

FACILITY NAME: Vennard Crossroads Convenience, Inc.

FACILITY ID #: 32-81802

REPORT/PLAN PREPARER: Mountain Research, LLC
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CORRECTIVE ACTION PROCESS REPORT/PLAN COVER SHEET

CHAPTER 245 STORAGE TANK ACT

- ☐ Site Characterization Report - Section 245.310(b)
- ☐ Site Characterization Report - Section 245.310(a)
- ☐ Site Characterization Report - Site-Specific Standard
- ☒ Site Characterization Report - Statewide Health or Background Standard
SUPPLEMENTAL
- ☐ Remedial Action Plan - Statewide Health or Background Standard
- ☐ Remedial Action Plan - Site Specific Standard
- ☐ Remedial Action Progress Report
- ☐ Remedial Action Completion Report - Statewide Health or Background Standard
- ☐ Remedial Action Completion Report - Site-Specific Standard

(Check all that apply to the enclosed submission)

SUPPLEMENTAL SITE CHARACTERIZATION REPORT

**VENNARD CROSSROADS CONVENIENCE, INC.
4985 LUCERNE ROAD
WHITE TOWNSHIP, INDIANA COUNTY, PENNSYLVANIA
PADEP FACILITY ID #32-81802
USTIF CLAIM #2015-0116(L)**

PROFESSIONAL CERTIFICATION:

Professional Geologist:

Print or Type Name:

Michael E. Kern

Signature:

Date:





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VENNARD'S\SSSCR REPORT\SCR REPORT APX - 0918
Project No. 4644.15.01

SUPPLEMENTAL SITE CHARACTERIZATION REPORT

**VENNARD CROSSROADS CONVENIENCE, INC.
4985 LUCERNE ROAD
WHITE TOWNSHIP, INDIANA COUNTY, PENNSYLVANIA
PADEP FACILITY ID #32-81802
USTIF CLAIM #2015-0116(L)**

Prepared for

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Prepared by

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SEPTEMBER 2018

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Project No. 4644.15.01

September 20, 2018

Mr. Kevin Halloran
Pennsylvania Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, Pennsylvania 15222-4745

RE: **Supplemental Site Characterization Report
Vennard Crossroads Convenience, Inc.
4985 Lucerne Road
White Township, Indiana County, Pennsylvania
PADEP Facility ID #32-81802
USTIF Claim #2015-0116(I)**

Dear Mr. Halloran:

Please find enclosed an original of the Supplemental Site Characterization Report prepared by Mountain Research, LLC for the above-referenced site.

Should you have any questions regarding the report or require any additional documentation in order to complete the report review and approval process, please contact the undersigned at (814) 502-6406 or via e-mail at mkern@mountainresearch.com.

Sincerely,
MOUNTAIN RESEARCH, LLC

Michael E. Kern, P.G.
Project Manager III

MEK:ll
Enclosure



TABLE OF CONTENTS

	PAGE #
1.0 Executive Summary	1
2.0 Introduction	2
2.1 Constituents of Concern	3
2.2 Media of Concern	3
2.3 Remediation Standard	3
3.0 Site Description	3
3.1 Historical and Current Operations	4
3.2 Site Features	4
3.2.1 Utilities	4
4.0 Interim Remedial Actions	5
5.0 Source of Petroleum Impacts and Tank Testing	5
5.1 Characteristics of Regulated Substance	6
6.0 Water Supplies	6
6.1 Restore or Replacement of Affected Supplies	6
6.2 Potentially Affected Supplies	6
6.3 Affected Water Supplies	6
7.0 Methods and Equipment	6
7.1 Characterization Plans	7
7.2 Geophysics	7

TABLE OF CONTENTS
(Continued)

	PAGE #
7.3 Soil Borings and Soil Sampling	7
7.3.1 Geotechnical Soil Sampling	8
7.4 Monitoring Wells	8
7.5 Aquifer Testing	9
7.6 Site Survey	9
7.7 Characterization of Waste	9
8.0 Site Geology	9
8.1 Soil	10
8.2 Bedrock Surface Elevation Mapping	10
8.3 Hydrogeology	10
8.3.1 Overburden Hydrogeology	11
8.3.1.1 Overburden Aquifer Test Results	11
8.3.2 Bedrock Hydrogeology	12
8.4 Vertical Groundwater Gradient	12
9.0 Analytical Results	13
9.1 Soil Sampling Analytical Results	13
9.1.1 Geotech Results	14
9.2 Groundwater	14
9.3 LNAPL Observations	14

TABLE OF CONTENTS
(Continued)

	PAGE #
10.0 Site Conceptual Model/Fate and Transport Analysis	14
10.1 Source Area and COCs	15
10.2 Transport Mechanisms	15
10.3 Receptors and Receptor Pathways	16
10.4 Building Construction	16
10.5 Preferential Pathways	17
10.5.1 Utility Preferential Pathways	17
10.5.2 Fill Preferential Pathway	17
10.5.3 Bedrock Interface Preferential Pathways	18
10.6 Aquifer System	18
10.7 Conceptual COC Migration Groundwater Flow	19
10.7.1 Overburden Impacted Groundwater Fate and Transport	20
10.7.2 Bedrock Impacted Groundwater Fate and Transport	21
11.0 Vapor Intrusion into Buildings	21
11.1 Screening for Potential Vapor Intrusion Sources	21
11.1.1 Building Receptors	22
11.1.2 Underground Utilities	22
11.1.3 Soil Like Material	22
11.2 Additional Assessment Options	23
11.3 Soil Vapor Point Installation	24

TABLE OF CONTENTS
(Continued)

	PAGE #
11.4 Soil Vapor Point Integrity Testing	25
11.5 Soil Vapor Sampling and Analytical Results	26
11.6 VIB Conclusions	26
12.0 Ecological Receptor Evaluation	27
13.0 Characterization Objectives	27
13.1 Characterization Conclusions	28
14.0 Remedial Action Options	29
14.1 Remedial Action Option	32
15.0 Schedule	32
References	33

TABLE OF CONTENTS (Continued)

APPENDICES:

