCL = 40 µg/L
- IDCL = 720 µg/L
- FIRE HYDRANT
- MANHOLE COVER
- LIGHT POLE
- POWER POLE

Title

GROUNDWATER MTBE
(10-Aug-16)

Location

C&H Marathon Facility (FID #16165)
301 East Main Street
North Manchester, Indiana

GROUNDWATER MONITORING REPORT
3rd Quarter, 2016

APPENDIX A. COMPILATION DATA

The Service Station
301 East Main Street
North Manchester, Indiana
IDEM Incident # 9701519
Facility ID # 16165

Compilation of Groundwater Elevation Data (ft) (2009-2013)
Former C & H Marathon
North Manchester, Wabash County

Depth to Water Measurements (ft)

Well Identification		MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	MW-8	MW-9(a)	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	*Average*
Top of Casing Elevation		100.00	100.10	100.89	95.49	93.49	94.60	99.09	98.09	97.93	98.49	96.19	100.82	99.94	98.57	
Gauging Date	25-Mar-09	1.55	7.94	2.89	5.27	9.05	8.14	3.75	2.19	0.33	5.33	1.25	2.76	1.89	Installed 13-Jan-10	*4.03*
	22-Jun-09	2.75	9.13	3.39	6.10	9.51	8.42	5.59	2.98	3.30	6.58	2.79	3.39	2.16		*5.08*
	8-Sep-09	3.16	9.67	3.72	6.36	9.43	8.30	5.87	3.70	3.81	6.92	3.35	3.94	3.38		*5.51*
	14-Dec-09	2.33	5.76	3.17	5.46	9.12	8.29	4.14	2.75	2.27	6.02	1.63	3.89	3.28		*4.47*
	11-Feb-10	2.69	7.65	3.52	6.11	9.30	8.64	5.15	3.74	2.74	6.52	2.43	4.00	4.23	5.72' LNAPL	*5.13*
	19-May-10	2.24	4.49	2.94	5.27	8.99	8.13	3.91	2.55	2.54	5.45	1.90	3.19	1.93	4.39' LNAPL	*4.12*
	19-Aug-10	3.79	10.68	4.27	7.07	9.67	8.65	6.76	4.91	3.98	8.18	5.59	4.29	4.10	1.9' LNAPL	*6.30*
	11-Nov-10	5.67	12.77	6.39	8.52	10.23	10.02	9.87	8.57	5.17	10.70	8.09	6.63	7.72	0.80' LNAPL	*8.49*
	8-Mar-11	1.83	4.99	2.80	4.98	8.76	8.33	3.46	1.56	2.30	4.78	1.89	3.73	1.93	0.27 'LNAPL	*3.95*
	17-Jun-11	2.51	9.04	3.23	5.66	9.30	8.35	5.35	2.04	2.95	5.83	2.26	3.06	2.03	0.32' LNAPL	*4.74*
	23-Aug-11	4.05	11.49	4.42	7.41	9.96	9.22	7.85	3.85	3.78	9.22	5.07	4.80	5.08	0.11' LNAPL	*6.63*
	17-Nov-11	2.67	9.22	3.50	6.06	9.45	8.75	5.77	2.32	3.09	7.46	2.53	4.56	4.91	8.30*	*5.41*
	22-Mar-12	2.63	7.36	3.47	6.07	9.48	8.66	5.02	2.74	3.43	6.22	3.27	3.32	2.86	0.28' LNAPL	*4.96*
	20-Jun-12	4.10	11.73	4.72	7.77	10.05	9.27	7.92	6.87	4.52	9.34	6.97	4.60	5.21	LNAPL	*7.16*
	29-Aug-12	4.12	13.19	4.64	8.33	9.67	9.40	9.62	3.67	3.35	10.92	5.30	5.63	6.64	0.55' LNAPL	*7.27*
	14-Nov-12	2.88	11.33	3.76	7.02	9.61	9.25	7.81	2.68	2.89	9.24	3.28	5.30	6.78	9.88	*6.55*
	7-Feb-13	2.39	8.91	3.35	5.82	9.11	8.48	5.10	2.46	3.02	6.13	2.49	3.66	4.70	7.49	*5.22*
	14-May-13	2.54	8.88	3.39	5.90	8.15	8.91	4.84	2.90	6.95	6.30	4.49	3.27	2.12	0.04' LNAPL	*5.28*
	21-Aug-13	3.35	6.64	4.56	7.10	8.82	8.48	10.84	5.31	6.98	8.66	6.88	4.56	5.18	0.13' LNAPL	*6.72*
	11-Nov-13	3.21	11.80	4.82	7.54	8.88	8.80	7.90	4.20	Destroyed	10.12	6.66	5.51	7.18	0.04' LNAPL	*7.22*

Monitor wells MW-4 and MW-9 were lost during initial soil excavation

* Indicates monitor well was gauged on 18-Nov-11

Relative Groundwater Elevations (ft)

Well Identification		MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	MW-8	MW-9(a)	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	*Average*
Top of Casing Elevation		100.00	100.10	100.89	95.49	93.49	94.60	99.09	98.09	97.93	98.49	96.19	100.82	99.94	98.57	
Gauging Date	25-Mar-09	98.45	92.16	98.00	90.22	84.44	86.46	95.34	95.90	97.60	93.16	94.94	98.06	98.05	Installed 13-Jan-10	*94.06*
	22-Jun-09	97.25	90.97	97.50	89.39	83.98	86.18	93.50	95.11	94.63	91.91	93.40	97.43	97.78		*93.00*
	8-Sep-09	96.84	90.43	97.17	89.13	84.06	86.30	93.22	94.39	94.12	91.57	92.84	96.88	96.56		*92.58*
	14-Dec-09	97.67	94.34	97.72	90.03	84.37	86.31	94.95	95.34	95.66	92.47	93.76	96.82	95.71		*93.47*
	11-Feb-10	97.31	92.45	97.37	89.38	84.19	85.96	93.94	94.35	95.19	91.97	93.76	96.82	95.71	5.72' LNAPL	*92.95*
	19-May-10	97.76	95.61	97.95	90.22	84.50	86.47	95.18	95.54	95.39	93.04	94.29	97.63	98.01	4.39' LNAPL	*93.97*
	19-Aug-10	96.21	89.42	96.62	88.42	83.82	85.95	92.33	93.18	93.95	90.31	90.60	96.53	95.84	1.9' LNAPL	*91.78*
	11-Nov-10	94.33	87.33	94.50	86.97	83.26	84.58	89.22	89.52	92.76	87.79	88.10	94.19	92.22	0.80' LNAPL	*89.60*
	8-Mar-11	98.17	95.11	98.09	90.51	84.73	86.27	95.63	96.53	95.63	93.71	94.60	97.09	98.01	0.27 'LNAPL	*94.16*
	17-Jun-11	97.49	91.06	97.66	89.83	84.19	86.25	93.74	96.05	94.98	92.66	93.93	97.76	97.91	0.32' LNAPL	*93.35*
	23-Aug-11	95.95	88.61	96.47	88.08	83.53	83.38	91.24	94.24	94.15	89.27	91.12	96.02	94.86	0.11' LNAPL	*91.30*
	17-Nov-11	97.33	90.88	97.39	89.43	84.04	85.85	93.32	95.77	94.84	91.03	93.66	96.26	95.03	90.27*	*92.68*
	22-Mar-12	97.37	92.74	97.42	89.42	84.01	85.94	94.07	95.35	94.50	92.27	92.92	97.50	97.08	0.28' LNAPL	*93.12*
	20-Jun-12	95.90	88.37	96.17	87.72	83.44	85.33	91.17	91.22	93.41	89.15	89.22	96.22	94.73	LNAPL	*90.93*
	29-Aug-12	95.88	86.91	96.25	87.16	83.82	85.20	89.47	94.42	94.58	87.57	90.89	95.19	93.30	0.55' LNAPL	*90.82*
	14-Nov-12	97.12	88.77	97.13	88.47	83.88	85.35	91.28	95.41	95.04	89.25	92.91	85.52	93.16	88.69	*90.86*
	7-Feb-13	97.61	91.19	97.54	89.67	84.38	86.12	93.99	95.63	94.91	92.36	93.70	97.16	95.24	91.08	*92.90*
	14-May-13	97.46	91.22	97.50	89.59	85.34	85.69	94.25	95.19	90.98	92.19	91.70	97.55	97.82	0.04' LNAPL	*92.81*
	21-Aug-13	96.65	93.46	96.33	88.39	84.67	86.12	88.25	92.78	90.95	89.83	89.31	96.26	94.76	0.13' LNAPL	*91.37*
	11-Nov-13	96.79	88.30	96.07	87.95	84.61	85.80	91.19	93.89	Destroyed	88.37	89.53	95.31	92.76	0.04' LNAPL	*90.88*

Monitor wells MW-4 and MW-9 were lost during initial soil excavation

* Indicates monitor well was gauged on 18-Nov-11

Compilation of Groundwater Elevation Data (ft) (2009 - 2013)
Former C & H Marathon
North Manchester, Wabash County

Depth to Water Measurements (ft)

Well Identification	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	RW-1	EX-1	EX-2	EX-3	EX-4	*Average*
Top of Casing Elevation	98.15	97.80	97.34	96.50	96.50	96.10	96.20	95.70	95.16	93.42	94.55	92.09	90.93				97.20	97.79	97.62	97.48	97.14	
Gauging Date 25-Mar-09																	4.08					*4.08*
22-Jun-09																	5.31	6.02	5.53			*5.62*
8-Sep-09	Installed	Installed															5.61	6.42	5.77			*5.93*
14-Dec-09	18-Aug-10	18-Aug-10															4.91	5.45	5.23			*5.20*
11-Feb-10																	5.30	5.92	5.41			*5.54*
19-May-10																	4.39	5.06	4.42			*4.62*
19-Aug-10	8.95	0.61' LNAPL	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	6.93	7.63	7.03	Installed on	Installed on	*7.64*
11-Nov-10	10.90	0.22' LNAPL	2-Mar-11	2-Mar-11	2-Mar-11	20-Oct-11	20-Oct-11	21-Mar-12	21-Mar-12	21-Mar-12	12-Aug-13	12-Aug-13	12-Aug-13	22-Apr-14	22-Apr-14	22-Apr-14	9.46	0.12' LNAPL	9.65	27-Aug-12	27-Aug-12	*33404.81*
8-Mar-11	6.25	5.92	5.47	4.07	4.60												3.80	4.33	2.56			*4.63*
17-Jun-11	7.45	7.31	6.75	5.95	5.85												4.58	5.04	4.14			*5.88*
23-Aug-11	9.61	0.74' LNAPL	8.82	7.99	7.96												7.92	8.64	7.89			*8.40*
17-Nov-11	7.99	7.64*	7.15	6.35	6.29	5.97	6.13										6.15	6.63	5.95			*6.51*
22-Mar-12	7.40	1.01' LNAPL	6.63	5.84	5.76	5.55	5.72	5.51	5.19	3.35							5.02	5.64	4.71			*5.53*
20-Jun-12	9.93	LNAPL	9.10	8.28	8.25	7.93	8.07	7.67	7.22	5.54							8.06	8.79	8.18			*8.09*
29-Aug-12	0.97' LNAPL	0.12' LNAPL	10.43	9.63	9.56	9.22	9.35	8.84	8.47	6.70							-	-	-	-	-	*9.03*
14-Nov-12	1.03' LNAPL	9.24	8.68	7.89	8.83	7.59	7.68	dry	6.78	5.07							-	-	-	-	-	*7.72*
7-Feb-13	0.10' LNAPL	6.82	6.36	5.57	5.50	11.68	5.42	8.04	4.75	3.24							-	-	-	0.42' LNAPL	6.31	*6.37*
14-May-13	0.03' LNAPL	0.44' LNAPL	6.62	5.81	5.75	5.50	5.69	5.42	5.06	3.38							-	-	-	0.06' LNAPL	0.01' LNAPL	*5.40*
21-Aug-13	0.22' LNAPL	0.61' LNAPL	8.25	7.43	7.39	7.07	7.22	6.81	16.4	4.68	16.59	10.48	11.62				-	-	-	0.29' LNAPL	0.01' LNAPL	*9.45*
11-Nov-13	0.07' LNAPL	9.62	9.07	8.25	8.23	7.88	8.04	7.52	7.08	5.38	16.18	10.92	11.95				-	-	-	0.36' LNAPL	9.08	*9.17*

EX-3 and EX-4 were surveyed on 21-Aug-13

Relative Groundwater Elevations (ft)

Well Identification	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	RW-1	EX-1	EX-2	EX-3	EX-4	*Average*
Top of Casing Elevation	98.15	97.80	97.34	96.50	96.50	96.10	96.20	95.70	95.16	93.42	94.55	92.09	90.93				97.20	97.79	97.62	97.48	97.14	
Gauging Date 25-Mar-09																	93.12	Installed on	Installed on			*93.12*
22-Jun-09																	91.89	91.77	92.09			*91.92*
8-Sep-09																	91.59	91.37	91.85			*91.60*
14-Dec-09																	92.29	92.34	92.39			*92.34*
11-Feb-10	Installed	Installed															91.90	91.87	92.21			*91.99*
19-May-10	18-Aug-10	18-Aug-10															92.81	92.73	93.20			*92.91*
19-Aug-10	89.20	0.61' LNAPL	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	Installed	90.27	90.16	90.59	Installed on	Installed on	*90.06*
11-Nov-10	87.25	0.22' LNAPL	2-Mar-11	2-Mar-11	2-Mar-11	20-Oct-11	20-Oct-11	21-Mar-12	21-Mar-12	21-Mar-12	12-Aug-13	12-Aug-13	12-Aug-13	22-Apr-14	22-Apr-14	22-Apr-14	87.74	0.12' LNAPL	87.97	27-Aug-12	27-Aug-12	*33419.37*
8-Mar-11	91.90	91.88	91.87	94.23	91.90												93.40	93.46	95.06			*92.96*
17-Jun-11	90.70	90.49	90.59	90.55	90.65												92.62	92.75	93.48			*91.48*
23-Aug-11	88.54	0.74' LNAPL	88.52	88.51	88.54												89.28	89.15	89.73			*88.90*
17-Nov-11	90.16	90.16*	90.19	90.15	90.21	90.13	90.07										91.05	91.16	91.67			*90.53*
22-Mar-12	90.75	1.01' LNAPL	90.71	90.66	90.74	90.55	90.48	90.19	89.97	90.07							92.18	92.15	92.91			*90.95*
20-Jun-12	88.22	LNAPL	88.24	88.22	88.25	88.17	88.13	88.03	87.94	87.88							89.14	89.00	89.44			*88.39*
29-Aug-12	0.97' LNAPL	0.12' LNAPL	86.91	86.87	86.94	86.88	86.85	86.86	86.69	86.72							-	-	-	-	-	*86.84*
14-Nov-12	1.03' LNAPL	88.56	88.66	88.61	87.67	88.51	88.52	dry	88.38	88.35							-	-	-	-	-	*88.41*
7-Feb-13	0.10' LNAPL	90.98	90.98	90.93	91.00	84.42	90.78	87.66	90.41	90.18							-	-	-	-	-	*89.70*
14-May-13	0.03' LNAPL	0.44' LNAPL	90.72	90.69	90.75	90.60	90.51	90.28	90.10	90.04							-	-	-	-	-	*90.46*
21-Aug-13	0.22' LNAPL	0.61' LNAPL	89.09	89.07	89.11	89.03	88.98	88.89	78.76	88.74	77.96	81.61	79.31				-	-	-	0.14' LNAPL	0.01' LNAPL	*85.50*
11-Nov-13	0.07' LNAPL	88.18	88.27	88.25	88.27	88.22	88.16	88.18	88.08	88.04	78.37	81.17	78.98				-	-	-	0.36' LNAPL	88.06	*86.17*