Appendix A	Characteristics of Constituents of Concern
Appendix B	Disposal Manifests
Appendix C	White Township Ordinance
Appendix D	PaGWIS Report and EDR Report
Appendix E	Field Methods
Appendix F	Geophysical Report
Appendix G	Boring Lithologic Logs
Appendix H	Slug Test Analyses
Appendix I	Historical Mining Map
Appendix J	Laboratory Data Sheets – Soil
Appendix K	Laboratory Data Sheets – Geotechnical
Appendix L	Laboratory Data Sheets – Groundwater
Appendix M	Isoconcentration Maps
Appendix N	Laboratory Data Sheets – Soil Vapor
Appendix O	PNDI Receipt and Wetlands Map

TABLE OF CONTENTS
(Continued)

FIGURES:

Figure 1	Site Location Map
Figure 2	Aerial Expanded Map
Figure 3	Site Map
Figure 4	Underground Utility Map
Figure 5	Soil Boring Location and Soil Impact Map
Figure 6	Geologic Map
Figure 7	Cross Section Location Map
Figure 8	Cross Section A-A'
Figure 9	Cross Section B-B'
Figure 10	Bedrock Surface Contour Elevation Map
Figure 11	Overburden Groundwater Elevation Contour Map – March 6, 2018
Figure 12	Overburden Groundwater Elevation Contour Map – May 24, 2018
Figure 13	Bedrock Groundwater Elevation Contour Map – March 6, 2018
Figure 14	Bedrock Groundwater Elevation Contour Map – May 24, 2018
Figure 15	Preferential Pathway Groundwater Flow

TABLE OF CONTENTS
(Continued)

TABLES:

Table 1	Well Construction Summary
Table 2	Groundwater Elevation Summary
Table 3	Soil Sample Analytical Results
Table 4	Groundwater Analytical Summary
Table 5	Soil Vapor Analytical Summary



SUPPLEMENTAL SITE CHARACTERIZATION REPORT

**Vennard Crossroads Convenience, Inc.
4985 Lucerne Road
White Township, Indiana County, Pennsylvania
PADEP Facility ID #32-81802
USTIF Claim #2015-0116(I)**

1.0 EXECUTIVE SUMMARY

- Physical and olfactory evidence of a petroleum release identified during Phase 2 activities conducted in September 2015 prompted Site Characterization activities.
- An overburden aquifer and shallow bedrock aquifer are identified at the site. Groundwater gradients within the aquifers are in western directions.
- Analytical results for groundwater samples collected from overburden and bedrock monitoring wells identified petroleum constituent of concern (COC) concentrations above their respective Pennsylvania Department of Environmental Protection (PADEP) Non-Residential Used Aquifer (NRUA) Medium Specific Concentration (MSC).
- Fate and transport analysis interpretation indicates dissolved phase migration primarily follows preferential pathways in a northern direction within both the overburden and bedrock aquifers.
- Soils impacted with petroleum above the NRUA soil to groundwater MSC are identified in three separate areas near UST components.
- Vapor intrusion into buildings was evaluated through near source soil vapor samples at each site building. The analytical results indicate acceptable near source soil vapor screening concentrations. However, remediation is recommended to further address potential vapor intrusion into the Vennard building.
- The proposed remedial standard for the property is the NRUA statewide health standard (SHS) for soil and groundwater.
- Vacuum enhanced groundwater extraction and limited soil excavation/disposal are the remedial technologies of choice, feasibility studies are completed and show favorable results for the technology.



2.0 INTRODUCTION

A petroleum release was identified at the Vennard's Crossroads Convenience Inc. Property (hereafter referred to as Vennard's or subject property) during a Phase II Environmental Site Assessment conducted on September 3, 2015. Based on the presence of petroleum impacted soil and groundwater, a PADEP Site Characterization/Site Characterization Report (SCR) was warranted.

Mountain Research, LLC (Mountain Research) was retained by Vennard's in September 2015 to complete site characterization activities for the site located in White Township, Indiana County, Pennsylvania.

Site characterization activities were conducted in accordance with Title 25, Chapter 245, Administration of Storage Tanks and Spill Prevention Program, Subchapter D, Section 309. An initial characterization report was submitted in accordance with Section 310(c), SCR in November 2016. The SCR report outlined the need for additional characterization to fully define the dissolved phase impacts to the site. PADEP approved the November 2016 SCR in February 2017.

This Supplemental SCR (SSCR) is presented to complete the characterization of the site. The intent of this report is to be a stand-alone document which will include much of the relevant original information presented in the November 2016 SCR, in addition to newer characterization data and interpretations.

The following site characterization objectives were developed by Mountain Research to meet the regulations mentioned above:

- Identify the extent of impacted groundwater.
- Identify the extent of impacted soil.
- Describe the study area geology, hydrogeology, aquifer characteristics, and physical parameters such that a remediation standard and strategy for the site can be selected.
- Develop a site conceptual model from which the fate and transport of constituents can be evaluated by modeling or analysis.
- Evaluate potential VIB risks.

The activities conducted and used for characterization of the site include the following:

- Geophysical Investigation
- Advancement of soil borings
- Collection and analysis of soil samples from soil borings
- Installation of overburden and shallow bedrock monitoring wells
- Collection and analysis of groundwater samples from monitoring wells
- Measurement of overburden and shallow bedrock groundwater elevations and deriving direction of groundwater flow and gradient from these measurements
- Installation and sampling of soil vapor points near building receptors
- Aquifer testing

2.0 **INTRODUCTION (continued)**

- Development of conceptual site model
- Fate and transport analysis
- Identification of potential preferential pathways for groundwater and/or vapor migration
- Vapor Intrusion into Buildings (VIB) risk evaluation and sampling of soil vapor
- Professional site survey

2.1 **Constituents of Concern**

Groundwater and soil samples have been analyzed for the following diesel and unleaded gasoline petroleum parameters: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene. Based on analytical results, the following parameters have been identified at detectable levels in the listed media and are therefore identified as the constituents of concern (COCs):

Groundwater: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene.

Soil: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, cumene, and naphthalene.

The characteristics of the aforementioned constituents are summarized in **Appendix A**.

2.2 **Media of Concern**

Soil and groundwater are identified to contain detectable concentrations of COCs and are therefore considered media of concern at the site.

2.3 **Remediation Standard**

The remediation standard goal for the property is the PADEP NRUA SHS for soil and groundwater.

3.0 **SITE DESCRIPTION**

The source property consists of an approximate 0.63 acre rectangular plot of land located at physical address 4985 Lucerne Road within White Township, Indiana County, Pennsylvania. The source property is owned by Mr. and Mrs. Vennard and is operated as a convenience store with retail petroleum sales. The source property is surrounded by residential and commercial properties as follows:

Lucerne Road to the south, beyond which is a hair salon. A vacant grass lot to the west, beyond which are residential apartments/townhouses. An Engineering business to the north, beyond which is wooded land. State Route 954 to the east, beyond which is a residential dwelling. An unnamed tributary is located approximately 290 feet northwest of the release area.

3.0 SITE DESCRIPTION (continued)

The impacted area consists of two parcels, including the source property and the northern adjacent commercial property owned by Walnut Development Group, LLC (WDG) and leased by Young Engineering. The impacted areas within these two impacted properties will herein be referenced as the "Site".

The Site is located in the central portion of the USGS 7.5 Minute Series Indiana, Pennsylvania Topographic Quadrangle at an approximate Latitude 40°, 34', 33.21" North and Longitude 79°, 07', 59.63" West. The Site has an approximate elevation of 1,285 feet above mean sea level. Refer to **Figure 1** for a site location map, **Figure 2** for an aerial site map, and **Figure 3** for a site map.

3.1 Historic and Current Operations

Prior to its development, the subject property was undeveloped land. The property was acquired by current deed holders Mr. Richard R. Vennard and Ms. Nancy L. Vennard on August 16, 1989. The property is believed to have first been developed in the mid to late 1980's or early 1990 with the one-story building with full below ground basement and underground storage tank (UST) and dispenser system currently on the property. The subject property is currently used as a convenience store with gasoline and diesel sales.

3.2 Site Features

The subject property consists of a one-story building having a buried basement and upper floor retail space. The petroleum system consists of a canopy housing retail dispensers and a UST system. The UST system is comprised of a 12,000-gallon compartmentalized UST, product delivery lines, and three (3) product dispensers located approximately 50 feet southwest of the UST. The compartmentalized UST has three (3) compartments for storage of diesel and two (2) qualities of gasoline. The compartments include one (1) 6,000-gallon compartment, one (1) 4,000-gallon compartment, and one (1) 2,000-gallon compartment. The ground surface on the subject property is mostly covered with pavement with minimal grass covered areas. Refer to **Figure 3** for locations of site features.

3.2.1 Utilities

Underground utilities located at the source property include natural gas, municipal water, electric, communication lines, storm sewer, and sanitary sewer. Natural gas and municipal water laterals run beneath the southern portion of the subject property and enter the southern side of the building at an approximate depth of 3 feet below surface. The storm sewer line runs along the western property boundary with a storm sewer grate located within the western portion of the property. This storm system is diverted to the south across Lucerne Road. All storm line depths range from 3 to 5 feet below surface. The sanitary sewer line runs along the northern property boundary and enters the northwest corner of the building at an approximate 8 foot depth. Underground electric and communication lines run along the western property boundary and enter the western side of the building at a depth of approximately 3 feet. In addition, underground electric lines run from the store to the dispenser island and to a sign located near the southeast corner of the property at a depth of approximately 2 feet.

3.2.1 Utilities (continued)

The underground utilities identified on the WDG property include sewer, natural gas, and water. The natural gas and water lines enter the property from the east and run to the northeast corner of the building. The sewer line exits the southwest portion of the building and flows west to where it meets the main sewer line located between the Vennard and WDG properties.

Refer to **Figure 4** for the approximate locations of underground utilities.

4.0 INTERIM REMEDIAL ACTIONS

Interim remedial action conducted at the site include the vacuum extraction of impacted water and product from the tank field sump, MW-2 and sheen from an abandoned sump near the northeast corner of Vennard's building. These vacuum extraction events were conducted on May 17, 2017, June 22, 2017, and August 15, 2017. Each vacuum event yielded between 1790 gallons to 2000 gallons total extracted fluids primarily consisting of groundwater. The disposal manifests for the three vacuum events are presented as **Appendix B**.

5.0 SOURCE OF PETROLEUM IMPACTS AND TANK TESTING

One obvious source of the release identified during the investigation was a failed fitting on the diesel dispenser located in the central portion of the subject property. Once the failure was identified (in September 2015), the owner (Mr. Vennard) repaired the fitting and restored the integrity of the dispenser. The release is believed to have been chronic in nature. The release date and the volume of released product is unknown.

An attempt was made to evaluate the integrity of the entire UST and distribution system. Tank testing was conducted by Valley Tank Testing on July 7, 2017. The results of the test were reported as "unable to test regular and premium tanks. Drop tubes are stuck". However, Tank Interstitial Test is reported with a result of "Pass". The tank testing is interpreted to indicate that the tank test for the combined "suction type" tank and lines could not be completed, however the tank interstitial test may indicate that the tank itself is not compromised. Further testing to evaluate the distribution or vent lines was not conducted.

Non-Aqueous Phase Liquid (LNAPL) is identified in a UST field monitoring point identified as a former sump, within MW-2, and a limited amount in an abandoned sump near the northeast corner of the Vennard store. It is not determined if the source of the LNAPL is the dispenser failure or other source such as tank overfills or line leaks. Based on the fact that product thickness diminished over time since interim remedial product removal was conducted, the likelihood of a continuous line leak is minimal.



5.1 Characteristics of Regulated Substance

Based on the types of product within the tanks and the known release (diesel dispenser), it is interpreted that the regulated substance released at the site are diesel and unleaded gasoline. 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene have been identified at detectable concentrations in soil and/or groundwater. The characteristics of the aforementioned constituents are summarized in **Appendix A**.

6.0 WATER SUPPLIES

No potable wells are located on the subject property. Public water is provided to the subject property and surrounding properties by Central Indiana County Water Authority. Central Indiana County Water Authority obtains water from Yellow Creek Reservoir, located approximately two (2) miles east of the site. White Township has an ordinance in place that requires all properties within 150 feet of a public water supply line to be connected to the public water supply system. Refer to **Appendix C** for a copy of the ordinance.

The Pennsylvania Groundwater Information System (PaGWIS) and an Environmental Database Review Report (EDR) were reviewed to locate potential water supplies and did not identify any wells within ¼ mile of the subject property. Refer to **Appendix D** for a copy of the PaGWIS results and **Appendix D** for a copy of the EDR.