EX-3 and EX-4 were surveyed on 21-Aug-13

Compilation of Groundwater Elevation Data (ft) (2014 - Present)
Former C & H Marathon
North Manchester, Wabash County

Depth to Water Measurements ft

Well Identification		MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	MW-8	MW-9(a)	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	*Average*
Top of Casing Elevation		100.00	100.10	100.89	95.49	93.49	94.60	99.09	98.09	97.93	98.49	96.19	100.82	99.94	98.57	98.15	97.80	
Gauging Date	18-Mar-14	3.18	4.21	2.91	4.90	Inaccessible	8.20	5.31	1.00	Destroyed	4.44	1.98	Inaccessible	4.37	6.18	5.88	5.53	*4.47*
	6-May-14	2.61	8.70	3.52	6.22	8.41	8.40	4.81	2.72		6.73	4.13	3.15	2.36	0.09' LNAPL	7.72	1.15' LNAPL	*5.34*
	25-Aug-14	3.44	11.71	4.83	7.49	8.85	8.64	7.78	6.95		9.75	7.32	4.80	5.87	0.12' LNAPL	9.93	0.76' LNAPL	*7.49*
	13-Nov-14	3.24	10.86	4.63	7.11	8.98	8.57	6.53	3.22		8.91	6.26	4.75	5.83	0.10' LNAPL	9.09	0.21' LNAPL	*6.77*
	18-Feb-15	2.82	8.63	3.80	Inaccessible	Inaccessible	8.50	4.99	3.09		6.92	Inaccessible	4.20	4.94	0.08' LNAPL	7.62	7.23	*5.70*
	7-May-15	2.99	7.79	3.53	8.11	8.68	8.58	4.88	2.98		Dry	3.21	2.90	2.36	0.25' LNAPL	7.69	2.13' LNAPL	*5.31*
	26-Aug-15	3.41	10.82	1.56	7.33	8.95	8.52	6.73	5.52		8.21	6.60	4.07	4.74	0.17' LNAPL	9.15	0.92' LNAPL	*6.59*
	3-Nov-15	3.35	7.90	5.00	7.88	8.83	8.90	11.86	6.34		9.88	5.55	5.30	6.71	10.44	9.21	0.17' LNAPL	*7.65*
	15-Feb-16	3.11	9.13	4.41	6.63	8.93	8.73	5.03	3.10		7.25	4.68	4.20	4.75	0.08' LNAPL	8.00	7.53	*6.11*
	11-May-16	1.75	3.95	2.79	4.62	7.93	7.85	2.84	0.96		3.33	1.30	2.38	1.83	0.15' LNAPL	5.90	1.07' LNAPL	*3.65*
	10-Aug-16	3.66	11.43	4.81	7.86	9.05	8.78	7.29	5.95		9.11	7.23	4.48	5.08	0.2' LNAPL	9.90	0.72' LNAPL	*7.28*

Monitor wells MW-4 and MW-9 were lost during initial soil excavation
Monitor well MW-10 was lost during street construction 2013

Relative Groundwater Elevations ft

Well Identification		MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	MW-8	MW-9(a)	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	*Average*
Top of Casing Elevation		100.00	100.10	100.89	95.49	93.49	94.60	99.09	98.09	97.93	98.49	96.19	100.82	99.94	98.57	98.15	97.80	
Gauging Date	18-Mar-14	96.82	95.89	97.98	90.59	Inaccessible	86.40	93.78	97.09	Destroyed	94.05	94.21	Inaccessible	95.57	92.39	92.27	92.27	*93.79*
	6-May-14	97.39	91.40	97.37	89.27	85.08	86.20	94.28	95.37		91.76	92.06	97.67	97.58	0.09' LNAPL	90.43	1.15' LNAPL	*92.76*
	25-Aug-14	96.56	88.39	96.06	88.00	84.64	85.96	91.31	91.14		88.74	88.87	96.02	94.07	0.12' LNAPL	88.22	0.76' LNAPL	*90.61*
	13-Nov-14	96.76	89.24	96.26	88.38	84.51	86.03	92.56	94.87		89.58	89.93	96.07	94.11	0.10' LNAPL	89.06	0.21' LNAPL	*91.34*
	18-Feb-15	97.18	91.47	97.09	Inaccessible	Inaccessible	86.10	94.10	95.00		91.57	Inaccessible	96.62	95.00	0.08' LNAPL	90.53	90.57	*93.20*
	7-May-15	97.01	92.13	97.36	87.38	84.81	86.02	94.21	95.11		Dry	92.98	97.92	97.58	0.25' LNAPL	90.46	2.13' LNAPL	*92.75*
	26-Aug-15	96.59	89.28	99.33	88.16	84.54	86.08	92.36	92.57		90.28	89.59	96.75	95.20	0.17' LNAPL	89.00	0.92' LNAPL	*91.52*
	3-Nov-15	96.65	92.20	95.89	87.61	84.66	95.70	87.23	91.75		88.61	90.64	95.52	92.23	88.13	88.94	0.17' LNAPL	*91.13*
	15-Feb-16	96.89	90.97	96.48	88.86	84.56	85.87	94.06	94.99		91.24	91.51	96.62	95.19	0.08' LNAPL	90.15	90.27	*91.60*
	11-May-16	98.25	96.15	98.1	90.87	85.56	86.75	96.25	97.13		95.16	94.89	98.44	98.11	0.15' LNAPL	92.25	1.07' LNAPL	*94.45*
	10-Aug-16	96.34	88.67	96.08	87.63	84.44	85.82	91.80	92.14		89.38	88.96	96.34	94.96	0.2' LNAPL	88.25	0.72' LNAPl	*90.83*

Monitor wells MW-4 and MW-9 were lost during initial soil excavation
Monitor well MW-10 was lost during street construction 2013

Compilation of Groundwater Elevation Data (ft) (2014 - Present)
Former C & H Marathon
North Manchester, Wabash County

Depth to Water Measurements (ft)

Well Identification		MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32	EX-3	EX-4	*Average*
Top of Casing Elevation		97.34	96.50	96.50	96.10	96.20	95.70	95.16	93.42	94.55	92.09	90.93	89.25	89.55	92.22	93.90	97.48	97.14	
Gauging Date	18-Mar-14	5.09	4.28	5.5	3.92	4.11	4.08	3.51	4.80	Inaccessible	7.31	7.51	Installed 22-Apr-14	Installed 22-Apr-14	Installed 22-Apr-14	Installed 12-Nov-14	0.04' LNAPL	5.02	*5.01*
	6-May-14	6.09	6.89	6.05	5.76	5.93	5.64	5.28	3.61	16.25	9.78	10.6	12.42	12.92	15.76		0.06' LNAPL	6.83	*8.65*
	25-Aug-14	9.07	8.23	8.21	7.84	7.97	7.49	7.02	5.37	16.56	10.97	11.95	13.18	13.68	16.45	4.67	0.57' LNAPL	0.06' LNAPL	*9.91*
	13-Nov-14	8.23	7.42	7.39	7.05	7.18	6.74	6.28	4.60	16.32	10.46	11.52	13.22	13.76	16.55	4.67	0.66' LNAPL	0.01' LNAPL	*9.43*
	18-Feb-15	6.77	5.96	5.93	5.65	5.78	5.39	Inaccessible	3.38	Inaccessible	Inaccessible	Inaccessible	Inaccessible	13.21	15.99	3.35	0.07' LNAPL	6.70	*7.10*
	7-May-15	6.86	6.02	8.19	5.73	5.90	5.59	5.21	4.62	16.43	9.77	10.83	12.46	Dry	15.79	3.48	7.08	6.79	*8.17*
	26-Aug-15	8.24	7.42	7.40	7.06	7.21	6.18	6.39	4.68	16.70	10.83	11.83	13.29	13.81	16.58	Equipment malfunction	8.74	8.14	*9.66*
	3-Nov-15	9.21	8.40	8.36	8.00	8.13	7.63	7.16	5.48	16.70	11.08	12.08	13.51	14.01	16.79	5.60	0.44' LNAPL	0.08' LNAPL	*10.14*
	15-Feb-16	7.11	6.31	6.25	5.95	6.11	5.75	5.38	4.18	16.68	9.77	11.06	12.92	13.46	16.25	3.67	7.32	7.01	*8.54*
	11-May-16	4.88	4.09	4.05	3.65	3.85	3.85	3.35	1.60	16.16	8.41	8.29	10.6	11.24	14.2	1.50	5.20	4.90	*6.46*
	10-Aug-16	8.85	8.05	8.03	7.71	7.86	7.35	7.01	5.28	16.69	11.3	12.11	13.63	14.11	16.93	5.31	0.54' LNAPL	0.03' LNAPL	*10.01*

EX-3 and EX-4 were surveyed on 21-Aug-13

Relative Groundwater Elevations (ft)

Well Identification		MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32	EX-3	EX-4	*Average*
Top of Casing Elevation		97.34	96.50	96.50	96.10	96.20	95.70	95.16	93.42	94.55	92.09	90.93	89.25	89.55	92.22	93.90	97.48	97.14	
Gauging Date	18-Mar-14	92.25	92.22	91.00	92.18	92.09	91.62	91.65	88.62	Inaccessible	84.78	83.42	Installed 22-Apr-14	Installed 22-Apr-14	Installed 22-Apr-14	Installed 12-Nov-14	0.04' LNAPL	92.12	*90.18*
	6-May-14	91.25	89.61	90.45	90.34	90.27	90.06	89.88	89.81	78.3	82.31	80.33	76.83	76.63	76.46		0.06' LNAPL	90.31	*85.52*
	25-Aug-14	88.27	88.27	88.29	88.26	88.23	88.21	88.14	88.05	77.99	81.12	78.98	76.07	75.87	75.77	89.23	0.57' LNAPL	0.06' LNAPL	*84.05*
	13-Nov-14	89.11	89.08	89.11	89.05	89.02	88.96	88.88	88.82	78.23	81.63	79.41	76.03	75.79	75.67	89.23	0.66' LNAPL	0.01' LNAPL	*84.53*
	18-Feb-15	90.57	90.54	90.57	90.45	90.42	90.31	Inaccessible	90.04	Inaccessible	Inaccessible	Inaccesible	Inaccessible	76.34	76.23	90.55	0.07' LNAPL	90.44	*87.86*
	7-May-15	90.48	90.48	88.31	90.37	90.30	90.11	89.95	88.80	78.12	82.32	80.10	76.79	Dry	76.43	90.42	90.40	90.35	*86.48*
	26-Aug-15	89.10	89.08	89.10	89.04	88.99	89.52	88.77	88.74	77.85	81.26	79.10	75.96	75.74	75.64	Equipment Malfunction	89.01	89.00	*84.74*
	3-Nov-15	88.13	88.10	88.14	88.10	88.07	88.07	88.00	87.94	77.85	81.01	78.85	75.74	75.54	75.43	88.30	0.44' LNAPL	0.08' LNAPL	*83.82*
	15-Feb-16	90.23	90.19	90.25	90.15	90.09	89.95	89.78	89.24	77.87	82.32	79.87	76.33	76.09	75.97	90.23	90.16	90.13	*85.81*
	11-May-16	92.46	92.41	92.45	92.45	92.35	91.85	91.81	91.82	78.39	83.68	82.64	78.65	78.31	78.02	92.40	92.28	92.24	*87.89*
	10-Aug-16	88.49	88.45	88.47	88.39	88.34	88.35	88.15	88.14	77.86	80.79	78.82	75.62	75.44	75.29	88.59	0.54' LNAPL	0.03' LNAPL	*83.95*

EX-3 and EX-4 were surveyed on 21-Aug-13

Groundwater BTEX/MTBE Concentrations (March 2009 through November 2011)

Former C & H Marathon
North Manchester, Wabash County

Well Identification	Laboratory Parameter	Sample Date											
		25-Mar-09	22-Jun-09	8-Sep-09	14-Dec-09	11-Feb-10	19-May-10	19-Aug-10	11-Nov-10	8-Mar-11	17-Jun-11	23-Aug-11	17-Nov-11
MW-1	Benzene	Not sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-2	Benzene	<0.005	0.471	0.047	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.181	<0.005	<0.005
	Toluene	<0.005	0.0251	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00815	<0.005	<0.005
	Ethylbenzene	<0.005	0.0112	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	0.0114	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.00514	<0.01	<0.01
	MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00822	<0.005	<0.005	<0.005	<0.005
MW-4	Benzene	destroyed during February 2002 evacuation											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-5	Benzene	Not sampled											<0.005
	Toluene												<0.005
	Ethylbenzene												<0.005
	Xylenes												<0.01
	MTBE												0.00822
MW-6	Benzene	Not sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-7	Benzene	Not sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-8	Benzene	Not sampled											<0.005
	Toluene												<0.005
	Ethylbenzene												<0.005
	Xylenes												<0.01
	MTBE												<0.005
MW-9(a)	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	0.0833	0.459	0.0917	0.0417	0.0137	0.0419	0.0811	0.412	<0.005	0.0271	0.021	0.0382
MW-10	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Concentrations reported in mg/L