6.1 Restore or Replacement of Affected Supplies

Replacement and restoration of water supplies was not deemed necessary and was not performed.

6.2 Potentially Affected Supplies

Due to the distance between the site and the public water supplies, a petroleum release emanating from the site is unlikely to affect the public water supplies.

6.3 Affected Water Supplies

Due to the distance between the site and the public water supplies, the public water supplies are not likely to have been affected by the petroleum release at the site.

7.0 METHODS AND EQUIPMENT

In order to delineate the extent and magnitude of petroleum impacts to media at the site, Vennard's retained the services of Mountain Research in September 2015 to conduct a site characterization on the subject property. The following site characterization field methods and activities were conducted:

- Geophysical Investigation for underground utilities or other sources
- Advancement of soil borings
- Collection and analysis of soil samples from soil borings
- Installation of overburden and shallow bedrock monitoring wells
- Collection and analysis of groundwater samples from monitoring wells

7.0 **METHODS AND EQUIPMENT (continued)**

- Measurement of groundwater elevations and deriving direction of gradient from these measurements
- Aquifer testing
- Installation of soil vapor sampling points and soil vapor sampling
- Professional site survey

Refer to **Figure 3** for monitoring well and vapor point locations and **Figure 5** for soil boring locations. Field methods for drilling, well installation, and groundwater sample collection are described in **Appendix E**. Other data collection or sampling methods are described herein.

7.1 **Characterization Plans**

The *Health and Safety Plan* for the site characterization and *Quality Assurance / Quality Control Plan* are available to the PADEP upon request.

7.2 **Geophysics**

A geophysical survey was performed by THG Geophysics LTD. (THG) on June 1, 2016. Ground penetrating radar (GPR) was utilized for the geophysical survey. The entire property was surveyed to identify the possible presence and location of historic USTs and subsurface utilities. The geophysical survey identified several utility lines and the existing UST. No undocumented USTs were identified during the survey. Refer to **Appendix F** for a copy of the geophysical report.

7.3 **Soil Borings and Soil Sampling**

Between June and September 2016, a combined total of 28 soil samples were obtained from 17 soil borings advanced on the subject property. An additional two (2) soil samples were obtained for another soil boring in April 2018. Soil borings were advanced using direct push drilling methods to bedrock refusal with a Geoprobe® drill. Soil encountered within the borings was logged using the Unified Soil Classification System (USCS) and consisted of up to three (3) feet of fill material followed by intervals of sandy clay, silty clay, and sand. Competent bedrock was encountered between 11 and 22 feet below ground surface (bgs) as interpreted from direct push refusal. Saturation was identified in five (5) of the 18 soil borings (SB-4, SB-7, SB-12, SB-13, and SB-14) at depths ranging between eight (8) and 13 feet bgs.

Soil cores were visually examined and scanned with a photoionization detector (PID) utilizing the headspace method. For vertical delineation, two (2) to three (3) soil samples were obtained from soil borings that exhibited elevated PID readings; one (1) soil sample from the area of the highest PID reading and one (1) soil sample from the interval above and/or below the highest PID reading. In soil borings where no PID readings were identified, one (1) soil sample was collected from either the unsaturated interval above the saturated soil interface or the unsaturated interval above the overburden/bedrock interval.

7.3 Soil Borings and Soil Sampling (continued)

Note: further interpretation is made that some of the soil samples collected represent unsaturated conditions at the time of sampling however are considered periodically saturated based on water levels in wells.

The soil samples were collected using dedicated, disposable approximate 5-gram soil samplers and placed in new laboratory bottle ware with the appropriate preservative. Samples were stored in an ice filled cooler during transport to Mountain Research's PADEP accredited laboratory (PADEP #07-00418) using proper chain of custody methodology. Soil samples were analyzed for site COCs via United States Environmental Protection Agency (EPA) method 8260B including: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene.

Upon completion of soil sampling activities, soil borings SB-1, SB-4, SB-8, SB-9, SB-11, SB-12, SB-13, and SB-14 were converted to monitoring wells MW-3, MW-1, MW-4, MW-8, MW-2, MW-5, MW-6 and MW-7, respectively. Soil boring locations are illustrated on **Figure 5**. Boring lithologic logs are included within **Appendix G**. Analytical results are discussed in **Section 9.0** of this report.

7.3.1 Geotechnical Soil Sampling

To aid in overburden aquifer fate and transport analysis/modeling, one (1) soil sample was collected for geotechnical analysis. The sample was collected from soil boring SB-4 and analyzed for bulk density, effective porosity, specific gravity, and fraction of organic carbon (FOC). It is noted that SB-4 is representative of non-petroleum impacted media and therefore FOC represents background levels. Analytical results are discussed in **Section 9.0** of this report.

7.4 Monitoring Wells

Sixteen overburden monitoring wells (MW-1 through MW-16) were installed on the site between June 2016 and April 2018 using hollow stem auger rig drilling techniques. Nine (9) shallow bedrock monitoring wells (MW-1BR through MW-9BR) were installed between March 2017 and March 2018 using combined hollow stem auger and air rotary drilling techniques. All wells were installed with two (2)-inch diameter casing/well screen with the exception of overburden well MW-14 which was installed with four (4)-inch diameter casing/well screen.

Screened intervals for overburden wells were designed to encompass the entire water column and extend higher than water table elevation to limit any "drowned screens". This was done to assist in evaluating any light non-aqueous phase liquids (LNAPL). Bedrock well screened intervals were designed to capture groundwater from the first observed bedrock water bearing zones and were sealed from encountering overburden aquifer groundwater.

The locations of the monitoring wells are illustrated on **Figure 3**. **Table 1** summarizes the installation dates and monitoring well construction details. Well construction and lithologic logs are contained in **Appendix G**. Descriptions of drilling methods, lithological logging and soil screening are described in **Appendix E**.

7.5 Aquifer Testing

Rising and falling head slug tests were performed by Mountain Research in September 2016 on overburden monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7. During each slug test water level measurements were recorded with an In-Site Level Troll 300 to record changing water levels over time.

The data gathered from each slug test was programmed into AQTESOLV for Windows (Version 3.5), along with individual monitoring well information to calculate aquifer characteristics via the Bouwer and Rice Method (Bouwer and Rice, 1976). Refer to **Appendix E** for the slug test methods description and **Appendix H** for the slug test analyses.