Groundwater BTEX/MTBE Concentrations (March 2009 through November 2011)

Former C & H Marathon
North Manchester, Wabash County

Well Identification	Laboratory Parameter	Sample Date											
		25-Mar-09	22-Jun-09	8-Sep-09	14-Dec-09	11-Feb-10	19-May-10	19-Aug-10	11-Nov-10	8-Mar-11	17-Jun-11	23-Aug-11	17-Nov-11
MW-11	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00507	<0.005	<0.005	0.0093	0.0132
MW-12	Benzene	Not sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-13	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	0.0996	0.267	0.325	0.145	0.372	0.35	0.0967	0.465	0.129	0.214	0.0149	0.666
MW-14	Benzene	Not sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-15	Benzene	Installed 13-Jan-10				5.72' LNAPL	4.39' LNAPL	1.9' LNAPL	0.80' LNAPL	0.27' LNAPL	0.32' LNAPL	4.49	1.02
	Toluene											10.9	2.82
	Ethylbenzene											2.46	0.825
	Xylenes											11.44	5.47
	MTBE											1.6	0.226
MW-16	Benzene	Installed 18-Aug-10						2	0.957	1.11	3.08	4.95	1.7
	Toluene							8.42	3.25	4.75	5.72	10.7	5.21
	Ethylbenzene							1.78	0.851	1.93	1.99	1.95	1.66
	Xylenes							7.54	3.45	7.51	7.01	7.83	6.46
	MTBE							0.0124	2.12	0.516	0.0357	0.0525	0.119
MW-17	Benzene	Installed 18-Aug-10						0.61' LNAPL	0.22' LNAPL	7.9	17.2	13.5	15.6
	Toluene									11.5	22.8	19.5	16.3
	Ethylbenzene									1.31	2.48	3.1	1.95
	Xylenes									7.46	11.46	12.46	12.6
	MTBE									20.9	28.6	19.1	21.6
MW-18	Benzene	Installed 2-Mar-11								<0.005	<0.005	0.0817	0.53
	Toluene									<0.005	<0.005	<0.005	<0.005
	Ethylbenzene									<0.005	<0.005	<0.005	<0.005
	Xylenes									<0.01	<0.01	<0.01	<0.01
	MTBE									0.0296	0.472	4.21	11.9
MW-19	Benzene	Installed 2-Mar-11								0.753	5.07	2.62	3.67
	Toluene									0.0286	0.299	0.162	0.113
	Ethylbenzene									0.126	1.11	0.712	1.11
	Xylenes									0.321	1.54	1.25	2.11
	MTBE									0.0703	0.452	0.216	0.314
MW-20	Benzene	Installed 2-Mar-11								0.0287	0.0112	<0.005	<0.005
	Toluene									<0.005	<0.005	<0.005	<0.005
	Ethylbenzene									0.00935	<0.005	<0.005	<0.005
	Xylenes									<0.01	<0.01	<0.01	<0.01
	MTBE									0.0223	0.0371	0.0312	0.0252

Concentrations reported in mg/L

Groundwater BTEX/MTBE Concentrations (March 2009 through November 2011)

Former C & H Marathon
North Manchester, Wabash County

Well Identification	Laboratory Parameter	Sample Date											
		25-Mar-09	22-Jun-09	8-Sep-09	14-Dec-09	11-Feb-10	19-May-10	19-Aug-10	11-Nov-10	8-Mar-11	17-Jun-11	23-Aug-11	17-Nov-11
MW-21	Benzene	Installed 20-Oct-11											0.262
	Toluene												0.0526
	Ethylbenzene												0.525
	Xylenes												0.565
	MTBE												0.82
MW-22	Benzene	Installed 20-Oct-11											Insufficient volume for sampling
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-23	Benzene	Installed 21-Mar-12											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-24	Benzene	Installed 21-Mar-12											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-25	Benzene	Installed 21-Mar-12											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
RW-1	Benzene	<0.005	<0.005	<0.005	0.0223	<0.005	<0.005	<0.005	0.0303	<0.005	<0.005	<0.005	0.00582
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	0.00632	<0.005	0.0495	0.0495	0.0115	0.00597	0.112	<0.005	<0.005	0.0112	0.0361
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0186	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	<0.005	0.0659	0.00845	<0.005	<0.005	0.0247	0.00673	<0.005	<0.005	0.0227
EX-1	Benzene	installed 15-Jun-09	2.04	0.423	0.0649	0.364	0.0935	0.204	0.12' LNAPL	<0.005	0.00833	0.083	<0.005
	Toluene		9.31	1.41	0.0915	0.421	0.101	0.181		<0.005	<0.005	0.00503	<0.005
	Ethylbenzene		1.62	0.69	0.0338	0.199	0.129	0.214		<0.005	<0.005	0.00884	<0.005
	Xylenes		10.05	4.01	0.18	0.805	0.412	0.683		0.183	0.0805	0.0494	<0.01
	MTBE		0.251	0.0509	0.0313	0.0249	0.00828	0.0145		0.024	<0.005	0.0636	0.00848
EX-2	Benzene	installed 15-Jun-09	0.89	0.96	0.171	0.462	0.0644	0.0408	1.1	<0.005	0.061	0.0457	0.0602
	Toluene		2.53	2.37	0.281	0.295	<0.005	0.0059	2.71	<0.005	<0.005	0.011	<0.05
	Ethylbenzene		0.398	1.7	0.0760	0.168	0.0401	0.0601	0.969	<0.005	0.0106	0.0745	<0.05
	Xylenes		6.86	10.59	0.442	1.241	0.0318	0.0737	7.13	<0.01	0.00622	0.0201	<0.1
	MTBE		2.16	0.98	0.571	0.752	0.555	0.162	0.664	0.0265	0.408	0.326	0.519

Concentrations reported in mg/L

Groundwater BTEX/MTBE Concentrations (March 2012-November 2014)

Former C & H Marathon
North Manchester, Wabash County

Well Identification	Laboratory Parameter	Sample Date 22-Mar-12	20-Jun-12	28-Aug-12	14-Nov-12	7-Feb-13	14-May-13	21-Aug-13	11-Nov-13	19-Mar-14	6-May-14	25-Aug-14	17-Nov-14
MW-1	Benzene	Not sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-2	Benzene	0.0801	<0.005	<0.005	<0.005	0.017	0.269	<0.005	<0.005	0.00788	0.131	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	0.052	<0.005	<0.005	<0.005	0.0304	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	0.0209	<0.005	<0.005	<0.005	0.00579	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	0.0343	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-3	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	0.00715	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4	Benzene	Destroyed during February 2002 evacuation											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-5	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	0.00802	0.00603	0.00525	<0.005	0.00626	0.00596	0.00666	0.00698	<0.005	0.00695
MW-6	Benzene	Not Sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-7	Benzene	Not Sampled											
	Toluene												
	Ethylbenzene												
	Xylenes												
	MTBE												
MW-8	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	0.0115	<0.005	<0.005	<0.05	0.00509	<0.005	<0.005	<0.005	<0.005	<0.005
MW-9(a)	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	0.0185	0.134	<0.005	0.0105	0.0162	0.0174	0.0337	0.0141	0.00651	0.00816	0.0944	0.0104
MW-10	Benzene	<0.005	<0.005	Not Sampled	<0.005	<0.005	<0.005	<0.005	Destroyed in sewer construction 2013				
	Toluene	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005					
	Ethylbenzene	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005					
	Xylenes	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01					
	MTBE	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005					
MW-11	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	<0.005	<0.005	0.00809	0.00518	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-12	Benzene	Not Sampled		<0.005	Not Sampled						<0.005	<0.005	<0.005
	Toluene			<0.005							<0.005	<0.005	<0.005
	Ethylbenzene			<0.005							<0.005	<0.005	<0.005
	Xylenes			<0.01							<0.01	<0.01	<0.01
	MTBE			<0.005							<0.005	<0.005	<0.005
MW-13	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	0.0322	0.0644	0.0511	0.285	0.234	0.102	0.0629	0.418	0.37	0.0484	0.0944	0.106
MW-14	Benzene	Not Sampled				<0.005	Not Sampled						
	Toluene					<0.005							
	Ethylbenzene					<0.005							
	Xylenes					<0.01							
	MTBE					<0.005							
MW-15	Benzene	6.29	2.94	0.55' LNAPL	0.601	1.38	9.24	2.08	4.38	1.86	5.92	4.14	5.43
	Toluene	17.6	9.67		2.19	7.08	18.40	5.45	8.20	5.49	17.90	7.55	10.30
	Ethylbenzene	2.6	2.64		0.789	0.847	2.32	1.63	2.23	1.47	3.02	1.98	3.01
	Xylenes	13.74	11.65		3.87	4.59	11.81	7.68	11.33	7.27	16.10	10.67	14.70
	MTBE	1.68	0.187		0.067	0.145	1.01	0.922	0.714	0.561	1.03	1.23	0.289
MW-16	Benzene	1.39	3.52	0.97' LNAPL	1.03' LNAPL	1.64	1.05	0.581	0.794	0.225	0.881	0.817	1.25
	Toluene	3.36	9.22			16.60	8.03	6.05	8.85	2.43	5.18	4.72	6.65
	Ethylbenzene	1.05	1.58			2.89	2.00	4.69	3.18	1.33	1.86	1.78	1.90
	Xylenes	3.43	4.7			14.22	9.93	22.70	16.52	5.09	7.61	7.40	8.32
	MTBE	<0.04	<0.04			0.0695	0.0359	0.285	0.406	<0.04	0.162	1.95	0.137
MW-17	Benzene	28.1	30.7	0.12' LNAPL	0.5 inches LNAPL observed	0.996	0.44' LNAPL	13.40	7.45	4.43	30.30	25.70	24.70
	Toluene	47.5	57.6			0.950		20.80	5.50	5.82	80.80	46.50	38.60
	Ethylbenzene	4.19	5.72			0.127		2.42	1.19	0.992	4.60	4.18	3.48
	Xylenes	20.9	24.03			2.0		9.75	6.14	5.80	18.80	16.90	13.57
	MTBE	48.4	17.8			1.05		22.00	13.90	39.00	22.10	30.00	28.10
MW-18	Benzene	<0.005	0.129	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	0.0733	2.03	2.12	0.98	<0.005	<0.005	2.47	1.90	<0.005	0.00787	1.07	1.06
MW-19	Benzene	0.698	0.294	0.0962	0.207	1.54	1.56	2.64	0.992	2.66	2.61	1.66	1.94
	Toluene	0.0602	0.0066	<0.005	0.00647	0.0673	0.631	1.19	0.22	0.76	1.91	0.286	0.0888
	Ethylbenzene	0.208	0.0702	0.0103	0.33	0.0747	0.299	0.668	0.514	1.15	1.71	1.48	1.40
	Xylenes	0.362	0.0537	0.0146	0.0177	0.054	0.338	1.207	1.196	1.37	3.20	3.03	2.18
	MTBE	<0.005	0.0161	0.128	0.39	0.863	0.198	0.521	0.407	0.615	1.42	1.45	1.44
MW-20	Benzene	<0.005	<0.005	<0.005	<0.005	<0.005	0.00863	<0.005	0.008	0.0164	0.0285	0.014	0.0173
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005	<0.005	<0.005	0.0125	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	0.00767	<0.01	<0.01	0.00684	0.0173	0.0132	0.02
	MTBE	0.0111	0.0181	0.0486	0.0594	0.00808	0.0132	0.0142	0.0116	<0.005	0.00984	0.018	0.0366
MW-21	Benzene	<0.005	1.16	0.527	0.112	<0.005	<0.005	0.777	0.549	<0.005	0.327	1.21	0.045
	Toluene	<0.005	0.104	0.0837	0.032	<0.005	<0.005	0.0702	<0.05	<0.005	<0.005	0.0593	0.0914
	Ethylbenzene	<0.005	1.04	0.557	0.385	<0.005	<0.005	0.342	0.399	<0.005	0.0433	0.415	0.311
	Xylenes	<0.01	1.4	1.05	0.272	<0.01	<0.01	0.378	0.441	<0.01	0.00754	0.623	0.238
	MTBE	<0.005	0.00851	1.13	0.497	<0.005	<0.005	0.139	0.845	<0.005	0.095	0.458	0.502
MW-22	Benzene	0.204	1.97	1.65	1.56	0.677	1.82	0.175	1.74	0.842	3.06	2.75	2.27
	Toluene	0.00559	0.126	0.113	0.16	0.135	0.101	0.0113	<1.00	<0.1	<0.1	<0.1	<0.1
	Ethylbenzene	0.0637	1.09	0.792	0.48	1.14	0.903	0.0791	0.726	0.726	1.35	1.20	0.938
	Xylenes	0.0895	1.18	1.4	0.934	2.07	1.68	0.155	1.50	1.26	2.54	2.29	1.78
	MTBE	0.145	2.65	3.49	0.476	1.79	1.72	3.23	2.36	1.75	3.00	5.20	3.02
MW-23	Benzene	<0.005	<0.005	<0.005	dry	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE	0.171	0.0265	0.0184		<0.005	0.0116	0.00695	<0.005	0.0115	0.033	<0.005	<0.005
MW-24	Benzene	0.167	0.621	0.517	0.392	<0.005	0.0453	0.282	0.0725	<0.005	0.109	0.224	<0.005
	Toluene	<0.005	0.0128	0.0123	<0.005	<0.005	<0.05	<0.005	<0.05	<0.005	<0.05	<0.05	<0.005
	Ethylbenzene	0.006	0.0429	0.0791	0.0298	0.006	<0.05	0.0245	<0.05	<0.05	<0.05	0.0524	<05
	Xylenes	<0.01	0.0417	0.077	0.0291	<0.01	<0.10	0.248	<1.00	<0.1	<0.1	<0.01	<0.1
	MTBE	1.49	1.87	11	4.23	2.12	1.36	3.43	9.80	0.744	2.07	8.84	7.39
MW-25	Benzene	0.0259	0.0209	<0.005	<0.005	<0.005	0.0975	0.0335	0.0208	0.0187	0.317	0.129	0.178
	Toluene	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene	<0.005	0.00753	<0.005	<0.005	<0.005	0.0236	0.0137	0.0104	<0.005	0.0398	0.0302	0.0213
	Xylenes	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0123	0.0102	0.00655
	MTBE	0.641	0.955	0.959	0.661	<0.005	<0.005	0.688	0.729	0.0872	1.12	0.923	11.52
MW-26	Benzene	Installed 12-Aug-13						<0.005	<0.005	Inaccessible	<0.005	<0.005	<0.005
	Toluene							<0.005	<0.005		<0.005	<0.005	<0.005
	Ethylbenzene							<0.005	<0.005		<0.005	<0.005	<0.005
	Xylenes							<0.01	<0.01		<0.01	<0.01	<0.01
	MTBE							<0.005	<0.005		<0.005	<0.005	<0.005
MW-27	Benzene	Installed 12-Aug-13						<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE							1.18	0.889	<0.005	0.506	0.574	0.121
MW-28	Benzene	Installed 12-Aug-13						<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Toluene							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Ethylbenzene							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	Xylenes							<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	MTBE							0.135	<0.005	<0.005	0.0276	<0.005	<0.005
MW-29	Benzene	Installed 22-Apr-14									<0.005	<0.005	<0.005
	Toluene										<0.005	<0.005	<0.005
	Ethylbenzene										<0.005	<0.005	<0.005
	Xylenes										<0.01	<0.01	<0.01
	MTBE										<0.005	<0.005	<0.005
MW-30	Benzene	Installed 22-Apr-14									<0.005	<0.005	<0.005
	Toluene										<0.005	<0.005	<0.005
	Ethylbenzene										<0.005	<0.005	<0.005
	Xylenes										<0.01	<0.01	<0.01
	MTBE										<0.005	<0.005	<0.005
MW-31	Benzene	Installed 22-Apr-14									<0.005	<0.005	<0.005
	Toluene										<0.005	<0.005	<0.005
	Ethylbenzene										<0.005	<0.005	<0.005
	Xylenes										<0.01	<0.01	<0.01
	MTBE										<0.005	<0.005	<0.005
MW-32	Benzene	Installed 12-Nov-14											<0.005
	Toluene												<0.005
	Ethylbenzene												<0.005
	Xylenes												<0.01
	MTBE												0.0157
RW-1	Benzene	<0.005	<0.005	not sampled									
	Toluene	<0.005	<0.005										
	Ethylbenzene	0.0116	<0.005										
	Xylenes	<0.01	<0.01										
	MTBE	<0.005	<0.005										
EX-1	Benzene	0.0202	0.0616	not sampled									
	Toluene	0.00668	<0.005										
	Ethylbenzene	0.0101	0.0106										
	Xylenes	0.0338	0.0723										
	MTBE	<0.005	0.0561										
EX-2	Benzene	0.0637	0.146	not sampled									
	Toluene	<0.005	0.0906										
	Ethylbenzene	<0.005	0.128										
	Xylenes	<0.01	0.284										
	MTBE	0.548	0.266										