7.6 Site Survey

In July 2016, the subject property was surveyed by PA licensed surveyors from CME Engineering LP. CME's survey included site boundaries, infrastructure, utilities, the stream point, and the location and elevation of site monitoring wells and soil borings. Subsequent survey updates were conducted to encompass new wells by CME and Mountain Research.

7.7 Characterization of Waste

Excess soil produced during the advancement of soil borings and monitoring well installation activities was staged in 55-gallon steel drums on the subject property prior to being disposed of at a proper facility. In addition, all purge water produced during the development and sampling of site monitoring wells was staged in 55-gallon steel drums prior to being disposed at a proper facility. Waste disposal certificates for soil and groundwater are presented in **Appendix B**.

8.0 SITE GEOLOGY

The site is located within the Allegheny Mountain Section of the Appalachian Plateau Physiographic Province. According to published geologic data, underlying bedrock at the site is classified as the Pennsylvanian Age Glenshaw Formation. The Glenshaw Formation consists of a heterogeneous unit composed predominantly of alternating layers of shale, sandstone, siltstone, limestone, claystone (including underclay) and coal. Thickness of the formation ranges approximately from 280 to 375 feet. The rocks are well bedded in most places. Thickness of beds varies with lithology, ranging from a fraction of an inch to several feet. Sandstone is thick-bedded to massive; limestone varies from well-bedded to nodular; shale is thin and fissile; and claystone is very poorly bedded. Jointing in the Glenshaw Formation is poorly to moderately well-developed, moderately distributed, closely to moderately spaced, and open to vertical. Subsidence fractures may be encountered where underground coal and clay mining has occurred. The primary porosity of the sandstone layers is generally moderate. A secondary porosity is provided by jointing in the other lithologies. Sandstone bedrock was encountered at depths ranging from 11 to 22 feet bgs during drilling activities.

Structurally, the site lies between the northeast to southwest trending Chestnut Ridge Anticline and the Latrobe Syncline. The anticline is located to the southeast and the syncline is located to the northwest of the Site, therefore bedrock dip is approximated in a northwest direction. Refer to **Figure 6** for a copy of the geologic map which depicts the subject property.

8.0 SITE GEOLOGY (continued)

Review of Pennsylvania Mine Map Atlas resource (**Appendix I**) concerning historical underground mining yielded information pertaining to deep mining operations under the site. The Lucerne Ernest "E" Seam Mine is identified to contain room and pillar mining features directly under the site. This mine is listed as abandoned and within the Upper Freeport Coal. The Upper Freeport Coal is estimated to be approximately 100 feet below the surface elevation of the site based on formation mapping (Upper Freeport is located at Glenshaw and Allegheny Formation contact), site elevation, and considering an approximate northwest bedrock dip.

8.1 Soil

According to the United States Department of Agriculture (USDA), native soils at the property consist of Brinkerton silt loam, three to eight percent (3-8%) slopes (BkB) and Rayne-Gilpin channery silt loams, eight to twenty-five percent (8-25%) slopes, very stony (RsD). Soil encountered during drilling activities consisted of fill material followed by intervals of sandy clay, silty clay, and clay to depths of 11 to 22 feet bgs. Saturation was noted between 8 (eight) and 13 feet bgs. Refer to **Appendix G** for lithologic logs. A cross section location map, and cross sections A-A' and B-B' are included as **Figures 7** through **9**, respectively.

8.2 Bedrock Surface Elevation Mapping

The bedrock surface becomes more shallow in north eastern direction directly north of the UST and to a lesser degree south and west of the UST. A bedrock surface elevation contour map is created to better understand the influence bedrock surface features may have on groundwater flow.

The bedrock elevation at soil boring and monitoring well locations is determined through surface elevations and the depth to refusal of direct push or auger drilling. Refer to **Figure 10** for the bedrock surface elevation contour map interpretation. The map depicts an approximate 6 foot elevation change in bedrock oriented in a north south direction near the eastern end of the UST and dispensers. The elevation of bedrock is lower in the area starting near the UST and trending toward and under the Vennard building which may be interpreted as a small depression in bedrock elevation. In addition, an overall bedrock elevation grade in a southeast to northwest direction may be observed as approximately the same direction as regional bedrock dip.

8.3 Hydrogeology

The closest surface water body to the site is an unnamed tributary headwaters to Yellow Creek located approximately 150 feet west/northwest of the release area (**Figure 3**). This tributary is diverted into underground conduits as part of a storm water system near the property. An impoundment or pond is noted to be constructed upgradeint of the site at the beginning of the drainage basin for this stream.

8.3 Hydrogeology (continued)

Surface drainage follows site topography toward the west where it enters a subsurface storm water system on the western portion of the Site. This drainage is then diverted to the above mentioned storm water system which runs to retention basins located southwest of Lucerne Road.

8.3.1 Overburden Hydrogeology

Depth to overburden water table aquifer are measured between 1.25 and 13 feet bgs. Based on data obtained from groundwater sampling events static water level measurements range between 1.25 feet below top of casing (btoc) at MW-15 and 12.85 feet btoc at MW-16. The large difference in the depth to overburden groundwater may be attributed to surface elevation changes. Note: MW-16 is located in an area of higher elevation primarily due to fill material used to level the upper parking lot. The overburden water table elevations range from 1286.85 foot above sea level to 1270.14 foot above sea level. Based on the March 6 and May 24, 2018 groundwater gauging events of all wells and the stream point, the overburden groundwater gradient direction is west southwest. The magnitude of the gradient varies from a magnitude of and 0.030 ft/ft (3/6/18 measured between MW-13 and MW-12) and 0.026 ft/ft (5/24/18 measured between MW-13 and MW-12) for an average of 0.028 ft/ft west northwest gradient.

Static groundwater level measurements and groundwater elevations are summarized in **Table 2**. Representative overburden groundwater elevation contour maps for the two most recent monitoring well gauging events are prepared using the survey data and the static water levels and are included as **Figures 11 and 12**.

8.3.1.1 Overburden Aquifer Test Results

Time-displacement plots of rising and falling head slug test data from overburden monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7 were prepared for Bouwer and Rice Method best-fit line matching analysis. The slug test data gathered from each test was programmed into AQTESOLV for Windows (Version 3.5), along with individual monitoring well information to evaluate overburden aquifer characteristics.

Copies of the slug test data, corresponding displacement data, and displacement versus time graphs are presented in **Appendix H**. Overburden aquifer hydraulic conductivity values for the rising head slug tests are summarized within the table presented in **Appendix H**.

The Bouwer and Rice Method calculations yielded a geometric mean hydraulic conductivity value of **0.028 ft / day** for the **overburden** aquifer beneath the Site. Using the values of hydraulic conductivity (K) and an average aquifer thickness (b) of 6.9 feet, the calculated average transmissivity ($T = Kb$) is **0.6 ft² / day**.

8.3.2 Bedrock Hydrogeology

Bedrock water bearing zones were encountered between 16 and 25 feet bgs during drilling activities. Although the bedrock aquifer is evaluated separately from the overburden aquifer, the two aquifers may be interpreted as the same interconnected water table aquifer having different lithology. This is primarily supported through similar groundwater elevations in overburden wells located near bedrock wells and because of the similar dissolved phase impacts identified in both aquifers.

Based on data obtained from groundwater sampling events static water level measurements range between 1.1 feet below top of casing (btoc) at MW-7BR and 12.83 feet btoc at MW-5BR. The static water levels measurements are interpreted to represent water table aquifer levels when screened in deeper portions of the aquifer.

The bedrock aquifer elevations range from 1272.28 (MW-3BR) foot above sea level to 1279.19 (MW-4BR) foot above sea level. Based on the March 6 and May 24, 2018 groundwater gauging events of all wells, the bedrock groundwater gradient direction is west southwest. The magnitude of the gradient varies from a magnitude of 0.025 ft/ft (3/6/18 measured between MW-4BR and MW-8BR) and 0.022 ft/ft (5/24/18 measured between MW-4BR and MW-2BR) for an average of 0.024 ft/ft west southwest gradient. The gradient direction and magnitude are similar to that of the overburden aquifer.

Static groundwater level measurements and groundwater elevations are summarized in **Table 2**. Representative bedrock aquifer groundwater elevation contour maps for the two most recent monitoring well gauging events are prepared using the survey data and the static water levels and are included as **Figures 13 and 14**.

It is noted that feasibility testing of the aquifers identified connectivity of bedrock aquifer with the overburden aquifer. This was established while observing drawdown in overburden wells when pumping wells screened in bedrock.

8.4 Vertical Groundwater Gradient

Vertical groundwater gradient was evaluated through comparison of water level elevation in adjacent wells having different vertical screened intervals. For this purpose overburden/bedrock well pairs MW-3/MW-3BR, MW-8/MW-1BR, MW-9/MW-4BR, MW-15/MW-7BR and were compared as exhibited in the table below. Both upward and downward gradients are observed.

8.4 Vertical Groundwater Gradient (continued)

Upward gradients are observed in areas of relatively shallow bedrock occurrence while those areas having thicker deposits of overburden appear to have downward gradients.

Well Pair	Water level elevation comparison 5/24/18	Relative vertical gradient
MW-3/MW-3BR	1274.28/1274.52	upward
MW-8/MW-1BR	1278.56/1276.88	downward
MW-9/MW-4BR	1277.44/1278.05	upward
MW-11/MW-8BR	1274.43/1275.70	upward

9.0 ANALYTICAL RESULTS

Soil and groundwater samples were analyzed using EPA approved methods for the regulated substances related to the release of unleaded gasoline and diesel fuel including benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, naphthalene, 1,2,4-trimethylbenzene, and 1,3,5 - trimethylbenzene by EPA Method 8260B. Analytical results of the soil and groundwater samples are presented in the following subsections.

9.1 Soil Sampling Analytical Results

Analytical results from the 30 soil samples collected from the 18 soil borings advanced on the subject property indicate concentration of 1,2,4-trimethylbenzene (SB-6 and SB-9) and benzene (SB-3, SB-9 and SB-18) above their respective PADEP NRUA soil to groundwater MSC. The aforementioned impacts were identified at depths ranging from five (5) to 11 feet bgs. Samples obtained from SB-3, SB-6, and SB-9 (9.5') are interpreted to represent a periodically saturated soil within the zone of groundwater table fluctuations (smear zone). The sample obtained from SB-9(10.5') is interpreted to represent permanently saturated soil. The soils samples obtained from SB-18 are interpreted to represent unsaturated soil. Concentrations of all other analyzed parameters were either below their respective PADEP NRUA soil to groundwater MSC or below laboratory detection limits, which were set below each constituent's respective PADEP NRUA soil to groundwater MSC. No sample was in concentrations above NRUA direct contact MSC.

Four (4) soil samples were obtained from soil borings advanced during Phase II investigation by others. The soil borings are located in areas north and south of the UST and sampled at various depths between three (3) foot and 12 foot bgs. The analytical results of these four (4) samples indicate concentrations of COC above MSC. An interpretation of these results is presented in **Table 3**.

Refer to **Figure 5** for soil boring locations with locations of soil exceeding MSC, **Table 3** for a summary of soil analytical results and **Appendix J** for laboratory data sheets.

9.1.1 Geotech Results

A geotechnical sample and fraction of organic carbon (FOC) soil samples were collected from MW-1(SB-4) at 11 feet bgs. Soil geotechnical analysis was completed by Geotechnical Testing Services of Coraopolis, PA. The sample displayed a dry soil bulk density value of 1.6 grams per cubic centimeter, a total porosity of 0.39 (unitless), and a specific gravity of 2.64 grams per cubic centimeter. FOC was analyzed by Mountain Research's Laboratory using ASTM D2974-00C. The soil FOC value was calculated at 2.42%. Refer to **Appendix K** for a copy of the Geotechnical Laboratory Analytical Report and FOC laboratory report. Refer to **Figure 5** for a site map illustrating the geotechnical soil sample location. It is noted that the FOC sample is obtained from a non-petroleum impacted location.

9.2 Groundwater

Since July 2016, Mountain Research has several rounds of groundwater sampling events to evaluate each iteration of groundwater monitoring wells. Two complete groundwater sampling events were conducted for the current full set of monitoring wells on March 22nd and May 25th, 2018.

Analytical results have identified the following constituents at concentrations above their respective PADEP NRUA MSC; 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, xylenes, MTBE and naphthalene. Concentrations of all remaining analyzed constituents were either below laboratory detection limits (which were set below each constituent's respective PADEP NRUA groundwater MSC) or below their respective PADEP NRUA groundwater MSC in all remaining analyzed monitoring wells.