Concentrations reported in mg/L

Groundwater BTEX/MTBE Concentrations (February 2015 through Present)

Former C & H Marathon

North Manchester, Wabash County

Well Identification	Laboratory Parameter	Sample Date						
		2/18/2015*	7-May-15	26-Aug-15	3-Nov-15	15-Feb-16	11-May-16	10-Aug-16
MW-1	Benzene	Not sampled						
	Toluene							
	Ethylbenzene							
	Xylenes							
	MTBE							
MW-2	Benzene	35.2	110	<5	<5	166	<5	<5
	Toluene	<5	31.1	<5	<5	<5	<5	<5
	Ethylbenzene	<5	5.29	<5	<5	9.45	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	<5	<5	<5	<5	<5	<5	<5
MW-3	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	<5	6.89	<5	<5	<5	<5	<5
MW-4	Benzene	Destroyed during February 2002 evacuation						
	Toluene							
	Ethylbenzene							
	Xylenes							
	MTBE							
MW-5	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	9.8	6.69	8.89	9.00	19.7	8.70	7.11
MW-6	Benzene	Not Sampled						
	Toluene							
	Ethylbenzene							
	Xylenes							
	MTBE							
MW-7	Benzene	Not Sampled						
	Toluene							
	Ethylbenzene							
	Xylenes							
	MTBE							
MW-8	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	<5	<5	<5	<5	<5	<5	<5
MW-9(a)	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<5	<10	<10	<10	<10
	MTBE	18.1	6.59	45.4	63.0	15.2	10.3	42.2
MW-10	Benzene	Destroyed in sewer construction 2013						
	Toluene							
	Ethylbenzene							
	Xylenes							
	MTBE							
MW-11	Benzene	<5	Dry	<5	<5	<5	<5	<5
	Toluene	<5		<5	<5	<5	<5	<5
	Ethylbenzene	<5		<5	<5	<5	<5	<5
	Xylenes	<10		<10	<10	<10	<10	<10
	MTBE	<5		<5	<5	<5	<5	<5
MW-12	Benzene	<5	Not Sampled	<5	<5	<5	<5	<5
	Toluene	<5		<5	<5	<5	<5	<5
	Ethylbenzene	<5		<5	<5	<5	<5	<5
	Xylenes	<10		<10	<10	<10	<10	<10
	MTBE	<5		<5	<5	<5	<5	<5
MW-13	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	92.7	10.5	35.8	52.7	43.8	5.31	16.5
MW-14	Benzene	Not Sampled						
	Toluene							
	Ethylbenzene							
	Xylenes							
	MTBE							
MW-15	Benzene	10,200	13,500	7,470	3,270	14,800	15,100	16,300
	Toluene	15,500	17,900	13,300	6,300	18,300	55,600	34,400
	Ethylbenzene	3,670	6,000	2,460	1,570	4,130	25,100	4,050
	Xylenes	14,280	25,300	21,000	8,310	17,700	115,500	19,900
	MTBE	1,430	2,040	833	939	3,450	1,640	1,160
MW-16	Benzene	574	252	686	380	978	64.0	588
	Toluene	1,710	873	4,500	1,740	1,940	440	1,640
	Ethylbenzene	1,400	748	3,100	1,480	1,490	276	1,570
	Xylenes	6,690	2,990	20,200	6,770	6,810	1,297	6,720
	MTBE	110	169	78.3	2,500	214	<40	158

Concentrations reported in µg/L

*Sampled 23-Mar-15 : MW-5, MW-12, MW-24, MW-26, MW-27, MW-28, MW-29

Groundwater BTEX/MTBE Concentrations (February 2015 through Present)

Former C & H Marathon

North Manchester, Wabash County

Well Identification	Laboratory Parameter	Sample Date						
		2/18/2015*	7-May-15	26-Aug-15	3-Nov-15	15-Feb-16	11-May-16	10-Aug-16
MW-17	Benzene	16,000	32,500	17,600	22,100	21,500	15,300	26,500
	Toluene	5,330	62,800	10,100	41,500	19,800	48,600	42,000
	Ethylbenzene	1,180	3,670	998	4,100	2,650	49,500	3,670
	Xylenes	5,250	14,420	6,990	18,450	12,620	184,000	16,800
	MTBE	44,300	16,800	28,100	26,800	50,400	11,200	39,100
MW-18	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	9.94	<5	2,090	878	<5	<5	1,170
MW-19	Benzene	1,660	1,940	1,920	1,930	3,320	376	2,110
	Toluene	67.5	124	92.9	60.4	152	21.7	78.2
	Ethylbenzene	1,250	1,020	1,750	1,570	2,050	131	1,300
	Xylenes	2,220	1,840	3,100	3,200	5,910	794	2,160
	MTBE	947	1,420	1,130	1,070	1,900	571	1,320
MW-20	Benzene	<5	12.1	7.74	6.84	<5	<5	9.24
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	8.82	10.3	<10	<10	<10
	MTBE	<5	<5	6.54	29.9	5.14	<5	18.9
MW-21	Benzene	<5	45.8	909	571	38.3	<5	526
	Toluene	<5	<5	36.1	72.6	10.3	<5	31.1
	Ethylbenzene	<5	<5	203	181	22.9	<5	168
	Xylenes	<10	<10	627	297	55.3	<10	69.3
	MTBE	<5	100	212	327	307	<5	157
MW-22	Benzene	1,880	2,500	1,890	1,470	2,370	<5	2,020
	Toluene	<100	<100	<100	<100	<100	<5	48.6
	Ethylbenzene	720	914	543	421	729	<5	467
	Xylenes	1,590	1,950	1,790	1,460	2,130	<10	1,420
	MTBE	3,610	5,170	5,780	6,850	4,250	<5	7,080
MW-23	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	<5	<5	<5	<5	<5	50.0	<5
MW-24	Benzene	<5	<5	80.8	7.40	<5	<5	66.1
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	22.1	11.2	<5	<5	<5
	Xylenes	<10	<10	35.8	38.5	<10	<10	40.7
	MTBE	368	523	8,100	9,500	3,510	269	7,390
MW-25	Benzene	693	468	170	92.8	625	187	103
	Toluene	11.6	<5	6.51	<5	16.3	15.3	5.17
	Ethylbenzene	65.9	28.5	26.5	7.93	58.8	42.2	<5
	Xylenes	34.2	<10	16.3	13.1	58	53.0	18.0
	MTBE	1,390	1,750	1,030	1,840	1,880	1,180	1,250
MW-26	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	<5	<5	<5	<5	<5	<5	<5
MW-27	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	43.7	64.8	437	862	99.8	47.8	204
MW-28	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	28.5	<5	<5	<5	<5	45.2	<5
MW-29	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	<5	<5	<5	<5	<5	<5	<5
MW-30	Benzene	<5		<5	<5	<5	<5	<5
	Toluene	<5		<5	<5	<5	<5	<5
	Ethylbenzene	<5	Dry	<5	<5	<5	<5	<5
	Xylenes	<10		<10	<10	<10	<10	<10
	MTBE	<5		<5	<5	<5	<5	<5
MW-31	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	<5	<5	<5	<5	<5	<5	<5
MW-32	Benzene	<5	<5	<5	<5	<5	<5	<5
	Toluene	<5	<5	<5	<5	<5	<5	<5
	Ethylbenzene	<5	<5	<5	<5	<5	<5	<5
	Xylenes	<10	<10	<10	<10	<10	<10	<10
	MTBE	20.2	32.6	16.2	22.1	25.3	21.2	29.4

Concentrations reported in µg/L

*Sampled 23-Mar-15 : MW-5, MW-12, MW-24, MW-26, MW-27, MW-28, MW-29

Residential Basement Screening
Former C & H Marathon
North Manchester, Wabash County

103 Mill Street

Date	PID Reading (ppmv)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)
19-Aug-10	0	<0.005	<0.005	<0.005	<0.01	<0.005
21-Sep-10	0	<0.005	<0.005	<0.005	<0.01	<0.005
29-Oct-10	0	<0.005	<0.005	<0.005	<0.01	<0.005
11-Nov-10	0	<0.005	<0.005	<0.005	<0.01	<0.005
16-Dec-10	0	<0.005	<0.005	<0.005	<0.01	<0.005
31-Jan-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
25-Feb-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
8-Mar-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
5-Apr-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
20-May-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
17-Jun-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
29-Jul-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
23-Aug-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
23-Sep-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
28-Oct-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
18-Nov-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
20-Dec-11	50	<0.005	<0.05	0.0544	0.475	<0.04
24-Jan-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
28-Feb-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
27-Mar-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
26-Apr-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
31-May-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
20-Jun-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
27-Jul-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
29-Aug-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
18-Sep-12	0	no sample collected				
16-Oct-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
14-Nov-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
10-Dec-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
8-Jan-13	0	<0.005	<0.005	<0.005	<0.01	<0.005
7-Feb-13	0	<0.005	<0.005	<0.005	<0.01	<0.005
4-Mar-13	0.1	<0.005	<0.005	<0.005	<0.01	<0.005
15-Apr-13	N/A	<0.005	<0.005	<0.005	0.00868	<0.005
14-May-13	8.0	<0.005	<0.005	<0.005	0.0384	<0.005
25-Jun-13	5.0	<0.005	<0.005	<0.005	<0.01	<0.005
26-Jul-13	0	<0.005	<0.005	<0.005	0.00869	<0.005
21-Aug-13	0.3	<0.005	<0.005	<0.005	<0.01	<0.005
18-Sep-13	0.1	<0.005	<0.005	<0.005	<0.01	<0.005
16-Oct-13	0	<0.005	<0.005	<0.005	<0.01	<0.005
26-Nov-13	8.9	<0.005	<0.005	<0.005	<0.01	<0.005
30-Dec-13	0.1	<0.005	<0.005	<0.005	<0.01	<0.005
24-Jan-14	0.0	<0.005	<0.005	<0.005	<0.01	<0.005
27-Feb-14	0.3	<0.005	<0.005	<0.005	<0.01	<0.005
19-Mar-14	2.3	0.00628	0.0337	0.00896	0.0555	<0.005
22-Apr-14	0.3	<0.005	0.0109	0.0077	0.101	<0.005
6-May-14	0.3	<0.005	<0.005	<0.005	<0.01	<0.005
6-Jun-14	0.3	<0.005	<0.005	<0.005	<0.01	<0.005
22-Jul-14	0.8	<0.005	<0.005	<0.005	<0.01	<0.005
25-Aug-14	0	<0.005	<0.005	<0.005	<0.01	<0.005
22-Oct-14	0	<0.005	<0.005	<0.005	<0.01	<0.005
17-Nov-14	0	<0.005	<0.005	<0.005	<0.01	<0.005
17-Dec-14	1.3	<0.005	<0.005	<0.005	<0.01	<0.005
19-Jan-15	0.5	<0.005	<0.005	<0.005	<0.01	<0.005
* 18-Feb-15	-	Inaccessible				
23-Mar-15	0	<0.005	<0.005	<0.005	<0.01	<0.005
10-Apr-15	-	Inaccessible				
7-May-15	0.6	<0.005	<0.005	<0.005	<0.01	<0.005
10-Jun-15	0	<0.005	<0.005	<0.005	<0.01	<0.005
23-Jul-15	0.3	<0.005	<0.005	<0.005	<0.01	<0.005
26-Aug-15	1.3	<0.005	<0.005	<0.005	<0.01	<0.005
24-Sep-15	0.5	<0.005	<0.005	<0.005	<0.01	<0.005
21-Oct-15	unavailable	<0.005	<0.005	<0.005	<0.01	<0.005
3-Nov-15	0	<0.005	<0.005	<0.005	<0.01	<0.005
22-Dec-15	0	<0.005	<0.005	<0.005	<0.01	<0.005
25-Jan-16	0	<0.005	<0.005	<0.005	<0.01	<0.005
15-Feb-16	0.1	<0.005	<0.005	<0.005	<0.01	<0.005
30-Mar-16	0	<0.005	<0.005	<0.005	<0.01	<0.005
22-Apr-16	0	<0.005	<0.005	<0.005	<0.01	<0.005
11-May-16	0.1	<0.005	<0.005	<0.005	<0.01	0.00542
24-Jun-16	0	<0.005	<0.005	<0.005	<0.01	<0.005
20-Jul-16	-	Inaccessible				
10-Aug-16	0.2	<0.005	<0.005	<0.005	<0.01	<0.005
28-Sep-16	-	<0.005	<0.005	<0.005	<0.01	<0.005

*PID malfunction due to freezing temperatures / PID unavaliable 28-Sep-16

Residential Basement Screening
Former C & H Marathon
North Manchester, Wabash County

103 1/2 Mill Street

Date	PID Reading (ppmv)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)
19-Aug-10	0	Dry				
21-Sep-10	0	Dry				
29-Oct-10	0	Dry				
11-Nov-10	0	Dry				
16-Dec-10	0	Dry				
31-Jan-11	0	Dry				
25-Feb-11	0	<0.005	<0.005	<0.005	<0.01	0.0264
8-Mar-11	0	<0.005	<0.005	<0.005	<0.01	0.0119
5-Apr-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
16-May-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
17-Jun-11	0	Dry				
29-Jul-11	0	Dry				
23-Aug-11	0	Dry				
23-Sep-11	0	Dry				
20-Oct-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
20-Nov-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
20-Dec-11	0	<0.005	<0.005	<0.005	<0.01	<0.005
24-Jan-12	0	<0.005	<0.005	<0.005	<0.01	0.0226
28-Feb-12	0	<0.005	<0.005	<0.005	<0.01	0.0396
22-Mar-12	1	<0.005	<0.005	<0.005	<0.01	<0.005
26-Apr-12	0	Dry				
31-May-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
20-Jun-12	0	Dry				
27-Jul-12	0.4	Dry				
29-Aug-12	0	Dry				
6-Sep-12	0	no sample collected				
16-Oct-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
14-Nov-12	0	<0.005	<0.005	<0.005	<0.01	<0.005
10-Dec-12	0	Dry				
8-Jan-13	0.2	no sample collected				
7-Feb-13	0	<0.005	<0.005	<0.005	<0.01	<0.005
4-Mar-13	0	<0.005	<0.005	<0.005	<0.01	<0.005
15-Apr-13	0	Dry				
14-May-13	0	<0.005	<0.005	<0.005	<0.01	<0.005
25-Jun-13	0	Dry				
26-Jul-13	0	Dry				
21-Aug-13	0	Dry				
18-Sep-13	0	Dry				
16-Oct-13	0	Dry				
26-Nov-13	8.9	<0.005	<0.005	<0.005	<0.01	<0.005
30-Dec-13	0	<0.005	<0.005	<0.005	<0.01	<0.005
24-Jan-14	0	<0.005	<0.005	<0.005	<0.01	0.00527
27-Feb-14	0.1	<0.005	<0.005	<0.005	<0.01	0.00913
19-Mar-14	0	<0.005	<0.005	<0.005	<0.01	0.0199
22-Apr-14	0	<0.005	0.011	<0.005	<0.01	0.00782
6-May-14	0.1	<0.005	<0.005	<0.005	<0.01	0.00913
6-Jun-14	0.4	<0.005	0.0198	<0.005	<0.01	<0.005
22-Jul-14	0	Dry				
25-Aug-14	0	<0.005	<0.005	<0.005	<0.01	<0.005
22-Oct-14	0.1	Dry				
17-Nov-14	0	Dry				
17-Dec-14	0.6	<0.005	<0.005	<0.005	<0.01	0.00528
19-Jan-15	0.1	Dry				
* 18-Feb-15	-	<0.005	0.0198	<0.005	<0.01	<0.005
23-Mar-15	0.4	<0.005	0.0198	<0.005	<0.01	0.00507
10-Apr-15	0.1	<0.005	<0.005	<0.005	<0.01	<0.005
7-May-15	0.2	<0.005	<0.005	<0.005	<0.01	<0.005
10-Jun-15	0.3	Dry				
23-Jul-15	0	Dry				
26-Aug-15	0.3	Dry				
24-Sep-15	0.1	Dry				
21-Oct-15	unavailable	Dry				
3-Nov-15	0	Dry				
22-Dec-15	0.2	Dry				
25-Jan-16	1.0	Dry				
15-Feb-16	0	<0.005	<0.005	<0.005	<0.01	<0.005
30-Mar-16	0	<0.005	<0.005	<0.005	<0.01	0.0156
22-Apr-16	0	<0.005	<0.005	<0.005	<0.01	<0.005
11-May-16	0	<0.005	<0.005	<0.005	<0.01	0.00542
24-Jun-16	0	Dry				
20-Jul-16	0	Dry				
10-Aug-16	0	Dry				
28-Sep-16		Dry				

*PID malfunction due to freezing temperatures

Product Abatement
Former C& H Marathon
North Manchester, Wabash County

Monitor Well MW-15 (installed 13-Jan-10)

Date	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Abatement Notes
11-Feb-10	6.35	12.07	5.72	~1/4 gallon of product
4-Mar-10	5.88	11.93	6.05	~1/2 gallon of product
23-Apr-10	6.78	11.97	5.19	3 gallon total purged
19-May-10	5.97	10.36	4.39	337.75 " product , 1 3/4 gallon total purged
11-Jun-10				303.25 product , 1/2 gallon total purged
15-Jul-10				34.00 product , 1 gallon total purged
19-Aug-10	8.95	10.85	1.90	105.00 product
21-Sep-10	10.05	10.91	0.86	22.50 product , 1/2 gallon total purged
28-Oct-10	11.06	11.95	0.89	17.00 product
11-Nov-10	11.06	11.86	0.80	13.50 product , 1/2 gallon total purged
14-Dec-10	10.02	11.61	1.59	42.25 product , 1/2 gallon total purged
31-Jan-11				88.00 product , 1/2 gallon total purged
25-Feb-11	7.54	9.09	1.55	22.50 product , 1/2 gallon total purged
8-Mar-11	6.54	6.81	0.27	4.25 product , 1/2 gallon total purged
5-Apr-11	7.71	7.99	0.28	4.50 product , 1/4 gallon purged
16-May-11	5.85	5.90	0.05	droplets of product
17-Jun-11	7.82	8.14	0.32	2.25 product , 1/4 gallon total purged
29-Jul-11	unable to gauge product	9.90	---	1.50 product, 1/4 gallon total purged
23-Aug-11	10.00	10.11	0.11	0.75 product, 1/4 gallon total purged
23-Sep-11	10.46	10.55	0.09	0.25 product, 1/4 gallon total purged
20-Oct-11	8.62	8.64	0.02	0.25 product, 1/4 gallon total purged
18-Nov-11	N/A	8.30	0.00	N/A
20-Dec-11	N/A	6.26	0.00	N/A
24-Jan-12	6.34	6.28	0.06	0.75 product, 1/4 gallon total purged
28-Feb-12	7.38	7.25	0.13	0.75 product, 1/4 gallon total purged
22-Mar-12	7.96	7.68	0.28	2.25 product, 1/4 gallon total purged
26-Apr-12	8.74	9.05	0.31	3.00 product, 1/4 gallon total purged
31-May-12	9.65	9.84	0.19	1.25 product, 1/4 gallon total purged
20-Jun-12	IFP malfunction			2.25 product
27-Jul-12	IFP malfunction			7.88 product, 1/2 gallon total purged
7-Aug-12	11.21	11.32	0.11	EFR
23-Aug-12	11.24	11.51	0.27	EFR
6-Sep-12	10.60	10.68	0.08	EFR
18-Sep-12		10.41		EFR
3-Oct-12		10.62		EFR
16-Oct-12		10.66		EFR
14-Nov-12		9.88		
10-Dec-12	9.66	9.67	0.01	0.13 product, 1/4 gallon purged
8-Jan-13		8.90	0.00	N/A
7-Feb-13		7.49	0.00	N/A
4-Mar-13		6.96	0.00	N/A
15-Apr-13				No IFP, no LNAPL
14-May-13	7.71	7.75	0.04	0.25 " product, less than 1/4 gallon total purged
25-Jun-13	8.21	8.24	0.03	EFR
26-Jul-13	9.06	9.18	0.12	0.25 " product, less than 1/4 gallon total purged
21-Aug-13	9.34	9.47	0.13	0.75 " product, less than 1/4 gallon total purged
18-Sep-13	10.10	10.16	0.06	0.125 " product, less than 1/4 gallon total purged
16-Oct-13	10.60	10.79	0.19	1 " product, less than 1/4 gallon total purged
11-Nov-13	10.38	10.42	0.04	<0.125 " product, 1/4 gallon total purged
30-Dec-13	8.66	8.71	0.05	0.25 " product, less than 1/4 gallon total purged
24-Jan-14	7.77	7.78	0.01	0.125 " product to less than 1/4 gall total purged
27-Feb-14	N/A	6.92	0.00	N/A
18-Mar-14	N/A	6.18	0.00	N/A
8-Apr-14				No IFP, no LNAPL
6-May-14	7.97	8.06	0.09	0.5 " product to less than 1/4 gallon total purged
6-Jun-14	8.42	8.58	0.16	1 " product to less than 1/4 gallon total purged
22-Jul-14	9.45	9.65	0.20	0.5 " product to less than 1/4 gallon total purged
25-Aug-14	10.25	10.37	0.12	0.25 " product to 1/4 gallon total purged
16-Sep-14	10.03	10.08	0.05	0.125 " product to less than 1/4 gallon total purged
22-Oct-14	9.37	9.46	0.09	0.125 " product to less than 1/4 gallon total purged
17-Nov-14	9.36	9.46	0.10	0.25 " product to less than 1/4 gallon total purged
17-Dec-14	8.65	8.9	0.25	0.75 " product to 1/4 gallon total purged
19-Jan-15	8.31	8.41	0.1	1 " product to less than 1/4 gallon total purged
18-Feb-15	7.92	8.00	0.08	LNAPL did not accumulate
23-Mar-15	7.69	7.80	0.11	No abatement, equipment malfunction
10-Apr-15	7.25	7.38	0.13	0.50 " product to less than 1/4 gallon total purged
7-May-15	7.90	8.15	0.25	2.00 " product to 1/4 gallon total purged
10-Jun-15	8.54	8.73	0.19	1.25 " product to less than 1/4 gallon total purged
23-Jul-15	7.51	7.62	0.11	1.25 " product to less than 1/4 gallon total purged
26-Aug-15	9.33	9.50	0.17	1.00 " product to 1/4 gallon total purged
24-Sep-15	9.65	9.75	0.10	0.125 " product to less than 1/4 gallon total purged
21-Oct-15	10.31	10.33	0.02	0.125 " product to less than 1/4 gallon total purged
3-Nov-15	N/A	10.44	0.00	N/A
22-Dec-15	N/A	9.45	0.00	N/A
25-Jan-16	N/A	7.86	0.00	N/A
15-Feb-16	8.25	8.33	0.08	0.25 " product to 1/2 gallon total purged
30-Mar-16	7.34	7.42	0.08	0.25 " product to less than 1/4 gallon total purged
22-Apr-16	7.03	7.15	0.12	0.75 " product to less than 1/4 gallon total purged
11-May-16	6.08	6.23	0.15	2.5 " product to 1/4 gallon total purged
24-Jun-16	7.96	8.05	0.09	0.5 " poduct to less than 1/4 gallon total purged
20-Jul-16	9.19	9.44	0.25	1.0 " product less than 1/4 gallon total purged
10-Aug-16	9.93	10.13	0.20	1.5 " product to less than 1/4 gallon total purged
28-Sep-16	9.63	9.79	0.16	0.75 " product to less than 1/4 gallon total purged

Manual product abatement was not conducted in August, September, October 2012 due to bi-weekly EFR events

Product Recovered at MW-15

	Inches	Gallons
Present Quarter	3.25	0.0332
Total	1038.75	10.6055

Product Abatement
Former C& H Marathon
North Manchester, Wabash County

Monitor Well MW-17 (installed on 18-Aug-10)