Refer to **Appendix L** for laboratory analytical data sheets for groundwater samples collected by Mountain Research which are summarized in **Table 4**. Isoconcentration maps for constituents identified above their respective PADEP NRUA groundwater MSC are included in **Appendix M**.

9.3 LNAPL Observations

Observations of LNAPL is made periodically in monitoring well MW-2 and in the UST field sump. Observations of sheen are also made in MW-4, MW-2BR, EW-1, and the abandoned Vennard building sump. The observed LNAPL is summarized in **Table 2**. A LNAPL thickness of 0.60 to 0.08 has been periodically observed in monitoring well MW-2. A LNAPL thickness of 0.21 to 0.03 foot has been observed in the tank field sump. The most recent gauging event did not identify product in the tank field sump. It is noted that the product thickness in MW-2 and the tank field sump is decreasing over time.

10.0 SITE CONCEPTUAL MODEL/FATE AND TRANSPORT ANALYSIS

Site characterization information and data were used to formulate a conceptual model for the site. The purpose of a conceptual model is to consolidate site-specific geologic, hydrogeologic and COC data into a set of assumptions and / or concepts which may be further evaluated through the use of quantitative methods. The conceptual model serves as the basic example for the empirical formulations, which can be used to further assess or quantify the migration of COCs.

10.0 SITE CONCEPTUAL MODEL/FATE AND TRANSPORT ANALYSIS (continued)

Soil and groundwater analytical results indicate that petroleum hydrocarbon constituents typically associated with a release of diesel fuel and/or unleaded gasoline are present at detectable concentrations above and below the current PADEP NRUA MSCs for groundwater and soil. The nature and extent of the petroleum release(s) and potential migration pathways were evaluated through the comparison of the soil and groundwater analytical data in relation to site features and the geologic and hydrogeologic settings of the facility. The conceptual site model and the fate and transport analysis developed from the evaluation is discussed in the following sections.

10.1 Source Area and COCs

The source of the release identified in the investigation was a failed fitting on the diesel dispenser. Once the failure was identified (in September 2015), Mr. Vennard repaired the fitting and restored the integrity of the dispenser. Because MTBE has been identified at detectable concentrations in groundwater and the use of MTBE was banned in 2006, it is interpreted that the release began prior to the restriction of MTBE use and was chronic in nature. The volume of released product is unknown.

It is noted that the observation of LNAPL in tank field sump and MW-2 may suggest that other unidentified sources from the UST and UST system may be contributing to the impacts of the site. The tank testing conducted in 2017 was inconclusive for most components. Other potential sources may include overfilling, unknown line leaks, or other line fitting leaks. Identification of shallow soil impacts near vent lines may also be interpreted to have originated from one or more of these alternative sources. Based on decreasing thickness of observed NAPL in the tank field sump and MW-2, the source may be interpreted as a one time event.

The following constituents are identified as the COCs in the listed media:

Groundwater: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene.

Soil: 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, cumene, and naphthalene.

10.2 Transport Mechanisms

Potential transport mechanisms for impacted soil include dissolution into water entering the soil column from near or at the surface, groundwater fluctuations that intersect the impacted soil, and volatilization. The impacts are below the surface and transport through wind or other weathering mechanisms are not considered.

10.2 Transport Mechanisms (continued)

Atmospheric water or other sources of water entering the subsurface have the potential to migrate downward through the impacted soils. Water encountering impacted soil has the potential to dissolve COC from the soil and impact this recharge water. Minimal atmospheric water is interpreted to have influence in the source area of impacted soils because of the impermeable asphalt covered parking lot. However, grass covered areas north of the UST may receive recharge from precipitation potentially encountering soil impacts in that area.

Volatilization of COCs from impacted soil to soil gas in the soil matrix may occur. The transport of COC soil gas may migrate laterally or vertically through soil which may be influenced by preferential pathways such as underground utilities. Soil gas may migrate upward into enclosed spaces such as buildings.

The overburden and shallow bedrock groundwater is identified to be impacted with COCs. Potential transport mechanisms for the groundwater impacts include groundwater flow migration and volatilization. Groundwater is not used for potable wells in the area, therefore the transport of impacted groundwater through extraction is not considered.

Impacted groundwater may migrate with groundwater gradient or by other preferential transport routes. The details of the groundwater flow interpretation is presented in subsequent section of this report.

Volatilization of COCs from impacted groundwater may occur. The transport of COC soil gas may migrate laterally or vertically through soil which may be influenced by preferential pathways such as underground utilities. Soil gas may migrate upward into enclosed spaces such as buildings.

10.3 Receptors and Receptor Pathways

Receptors include non-residential commercial workers at the Vennards and Young Engineering facilities to potential volatilized COC within the buildings. Groundwater is not used for potable or other uses at the site and therefore is not a receptor to human exposure. The concentrations of COC are all below the non-residential direct contact MSC and located below the ground surface. Therefore direct contact to impacted soil is not considered. The small tributary located north of the impacted groundwater is a potential receptor if groundwater baseflow is contributing to the waterway. At this point the impacted groundwater does not reach the stream based on analysis of groundwater from wells MW-15, MW-16 and MW-7BR, therefore no impacted baseflow is interpreted to enter the stream. In addition, samples collected from the stream have no detections of COCs.

10.4 Building Construction

The two site buildings are constructed as a one story commercial buildings with basements below or partially below grade. The basement floors are both constructed as slab on grade concrete and are both near the water table elevation.

10.5 Preferential Pathways

Preferential pathways for overburden groundwater flow may include underground utilities, fill material used in site development, bedrock structures, and bedrock/overburden surface.

10.5.1 Utility Preferential Pathways

The product lines connecting the UST to the dispensers are identified as a preferential pathway for the migration of product emanating from dispensers. Any product leaking from the dispenser system could potentially follow the porous fill material used to fill the excavation surrounding the product lines connecting the UST with the dispensers. The grade of the piping system is downward between the dispensers and the UST, which may also influence migration. LNAPL identified in the UST field monitoring point/former sump and MW-8 impacts near the UST are interpreted to potentially be attributed to this migration.