Date	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Abatement Notes
19-Aug-10	8.54	9.15	0.61	3.00 " product , wait for recharge - product did not return
21-Sep-10	9.41	10.41	1.00	8.50 " product , 1/4 gallon total purged
28-Oct-10	10.45	11.09	0.64	10.25 " product
11-Nov-10	10.48	10.70	0.22	2.50 " product , 1/4 gallon total purged
14-Dec-10		9.63		
31-Jan-11				no product
25-Feb-11		7.21		
8-Mar-11		5.92		
5-Apr-11		7.09		
16-May-11		5.25		
17-Jun-11		7.31		
29-Jul-11	unable to gauge product	9.48	---	0.25 " product, 1/4 gallon total purged
23-Aug-11	9.28	10.02	0.74	5.25 " product, 1/4 gallon total purged
23-Sep-11	9.75	10.36	0.61	2.25 " product, 1/4 gallon total purged
20-Oct-11	N/A	7.95	N/A	N/A
18-Nov-11	N/A	7.64	N/A	N/A
20-Dec-11	N/A	5.65	N/A	N/A
24-Jan-12	N/A	5.63	N/A	N/A
28-Feb-12	N/A	6.61	N/A	N/A
22-Mar-12	7.94	6.93	1.01	13.25 " product, 1/4 gallon total purged
26-Apr-12	7.72	9.95	2.23	91 " product, 1/2 gallon total purged
31-May-12	8.76	10.12	1.36	24.5 " product, 1/2 gallon total purged
20-Jun-12	IFP malfunction			5.00 " product, 1/4 gallon total purged
27-Jul-12	IFP malfunction			14.25 14.25" product, 1/4 gallon total purged
7-Aug-12		10.77		EFR
23-Aug-12	10.60	10.69	0.09	EFR
6-Sep-12		10.41		EFR
18-Sep-12		9.74		EFR
3-Oct-12		9.95		EFR
16-Oct-12		9.98		EFR
14-Nov-12		9.24		5 " product, 1/4 gallon total purged (IFP did not indicate LPH)
10-Dec-12		9.00		
8-Jan-13		8.25	0.00	N/A
7-Feb-13		6.82	0.00	N/A
4-Mar-13		6.31	0.00	N/A
15-Apr-13				No IFP, No LPH
14-May-13	7.01	7.45	0.44	3.25 " product, 1/4 gallon total purged
25-Jun-13	7.59	7.84	0.25	EFR
26-Jul-13	8.33	9.06	0.73	0.75 " product, less than 1/4 gallon total purged
21-Aug-13	8.64	9.25	0.61	4.00 " product, 1/4 gallon total purged
18-Sep-13	9.42	9.73	0.31	0.75 " product, less than 1/4 gallon total purged
16-Oct-13	9.93	10.23	0.30	1.00 " product, less than 1/4 gallon total purged
11-Nov-13	N/A	9.62	0.00	N/A
30-Dec-13	N/A	8.02	0.00	N/A
24-Jan-14	N/A	7.08	0.00	N/A
27-Feb-14	N/A	6.24	0.00	N/A
18-Mar-14	N/A	5.53	0.00	N/A
8-Apr-14				0.5 " product, < 1/4 gallon total purged
6-May-14	7.16	8.31	1.19	33.5 " product
6-Jun-14	7.59	8.92	1.33	33 " product, <1/4 gallon total purged
22-Jul-14	8.63	9.63	1.00	11.75 " product, < 1/4 gallon total purged
25-Aug-14	9.43	10.19	0.76	3.0 " product, 1/4 gallon total purged
16-Sep-14	9.30	9.65	0.35	1 " product, <1/4 gallon total purged
22-Oct-14	8.68	9.01	0.33	0.5 " product, <1/4 gallon total purged
17-Nov-14	8.69	8.90	0.21	0.75 " product, 1/4 gallon total purged
17-Dec-14	8.00	8.02	0.02	0.125 " product, <1/4 gallon total purged
19-Jan-15	N/A	7.63	0.00	N/A
18-Feb-15	N/A	7.23	0.00	N/A
23-Mar-15	Inaccessible			Inaccessible
10-Apr-15	6.50	7.24	0.74	12.25 " product, 1/4 gallon total purged
7-May-15	6.91	9.04	2.13	99 " product, 1/2 gallon total purged
10-Jun-15	7.59	9.35	1.76	2 " product, to 3/4 gallon total purged
23-Jul-15	6.75	7.73	0.98	9 " product, to 1 gallon total purged
26-Aug-15	8.55	9.47	0.92	0.5 " product, to 1/2 gallon total purged
24-Sep-15	8.88	9.29	0.41	0.125 " product, to 1/4 gallon total purged
21-Oct-15	9.57	10.00	0.03	1 " product to 1/4 gallon total purged
3-Nov-15	9.66	9.83	0.17	0.25 " product to 1/4 gallon total purged
22-Dec-15	N/A	8.74	0.00	N/A
25-Jan-16	N/A	7.21	0.00	N/A
15-Feb-16	N/A	7.53	0.00	N/A
30-Mar-16	N/A	7.62	0.00	N/A
22-Apr-16	6.34	6.76	0.42	2.75 " product to less than 1/4 gallon total purged
11-May-16	5.28	6.35	1.07	0.25 " product to 1/4 gallon total purged
24-Jun-16	7.05	8.22	1.17	22.0 " product to 1/4 gallon total purged
20-Jul-16	8.45	9.38	0.93	13.0 " product to 1/4 gallon total purged
10-Aug-16	9.23	9.95	0.72	0.25 " product to 1/4 gallon total purged
28-Sep-16	N/A	8.99	0.00	N/A

Manual product abatement was not conducted in August, September, October 2012 due to bi-weekly EFR events

Product Recovered at MW-17

	Inches	Gallons
Present Quarter	13.25	0.1353
Total	441.25	4.5051

Product Abatement
Former C& H Marathon
North Manchester, Wabash County

Monitor Well MW-16 (installed on 18-Aug-10)

Date	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Abatement Notes
7-Aug-12		10.93		EFR
23-Aug-12	10.86	11.78	0.92	EFR
6-Sep-12	10.72	11.39	0.67	EFR
18-Sep-12	10.02	10.92	0.9	EFR
3-Oct-12	10.27	11.1	0.83	EFR
16-Oct-12	10.27	11.02	0.75	EFR
14-Nov-12	9.35	10.38	1.03	12.00 " product, 1/4 gallon total purged
10-Dec-12	9.24	10.25	1.01	14.25 " product, 1/2 gallon total purged
8-Jan-13	8.56	8.84	0.28	0.50 " product, 3/4 gallon total purged
7-Feb-13	7.13	7.23	0.10	0.13 " product, 1/4 gallon total purged
4-Mar-13	N/A	6.64	0.00	N/A
15-Apr-13				No IFP
14-May-13	7.40	7.43	0.03	0.13 " product, 1/2 gallon total purged
25-Jun-13	7.93	8.04	0.11	EFR
26-Jul-13	8.80	8.96	0.16	0.50 " product, less than 1/4 gallon total purged
21-Aug-13	9.07	9.29	0.22	0.50 " product, less than 1/4 gallon total purged
18-Sep-13	9.79	10.35	0.56	2.00 " product, less than 1/4 gallon total purged
16-Oct-13	10.33	10.63	0.30	0.75 " product, less than 1/4 gallon total purged
11-Nov-13	10.00	10.07	0.07	0.125 " product, 1/4 gallon total purged
30-Dec-13	N/A	8.36	0.00	N/A
24-Jan-14	N/A	7.46	0.00	N/A
27-Feb-14	N/A	6.61	0.00	N/A
18-Mar-14	N/A	5.88	0.00	N/A
8-Apr-14				No IFP, No LNAPL
6-May-14	N/A	7.72	0.00	N/A
6-Jun-14	N/A	8.17	0.00	N/A
22-Jul-14	N/A	9.20	0.00	N/A
25-Aug-14	N/A	9.93	0.00	N/A
16-Sep-14	N/A	9.75	0.00	N/A
22-Oct-14	N/A	9.09	0.00	N/A
17-Nov-14	N/A	9.09	0.00	N/A
17-Dec-14	N/A	8.38	0.00	N/A
19-Jan-15	N/A	7.63	0.00	N/A
18-Feb-15	N/A	7.62	0.00	N/A
23-Mar-15	N/A	7.45	0.00	N/A
10-Apr-15	N/A	7.00	0.00	N/A
7-May-15	N/A	6.79	0.00	N/A
10-Jun-15	N/A	8.29	0.00	N/A
23-Jul-15	7.25	7.36	0.09	0.75 " product, less than 1/4 gallon total purged
26-Aug-15	N/A	9.15	0.00	N/A
24-Sep-15	9.30	9.37	0.07	0.125 " product, 1/2 gallon total purged
21-Oct-15	10.00	10.05	0.05	0.25 " product, less than 1/4 gallon total purged
3-Nov-15	N/A	9.21	0.00	N/A
22-Dec-15	N/A	9.13	0.00	N/A
25-Jan-16	N/A	7.56	0.00	N/A
15-Feb-16	N/A	8.00	0.00	N/A
30-Mar-16	N/A	7.15	0.00	N/A
22-Apr-16	N/A	6.77	0.00	N/A
11-May-16	N/A	5.90	0.00	N/A
24-Jun-16	N/A	7.64	0.00	N/A
20-Jul-16	N/A	9.00	0.00	N/A
10-Aug-16	N/A	9.90	0.00	N/A
28-Sep-16	N/A	9.40	0.00	N/A

Manual product abatement was not conducted in August, September, October 2012 due to bi-weekly EFR events

Product Recovered at MW-16

	Inches	Gallons
Present Quarter	0.00	0.0000
Total	32.00	0.3267

Product Abatement
Former C& H Marathon
North Manchester, Wabash County

Extraction Well EX-3 (installed on 27-Aug-12)

Date	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Abatement Notes
6-Sep-12				EFR
18-Sep-12				EFR
3-Oct-12				EFR
16-Oct-12				EFR
14-Nov-12				N/A
10-Dec-12				N/A
8-Jan-13				N/A
7-Feb-13	6.52	6.94	0.42	19.13 " product, 6 gallons total purged
4-Mar-13	6.09	6.14	0.05	1.25 " product, 1.5 gallons total purged
15-Apr-13				No IFP
14-May-13	6.84	6.90	0.06	0.50 " product, 1.25 gallons total purged
25-Jun-13	N/A	7.07	N/A	N/A
26-Jul-13	7.87	7.88	0.11	9.00 " product, 3 gallons total purged
21-Aug-13	8.42	8.71	0.29	16.00 " product, 4.5 gallons total purged
18-Sep-13	9.19	9.44	0.25	8.75 " product, 2.75 gallons total purged
16-Oct-13	9.63	10.21	0.58	22.25 " product, 5.75 gallons total purged
11-Nov-13	9.33	9.69	0.36	10.75 " product, 3.50 gallons total purged
30-Dec-13	7.63	8.41	0.78	45.00 " product, 6.5 gallons total purged
24-Jan-14	6.81	7.08	0.27	8.50 " product, 2.00 gallons total purged
27-Feb-14	5.98	6.13	0.15	3.75 "product, 2.75 gallons total purged
18-Mar-14	5.29	5.33	0.04	0.25 " product, 2.50 gallons total purged
8-Apr-14				No IFP, No LNAPL
6-May-14	7.12	7.18	0.06	1.50 " product, 2.00 gallons total purged
6-Jun-14	7.55	7.70	0.15	1.50 " product, 2.00 gallons total purged
22-Jul-14	8.49	8.92	0.43	11.00 " product, 4.50 gallons total purged
25-Aug-14	9.18	9.75	0.57	38.00 " product, 7.0 gallons total purged
16-Sep-14	8.97	9.63	0.66	50.75 " product, 7.5 gallons total purged
22-Oct-14	8.33	9.09	0.76	56.00 " product, 6.0 gallons total purged
17-Nov-14	8.36	9.02	0.66	63.00 "product, 10 gallons total purged
17-Dec-14	7.71	8.16	0.45	8.75 " product, 3 gallons total purged
19-Jan-15	7.38	7.55	0.17	30.50 " product, 2 gallons total purged
18-Feb-15	6.99	7.06	0.07	3.50 " product, 3 gallons total purged
23-Mar-15	6.82	6.86	0.04	No abatement, equipment malfunction
10-Apr-15	N/A	6.36	0.00	N/A
7-May-15	N/A	7.08	0.00	N/A
10-Jun-15	7.62	7.89	0.27	1.50 " product, 0.6 gallons total purged
23-Jul-15	6.66	6.76	0.10	2.25 " product, 2.5 gallons total purged
26-Aug-15	8.38	8.74	0.36	285 " product, 0.5 gallons total purged
24-Sep-15	8.59	9.21	0.62	190 " product, 1/4 gallon total purged
21-Oct-15	9.21	9.98	0.77	6 " product, 1.5 gallons total purged
3-Nov-15	9.35	9.79	0.44	66 " product, to 1 gallon total purged
22-Dec-15	8.41	8.96	0.55	38 " product, 8.75 gallons total purged
25-Jan-16	N/A	6.97	N/A	N/A
15-Feb-16	N/A	7.32	N/A	N/A
30-Mar-16	N/A	6.48	N/A	N/A
22-Apr-16	N/A	6.18	N/A	N/A
11-May-16	N/A	5.20	N/A	N/A
24-Jun-16	N/A	8.03	N/A	N/A
20-Jul-16	8.31	8.54	0.23	3.75 " product to 2.5 gallons total purged
10-Aug-16	8.95	9.49	0.54	37 " product to 1 gallon total purged
28-Sep-16	8.53	9.62	1.09	114 " product to 4.5 gallons total purged

Manual product abatement was not conducted in August, September, October 2012 due to bi-weekly EFR events

Product Recovered at EX-3

	Inches	Gallons
Present Quarter	154.75	8.00
Total	1153.13	102.80

Product Abatement
Former C& H Marathon
North Manchester, Wabash County

Extraction Well EX-4 (installed on 27-Aug-12)

Date	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Abatement Notes
6-Sep-12				EFR
18-Sep-12				EFR
3-Oct-12				EFR
16-Oct-12				EFR
14-Nov-12				N/A
10-Dec-12				N/A
8-Jan-13				N/A
7-Feb-13	N/A	6.52	N/A	N/A
4-Mar-13	N/A	5.79	N/A	N/A
15-Apr-13				No IFP
14-May-13	6.52	6.53	0.01	0.125 " product, less than 1/4 gallon total purged
25-Jun-13	7.35	7.46	0.11	2.25 " product, 3 gallons total purged
26-Jul-13	8.13	8.47	0.34	0.125 " product, 1/4 gallon total purged
21-Aug-13	8.17	8.18	0.01	<0.125 " product, 1 gallon total purged
18-Sep-13	N/A	8.91	N/A	N/A
16-Oct-13	N/A	9.41	N/A	N/A
11-Nov-13	N/A	9.08	N/A	N/A
30-Dec-13	N/A	7.47	N/A	N/A
24-Jan-14	N/A	6.54	N/A	N/A
27-Feb-14	N/A	5.70	N/A	N/A
18-Mar-14	N/A	5.02	N/A	N/A
8-Apr-14				No IFP, No LNAPL
6-May-14	N/A	6.83	N/A	N/A
6-Jun-14	N/A	7.30	N/A	N/A
22-Jul-14	N/A	8.23	N/A	N/A
25-Aug-14	8.98	9.04	0.06	0.125 " product, 1/2 gallon total purged
16-Sep-14	8.76	8.82	0.06	0.50 " product, 3/4 gallon total purged
22-Oct-14	8.33	9.09	0.76	<0.125 " product, 1/4 gallon total purged
17-Nov-14	8.19	8.20	0.01	N/A
17-Dec-14	N/A	7.47	N/A	N/A
19-Jan-15	N/A	7.10	N/A	N/A
18-Feb-15	N/A	6.70	N/A	N/A
23-Mar-15	N/A	6.51	N/A	N/A
10-Apr-15	N/A	6.06	N/A	N/A
7-May-15	N/A	6.79	N/A	N/A
10-Jun-15	N/A	7.35	N/A	N/A
23-Jul-15	N/A	6.40	N/A	N/A
26-Aug-15	N/A	8.14	N/A	N/A
24-Sep-15	8.40	8.41	0.01	0.125 " product to 1/4 gallon total purged
21-Oct-15	9.02	9.11	0.09	1.75 " product to 1.25 gallons total purged
3-Nov-15	9.12	9.20	0.08	0.25 " product to 1 gallon total purged
22-Dec-15	N/A	8.20	N/A	N/A
25-Jan-16	N/A	6.67	N/A	N/A
15-Feb-16	N/A	7.01	N/A	N/A
30-Mar-16	N/A	6.17	N/A	N/A
22-Apr-16	N/A	5.88	N/A	N/A
11-May-16	N/A	4.90	N/A	N/A
24-Jun-16	N/A	6.69	N/A	N/A
20-Jul-16	N/A	8.03	N/A	N/A
10-Aug-16	8.75	8.78	0.03	0.25 " product to 1/4 gallon total purged
28-Sep-16	N/A	8.46	N/A	N/A

Manual product abatement was not conducted in August, September, October 2012 due to bi-weekly EFR events

Product Recovered at EX-4

	Inches	Gallons
Present Quarter	0.25	0.25
Total	5.50	8.75

GROUNDWATER MONITORING REPORT
3rd Quarter, 2016

APPENDIX B. LABORATORY ANALYTICAL REPORTS

The Service Station
301 East Main Street
North Manchester, Indiana
IDEM Incident # 9701519
Facility ID # 16165

ENVision Laboratories, Inc.
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Ms. Alana Christlieb
SES Environmental
3807 Transportation Drive
Fort Wayne, IN 46818

August 22, 2016

ENVision Project Number: 2016-2280
Client Project Name: C&H #0000-9099

Dear Ms. Christlieb,

Please find the attached analytical report for the samples received August 11, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

The reference for the preservation technique utilized by ENVision Laboratories for Volatile Organics in soil may be found on Table A.1 (p. 42) of Method 5035A: Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples, July 2002, Draft Revision 1.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

PA DEP Lab Code: 68-04846 NELAP Cert:005

ENVision Laboratories, Inc.
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Indianapolis, IN 46239
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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-2
Envision Sample Number: 16-16072
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:09
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	

Dibromofluoromethane (surrogate)	102%
1,2-Dichloroethane-d4 (surrogate)	100%
Toluene-d8 (surrogate)	92%
4-bromofluorobenzene (surrogate)	86%
Analysis Date/Time:	8-15-16/15:44
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-3
Envision Sample Number: 16-16073
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 12:27
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	115%		
1,2-Dichloroethane-d4 (surrogate)	105%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	79%		
Analysis Date/Time:	8-15-16/16:13		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-5
Envision Sample Number: 16-16074
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 12:45
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	**7.11**	5	
Dibromofluoromethane (surrogate)	99%		
1,2-Dichloroethane-d4 (surrogate)	100%		
Toluene-d8 (surrogate)	96%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	8-15-16/17:42		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-8
Envision Sample Number: 16-16075
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:08
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	

Dibromofluoromethane (surrogate)	103%
1,2-Dichloroethane-d4 (surrogate)	108%
Toluene-d8 (surrogate)	91%
4-bromofluorobenzene (surrogate)	81%
Analysis Date/Time:	8-15-16/18:12
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-9A
Envision Sample Number: 16-16076
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 12:35
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	**42.2**	5	
Dibromofluoromethane (surrogate)	95%		
1,2-Dichloroethane-d4 (surrogate)	108%		
Toluene-d8 (surrogate)	91%		
4-bromofluorobenzene (surrogate)	80%		
Analysis Date/Time:	8-15-16/18:16		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-11
Envision Sample Number: 16-16077
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 11:37
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	

Dibromofluoromethane (surrogate)	101%
1,2-Dichloroethane-d4 (surrogate)	110%
Toluene-d8 (surrogate)	96%
4-bromofluorobenzene (surrogate)	82%
Analysis Date/Time:	8-15-16/18:46
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(2)

Client Sample ID: MW-12
Envision Sample Number: 16-16078
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 12:43
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	101%		
1,2-Dichloroethane-d4 (surrogate)	98%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	8-16-16/13:19		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-13
Envision Sample Number: 16-16079
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 12:30
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	**16.5**	5	

Dibromofluoromethane (surrogate)	110%
1,2-Dichloroethane-d4 (surrogate)	102%
Toluene-d8 (surrogate)	99%
4-bromofluorobenzene (surrogate)	80%
Analysis Date/Time:	8-15-16/19:45
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-15
Envision Sample Number: 16-16080
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:47
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**16,300**	2500	4
Toluene	**34,400**	2500	4
Ethylbenzene	**4,050**	250	2
Xylene, M&P	**13,900**	250	2
Xylene, 0rtho	**6,030**	250	2
Xylenes, Total	**19,900**	500	2
Methyl-tert-butyl-ether	**1,160**	250	2

Dibromofluoromethane (surrogate)	101%
1,2-Dichloroethane-d4 (surrogate)	90%
Toluene-d8 (surrogate)	100%
4-bromofluorobenzene (surrogate)	103%
Analysis Date/Time:	8-15-16/14:45
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-16
Envision Sample Number: 16-16081
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 12:55
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**588**	50	1
Toluene	**1,640**	50	1
Ethylbenzene	**1,570**	50	1
Xylene, M&P	**5,080**	250	2
Xylene, 0rtho	**1,640**	50	1
Xylenes, Total	**6,720**	300	2
Methyl-tert-butyl-ether	**158**	50	1

Dibromofluoromethane (surrogate)	101%
1,2-Dichloroethane-d4 (surrogate)	95%
Toluene-d8 (surrogate)	99%
4-bromofluorobenzene (surrogate)	93%
Analysis Date/Time:	8-15-16/16:43
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(2)

Client Sample ID: MW-17
Envision Sample Number: 16-16082
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:48
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**26,500**	2500	4
Toluene	**42,000**	2500	4
Ethylbenzene	**3,670**	250	2
Xylene, M&P	**12,100**	250	2
Xylene, 0rtho	**4,710**	250	2
Xylenes, Total	**16,800**	500	2
Methyl-tert-butyl-ether	**39,100**	2500	4

Dibromofluoromethane (surrogate)	103%
1,2-Dichloroethane-d4 (surrogate)	99%
Toluene-d8 (surrogate)	105%
4-bromofluorobenzene (surrogate)	100%
Analysis Date/Time:	8-16-16/14:17
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(1)

Client Sample ID: MW-18
Envision Sample Number: 16-16083
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:38
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	**1,170**	50	1
Dibromofluoromethane (surrogate)	112%		
1,2-Dichloroethane-d4 (surrogate)	109%		
Toluene-d8 (surrogate)	93%		
4-bromofluorobenzene (surrogate)	71%		
Analysis Date/Time:	8-15-16/20:15		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(2)

Client Sample ID: MW-19
Envision Sample Number: 16-16084
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:34
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**2,110**	500	3
Toluene	**78.2**	5	
Ethylbenzene	**1,300**	50	1
Xylene, M&P	**2,140**	50	1
Xylene, 0rtho	**17.4**	5	
Xylenes, Total	**2,160**	55	1
Methyl-tert-butyl-ether	**1,320**	50	1

Dibromofluoromethane (surrogate)	103%
1,2-Dichloroethane-d4 (surrogate)	89%
Toluene-d8 (surrogate)	112%
4-bromofluorobenzene (surrogate)	85%
Analysis Date/Time:	8-16-16/16:26
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(2)

Client Sample ID: MW-20
Envision Sample Number: 16-16085
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 12:58
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**9.24**	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	**6.47**	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	**18.9**	5	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	95%		
Toluene-d8 (surrogate)	95%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	8-16-16/15:27		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(2)

Client Sample ID: MW-21
Envision Sample Number: 16-16086
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:12
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**526**	50	1
Toluene	**31.1**	5	
Ethylbenzene	**168**	5	
Xylene, M&P	**64.3**	5	
Xylene, 0rtho	**5.01**	5	
Xylenes, Total	**69.3**	10	
Methyl-tert-butyl-ether	**157**	50	1

Dibromofluoromethane (surrogate)	98%
1,2-Dichloroethane-d4 (surrogate)	89%
Toluene-d8 (surrogate)	104%
4-bromofluorobenzene (surrogate)	99%
Analysis Date/Time:	8-16-16/15:57
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(2)

Client Sample ID: MW-22
Envision Sample Number: 16-16087
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:13
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**2,020**	50	1
Toluene	**48.6**	5	
Ethylbenzene	**467**	50	1
Xylene, M&P	**1,410**	50	1
Xylene, 0rtho	**8.60**	5	
Xylenes, Total	**1,420**	55	1
Methyl-tert-butyl-ether	**7,080**	250	2

Dibromofluoromethane (surrogate)	100%
1,2-Dichloroethane-d4 (surrogate)	85%
Toluene-d8 (surrogate)	109%
4-bromofluorobenzene (surrogate)	89%
Analysis Date/Time:	8-16-16/17:25
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(2)

Client Sample ID: MW-23
Envision Sample Number: 16-16088
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:31
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	91%		
1,2-Dichloroethane-d4 (surrogate)	90%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	82%		
Analysis Date/Time:	8-16-16/17:55		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-24
Envision Sample Number: 16-16089
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:33
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**66.1**	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	**40.7**	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	**40.7**	10	
Methyl-tert-butyl-ether	**7,390**	250	2

Dibromofluoromethane (surrogate)	97%
1,2-Dichloroethane-d4 (surrogate)	94%
Toluene-d8 (surrogate)	102%
4-bromofluorobenzene (surrogate)	86%
Analysis Date/Time:	8-16-16/18:25
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-25
Envision Sample Number: 16-16090
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:22
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**103**	5	
Toluene	**5.17**	5	
Ethylbenzene	< 5	5	
Xylene, M&P	**18.0**	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	**18.0**	10	
Methyl-tert-butyl-ether	**1,250**	50	1

Dibromofluoromethane (surrogate)	109%
1,2-Dichloroethane-d4 (surrogate)	106%
Toluene-d8 (surrogate)	98%
4-bromofluorobenzene (surrogate)	86%
Analysis Date/Time:	8-16-16/20:53
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-26
Envision Sample Number: 16-16091
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:49
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	76%		
Analysis Date/Time:	8-16-16/19:24		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-27
Envision Sample Number: 16-16092
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:47
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	**204**	50	1

Dibromofluoromethane (surrogate)	100%
1,2-Dichloroethane-d4 (surrogate)	94%
Toluene-d8 (surrogate)	96%
4-bromofluorobenzene (surrogate)	75%
Analysis Date/Time:	8-16-16/19:54
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-28
Envision Sample Number: 16-16093
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:29
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	

Dibromofluoromethane (surrogate)	110%
1,2-Dichloroethane-d4 (surrogate)	92%
Toluene-d8 (surrogate)	98%
4-bromofluorobenzene (surrogate)	72%
Analysis Date/Time:	8-16-16/20:23
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-29
Envision Sample Number: 16-16094
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:30
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	

Dibromofluoromethane (surrogate)	110%
1,2-Dichloroethane-d4 (surrogate)	94%
Toluene-d8 (surrogate)	95%
4-bromofluorobenzene (surrogate)	76%
Analysis Date/Time:	8-16-16/21:52
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-30
Envision Sample Number: 16-16095
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:00
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	

Dibromofluoromethane (surrogate)	115%
1,2-Dichloroethane-d4 (surrogate)	99%
Toluene-d8 (surrogate)	98%
4-bromofluorobenzene (surrogate)	79%
Analysis Date/Time:	8-16-16/22:21
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW

Client Sample ID: MW-31
Envision Sample Number: 16-16096
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:02
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	

Dibromofluoromethane (surrogate)	121%
1,2-Dichloroethane-d4 (surrogate)	103%
Toluene-d8 (surrogate)	99%
4-bromofluorobenzene (surrogate)	76%
Analysis Date/Time:	8-16-16/22:51
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(3)

Client Sample ID: MW-32
Envision Sample Number: 16-16097
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 13:21
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	**29.4**	5	

Dibromofluoromethane (surrogate)	113%
1,2-Dichloroethane-d4 (surrogate)	105%
Toluene-d8 (surrogate)	96%
4-bromofluorobenzene (surrogate)	82%
Analysis Date/Time:	8-17-16/01:49
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(3)

Client Sample ID: MW-35
Envision Sample Number: 16-16098
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 15:00
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**2,160**	500	3
Toluene	**73.1**	5	
Ethylbenzene	**1,390**	50	1
Xylene, M&P	**2,530**	50	1
Xylene, 0rtho	**19.4**	5	
Xylenes, Total	**2,550**	55	1
Methyl-tert-butyl-ether	**1,640**	50	1

Dibromofluoromethane (surrogate)	112%
1,2-Dichloroethane-d4 (surrogate)	85%
Toluene-d8 (surrogate)	1147%
4-bromofluorobenzene (surrogate)	92%
Analysis Date/Time:	8-17-16/02:18
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(3)

Client Sample ID: MW-36
Envision Sample Number: 16-16099
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 14:59
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	**1,630**	50	1
Toluene	**41.5**	5	
Ethylbenzene	**366**	50	1
Xylene, M&P	**1,400**	50	1
Xylene, 0rtho	**7.58**	5	
Xylenes, Total	**1,410**	55	1
Methyl-tert-butyl-ether	**7,540**	250	2

Dibromofluoromethane (surrogate)	105%
1,2-Dichloroethane-d4 (surrogate)	85%
Toluene-d8 (surrogate)	109%
4-bromofluorobenzene (surrogate)	85%
Analysis Date/Time:	8-17-16/03:17
Analyst Initials	tjg

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(3)

Client Sample ID: 103
Envision Sample Number: 16-16100
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 10:15
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	92%		
1,2-Dichloroethane-d4 (surrogate)	96%		
Toluene-d8 (surrogate)	100%		
4-bromofluorobenzene (surrogate)	87%		
Analysis Date/Time:	8-17-16/03:47		
Analyst Initials	tjg		

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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2280

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 081516VW(3)

Client Sample ID: TRIP BLANK
Envision Sample Number: 16-16101
Sample Matrix: water

Sample Collection Date/Time: 8/10/16 8:45
Sample Received Date/Time: 8/11/16 12:15

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	95%		
1,2-Dichloroethane-d4 (surrogate)	98%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	80%		
Analysis Date/Time:	8-17-16/04:16		
Analyst Initials	tjg		

ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

EPA 8260 Quality Control Data

ENVision Batch Number: 081516VW(1)

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Methyl-tert-butyl-ether	< 5	5	
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	96%		
1,2-Dichloroethane-d4 (surrogate)	103%		
Toluene-d8 (surrogate)	97%		
4-bromofluorobenzene (surrogate)	96%		
Analysis Date/Time:	8-15-16/10:17		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Methyl-tert-butyl-ether	42.8	50	41.2	86%	82%	3.8	
Benzene	50.4	50	49.6	101%	99%	1.6	
Toluene	48.2	50	49.7	96%	99%	3.1	
Ethylbenzene	49.8	50	51	100%	102%	2.4	
Xylene, M&P	102	100	103	102%	103%	1.0	
Xylene, 0rtho	51.5	50	51.2	103%	102%	0.6	
Dibromofluoromethane (surrogate)	98%		95%				
1,2-Dichloroethane-d4 (surrogate)	99%		107%				
Toluene-d8 (surrogate)	97%		100%				
4-bromofluorobenzene (surrogate)	101%		101%				
Analysis Date/Time:	8-15-16/09:18		8-15-16/09:48				
Analyst Initials	tjg		tjg				

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EPA 8260 Quality Control Data

ENVision Batch Number: 081516VW(2)

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Methyl-tert-butyl-ether	< 5	5	
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	99%		
1,2-Dichloroethane-d4 (surrogate)	97%		
Toluene-d8 (surrogate)	101%		
4-bromofluorobenzene (surrogate)	88%		
Analysis Date/Time:	8-16-16/12:49		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Methyl-tert-butyl-ether	48.8	50	46.7	98%	93%	4.4	
Benzene	48.3	50	46.2	97%	92%	4.4	
Toluene	53.3	50	50.2	107%	100%	6.0	
Ethylbenzene	51.7	50	49.9	103%	100%	3.5	
Xylene, M&P	108	100	102	108%	102%	5.7	
Xylene, 0rtho	51.3	50	49.3	103%	99%	4.0	
Dibromofluoromethane (surrogate)	98%		96%				
1,2-Dichloroethane-d4 (surrogate)	106%		99%				
Toluene-d8 (surrogate)	100%		104%				
4-bromofluorobenzene (surrogate)	99%		103%				
Analysis Date/Time:	8-16-16/11:50		8-16-16/12:19				
Analyst Initials	tjg		tjg				

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EPA 8260 Quality Control Data

ENVision Batch Number: 081516VW(3)

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Methyl-tert-butyl-ether	< 5	5	
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	105%		
1,2-Dichloroethane-d4 (surrogate)	98%		
Toluene-d8 (surrogate)	98%		
4-bromofluorobenzene (surrogate)	93%		
Analysis Date/Time:	8-17-16/00:49		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Methyl-tert-butyl-ether	53.4	50	49.5	107%	99%	7.6	
Benzene	49.4	50	51.9	99%	104%	4.9	
Toluene	52.4	50	53	105%	106%	1.1	
Ethylbenzene	52.3	50	54.5	105%	109%	4.1	
Xylene, M&P	108	100	112	108%	112%	3.6	
Xylene, 0rtho	49.2	50	52.6	98%	105%	6.7	
Dibromofluoromethane (surrogate)	108%		99%				
1,2-Dichloroethane-d4 (surrogate)	103%		92%				
Toluene-d8 (surrogate)	106%		103%				
4-bromofluorobenzene (surrogate)	102%		97%				
Analysis Date/Time:	8-16-16/23:50		8-17-16/00:20				
Analyst Initials	tjg		tjg				

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Flag Number	Comments
N	Analyte is not included in our NELAC accreditation.
1	Reported value is from a 10x dilution. DAE 8-22-16
2	Reported value is from a 50x dilution. DAE 8-22-16
3	Reported value is from a 100x dilution. DAE 8-22-16
4	Reported value is from a 500x dilution. DAE 8-22-16

ENVision Proj#: 2016-2280 Page 1 of 3

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address: Same
Report Address: 3807 Transportation Dr, Ft. Wayne, IN 46818	Project Name: C+H #0000-9099
Report To: Alana Christlieb	Lab Contact: Cheryl Crum
Phone: 260-497-7645	Sampled by: SF/BB
Fax: 260-497-7646	P.O. Number: 580231
Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Sample Integrity:

Cooler Temp: 3 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	BTEX/MTBE							HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
MW-2	8-10-16	1:09	G	W	X							2						16-16072
MW-3		12:27																16-16073
MW-5		12:45																16-16074
MW-8		1:08																16-16075
MW-9a		12:35																16-16076
MW-11		11:37																16-16077
MW-12		12:43																16-16078
MW-13		12:30																16-16079
MW-15		2:47																16-16080
MW-16		12:55																16-16081
MW-17		2:48																16-16082
MW-18		2:38																16-16083

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[illegible signature]	8-11-16	12:15	[illegible signature]	8/11/16	12:15

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address: Same
Report Address: 3807 Transportation Dr. Ft. Wayne, IN 46818	Project Name: CVH #0000-8099
Report To: A.C.	Lab Contact: C.C.
Phone: 260-497-7645	Sampled by: SF/BB
Fax: 260-497-7646	P.O. Number: 580231
Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

BTEX/MTBE

Sample Integrity:

Cooler Temp: 3 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	BTEX/MTBE							HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
MW-19	8-10-16	2:34	G	W	X							2						16-16084
MW-20		12:58																16-16085
MW-21		1:12																16-16086
MW-22		1:13																16-16087
MW-23		1:31																16-16088
MW-24		1:33																16-16089
MW-25		1:22																16-16090
MW-26		1:49																16-16091
MW-27		1:47																16-16092
MW-28		2:29																16-16093
MW-29		2:30																16-16094
MW-30		2:00																16-16095

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Mark Farrell	8-11-16	12:15	Blaine Gaff	8/11/16	12:15

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address: Same
Report Address: 3807 Transportation Dr. Ft. Wayne, IN 46818	Project Name: CXH #0000-9099
Report To: Alana Christlieb	Lab Contact: C.C.
Phone: 260-497-7645	Sampled by: SF/BB
Fax: 260-497-7646	P.O. Number: 580231
Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Sample Integrity:
Cooler Temp: 3 °C
(Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	BTEX/MTBE							HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
MW-31	8-10-16	2:02	G	W	X							2						16-16096
MW-32		1:21																16-16097
MW-35		3:00																16-16098
MW-36		2:59																16-16099
103		10:15																16-16100
Trip Blank		8:45																16-16101

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Sarah Farrell	8-11-16	12:13	Blaine Grider	8/11/16	12:15

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Ms. Alana Christlieb
SES Environmental
3807 Transportation Drive
Fort Wayne, IN 46818

October 10, 2016

ENVision Project Number: 2016-2823
Client Project Name: C&H #0000-9099

Dear Ms. Christlieb,

Please find the attached analytical report for the samples received September 29, 2016. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

Cheryl A. Crum

Cheryl A. Crum

Director of Project Management
ENVision Laboratories, Inc.

PA DEP Lab Code: 68-04846 NELAP Cert:006

ENVision Laboratories, Inc.
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Indianapolis, IN 46239
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Analytical Report

Client Name: SES

Project ID: C & H #0000-9099

Client Project Manager: ALANA CHRISTLIEB

ENVision Project Number: 2016-2823

Analytical Method: EPA 8260
Prep Method: EPA 5030B
Analytical Batch: 100516VW

Client Sample ID: 103
Envision Sample Number: 16-20425
Sample Matrix: water

Sample Collection Date/Time: 9/28/16 12:40
Sample Received Date/Time: 9/29/16 12:20

Compounds	Sample Results (ug/L)	Reporting Limit (ug/L)	Flags
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Methyl-tert-butyl-ether	< 5	5	
Dibromofluoromethane (surrogate)	98%		
1,2-Dichloroethane-d4 (surrogate)	84%		
Toluene-d8 (surrogate)	99%		
4-bromofluorobenzene (surrogate)	85%		
Analysis Date/Time:	10-5-16/21:51		
Analyst Initials	tjg		

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EPA 8260 Quality Control Data

ENVision Batch Number: 100516VW

Method Blank (MB):	MB Results (ug/L)	Rep Lim (ug/L)	Flag
Methyl-tert-butyl-ether	< 5	5	
Benzene	< 5	5	
Toluene	< 5	5	
Ethylbenzene	< 5	5	
Xylene, M&P	< 5	5	
Xylene, 0rtho	< 5	5	
Xylenes, Total	< 10	10	
Dibromofluoromethane (surrogate)	94%		
1,2-Dichloroethane-d4 (surrogate)	83%		
Toluene-d8 (surrogate)	106%		
4-bromofluorobenzene (surrogate)	89%		
Analysis Date/Time:	10-5-16/17:51		
Analyst Initials	tjg		

LCS/LCSD	LCS Results (ug/L)	LCS/LCSD Conc. (ug/L)	LCSD Result (ug/L)	LCS Rec.	LCSD Rec.	% D	Flag
Methyl-tert-butyl-ether	43.8	50	41	88%	82%	6.6	
Benzene	56.9	50	54.1	114%	108%	5.0	
Toluene	57	50	54.2	114%	108%	5.0	
Ethylbenzene	57.9	50	55.4	116%	111%	4.4	
Xylene, M&P	114	100	108	114%	108%	5.4	
Xylene, 0rtho	53	50	50.7	106%	101%	4.4	
Dibromofluoromethane (surrogate)	88%		92%				
1,2-Dichloroethane-d4 (surrogate)	89%		87%				
Toluene-d8 (surrogate)	105%		105%				
4-bromofluorobenzene (surrogate)	96%		95%				
Analysis Date/Time:	10-5-16/16:21		10-5-16/16:51				
Analyst Initials	tjg		tjg				

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Flag Number	Comments

ENVision Proj#: 2016-2823 Page 1 of 1

CHAIN OF CUSTODY RECORD

ENVision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: SES	Invoice Address: Same
Report Address: 3607 Transportation Dr. Ft. Wayne, IN 46818	Project Name: C&H #0000-9089
Report To: Alana Christlieb	Lab Contact: Cheryl Crum
Phone: 260-497-7645	Sampled by: SE
Fax: 260-497-7646	P.O. Number: 580248
Desired TAT: (Please Circle One) 1-2 days 3-6 days Std (7 bus. days)	QA/QC Required: (circle if applicable) Level III Level IV

REQUESTED PARAMETERS

Sample Integrity:

Cooler Temp: 4 °C (Circle)
Samples on Ice? Yes No
Samples Intact? Yes No
Custody Seal: Yes No
ENVision provided bottles: Yes No
VOC vials free of head-space: Yes No N/A
pH checked? Yes No N/A
Method 5035 collection used? Yes No
5035 samples received within 48 hr of Collection? Yes No

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	BTEX/MTBE							HCl	HNO_3	H_2SO_4	NaOH	Other	None	ENVision Sample ID
103	9-28-16	12:40	G	W	X							2						16-20425

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9-29-16	12:20	[signature]	9/29/16	12:20

GROUNDWATER MONITORING REPORT
3rd Quarter, 2016

APPENDIX C. CORRECTIVE ACTION PROGRESS REPORT

The Service Station
301 East Main Street
North Manchester, Indiana
IDEM Incident # 9701519
Facility ID # 16165

CORRECTIVE ACTION PROGRESS REPORT

FACILITY NAME: The Service Station **FACILITY I.D. NO.:** 16165
IDEM PROJECT MANAGER: Mr. Jeff Turley **INCIDENT NO.:** 9701519

CONSULTANT COMPANY: SES Environmental
CONSULTANT NAME AND SIGNATURE: Glen Howard, CHMM
ADDRESS: 3807 Transportation Drive
CITY: Fort Wayne **STATE:** IN **ZIP:** 46818
TELEPHONE NO.: (260) 497-7645 **Ext.:** 208

SUBMITTAL DEADLINES (FOR OFFICE USE ONLY)

CURRENT REPORTING TYPE: Ξ **QUARTER** **FINAL**

TODAY'S DATE:

REPORTING PERIOD	DUE DATE	REPORTING PERIOD	DUE DATE
☐ January 1st-March 31st	April 30th	☐ April 1-June 30th	July 31st
Ξ July 1-September 30th	October 31st	☐ October 1-December 31st	January 31st

SITE INFORMATION

CONTAMINANT(S):

Ξ **GASOLINE** **VIRGIN HYDROCARBON OIL** **WASTE OIL**
-HIGH-END LIQUID HYDROCARBON FUEL (KEROSENE, JET FUEL, DIESEL, ETC.)
HAZARDOUS: CAS NO. _____
Ξ**MTBE**

SELECTED CORRECTIVE ACTION FOR: **SOIL** Ξ **GROUNDWATER**

VAPOR EXTRACTION **LAND FARM** **PUMP AND TREAT**
AIR SPARGING **BIOREMEDIATION** **STABILITY MONITORING**
MONITORED NATURAL ATTENUATION
OTHER:_____

VOLUME TREATED

	Current Quarter		Cumulative Annual Total	
Free Product		**gallons**		**gallons**
Groundwater		**gallons**		**gallons**
Soil		**cubic yards**		**cubic yards**
Soil to Landfill		**cubic yards**		**cubic yards**
Est. VOCs		**pounds**		**pounds**

CONTAMINATION CONCENTRATION MONITORING

Please fill in the lettered rows with the appropriate petroleum or hazardous constituent name(s). Fill in the "sample I.D." column with abbreviated monitoring well numbers (such as "MW-1") and soil boring numbers (such as "SB-1"). Please list the three highest contaminant levels only. Additional sampling information may be requested.

SOIL:

Sample I.D.	Units	A	B	C	D

GROUNDWATER:

Sample I.D.	Units	A Benzene	B Toluene	C Ethylbenzene	D Xylenes	E MTBE
MW-17	µg/L	26,500	42,000	3,670	16,800	39,100
MW-16	µg/L	588	1,640	1,570	6,720	158
MW-15	µg/L	16,300	34,400	4,050	19,900	1,160