The underground sewer line located near the northern Vennard property boundary (southern WDG boundary) runs in a northeast to southwest direction. The depth to this utility is estimated to be 10-12 feet below the surface. This utility may intersect overburden groundwater and create a preferential pathway for migration in a southwestern direction along its path. No other utilities within the impacted media portion of the site are identified to be deep enough to cause preferential migration of groundwater.

Vapor emanating from impacted media may preferentially migrate along several underground utilities which connect to the Site buildings, thus creating a vapor intrusion into building concern. These utilities include the sewer lines, UST vapor lines, and UST electrical lines for the Vennard building and the sewer lateral for the Young Engineering building.

10.5.2 Fill Preferential Pathway

The owner of the property has stated that fill material has been used to aid in bringing the site to current grade. This fill material may create a preferential pathway within the fill or at the boundary of the fill and natural soil. The fill material is not identified in drilling logs to be significantly different than the native material and therefore is not considered a preferential pathway.

In addition to the fill material used to bring the site to grade, porous fill material surrounding the UST system may act as preferential pathway for impacted groundwater where saturated. The UST is estimated to be installed to a depth of 15 feet below surface. Overburden groundwater within this excavation may migrate in all directions around the UST to the extent of the excavation and beyond due to the porous fill material. LNAPL identified in a monitoring point within the UST field supports this migration pathway.

10.5.3 Bedrock Interface Preferential Pathways

The bedrock surface elevation is interpreted to abruptly increase elevation starting near the eastern end of the UST and eastern side of the Vennard building. This feature may also be interpreted as a bedrock surface elevation depression location beneath the UST system and the Vennard building. A bedrock surface elevation contour map was created to better understand the influence bedrock surface features may have on groundwater flow. The bedrock surface is interpreted from direct push or auger drilling refusal, bedrock monitoring well air rotary logs, and site survey. Refer to **Figure 10** for the bedrock surface elevation contour map. The map depicts a drop in top of bedrock elevation beneath the UST, dispenser island, and portions of the Vennard building. The eastern side of this feature roughly follows bedrock strike orientation in a north south direction as exhibited in **Figure 10 and 15**.

The interface of the deeper overburden (near the UST and building) adjacent to the abrupt change in bedrock elevation may cause two types of preferential pathways. The bedrock interface may create a preferential pathway for overburden groundwater migration along the interface of the bedrock where overburden deepens. In addition, a preferential pathway of overburden aquifer water to enter bedding planes or fractures in the bedrock aquifer may be created along the same interface.

Impacted overburden groundwater migration may be further influenced by this bedrock surface feature causing impacted overburden water to remain within the deeper overburden possibly acting as an enhanced recharge area for bedrock aquifer.

10.6 Aquifer System

Two water bearing zones are characterized through monitoring wells screened at different vertical intervals in different lithology. The upper water bearing zone is within the overburden lithology and the deeper water bearing zone is within the shallow bedrock. The overburden aquifer is interpreted to represent a water table aquifer having no confining characteristics. The shallow bedrock aquifer is interpreted to be a continuation of the water table aquifer within a different lithology.

Based on lithologic logs and measured groundwater elevations in wells, overburden soil depth ranges from 7 to 22 feet thick with saturation occurring at varying depths. According to soil boring/monitoring well logs, overburden materials consist of up to three (3) feet of clay fill material followed by intervals of sandy clay, silty clay, and sand. The thickness of overburden is observed to not be consistent due fill material and shallowing of bedrock surface in eastern and southern directions (as explained in previous section of this report).

The bedrock aquifer is identified in water bearing zones primarily within fractured sandstone bedrock. Other minor lithologies include coal and shale. The depth to water bearing zones vary from 16 to 25 feet bgs. Water levels observed in wells are all above the water bearing zones which are interpreted to represent the water table aquifer.

10.6 Aquifer System (continued)

The change in bedrock elevation is most prevalent in the area near the UST and pump islands as exhibited in **Figure 10**. In addition Refer to **Figure 7** for a cross section location map and **Figures 8 and 9** for cross sections A-A' and B-B'. Where the overburden aquifer meets the steep bedrock elevation change, the two aquifers are interpreted to be highly interconnected. This interpretation is made due to the observed groundwater impacts entering the bedrock aquifer near this steep change in bedrock elevation.

Overburden and Bedrock groundwater gradient are both in varying degrees toward the west. Groundwater elevation contour maps are included as **Figures 11 through 14**. Although the aquifer gradients are in western directions, the interpretation of primary overburden and bedrock groundwater flow direction is different as discussed in other sections concerning dissolved phase constituent transport.

10.7 Conceptual COC Migration Groundwater Flow

A release is identified to have occurred in the central portion of the subject property (pump island). Once this released product entered the subsurface, it is interpreted to have migrated vertically downward and laterally in a northern direction, possibly along the product delivery lines, to the UST field. Along this migration path the product is interpreted to have sorbed to unsaturated soil as observed with petroleum impacts to soil borings samples SB-3 (8') and SB-6 (6'). As the petroleum product migrated downward it would come in contact with groundwater at which point it may dissolve and be present in groundwater as dissolved phase impacts. In addition, the portion of the product that does not dissolve may exist as LNAPL on the surface of the groundwater. Evidence of groundwater impacts between the dispenser source and UST is observed in MW-4.

Other potential sources include unknown UST system releases or overfilling. These potential sources are located near the UST and may primarily be concentrated in the porous fill material surrounding the UST. In addition, unsaturated soil impacts at SB-18 (5' and 6.5') may indicate an overfill or other UST system release.

Groundwater impacted with dissolved phase impacts and/or LNAPL may impact soil through further sorption of petroleum COCs. Proof of soil impacts near the unsaturated/saturated soil boundary (smear zone) and deeper is present in soil boring samples SB-3 (12'), SB-6 (11), SB-7 (13'), SB-8 (10'), SB-9 (9.5' & 10.5'), indicating this process has occurred in periodically saturated and saturated soils.

Overburden and bedrock aquifers are identified to be impacted. The impacts are interpreted to have started in overburden aquifer and migrated with preferential and advective flow paths. In addition, petroleum impacts originating in the overburden have entered into the bedrock aquifer and migrated primarily in a northern direction, not following bedrock aquifer gradient.

10.7 Conceptual COC Migration Groundwater Flow (continued)

For the purpose of conceptualizing groundwater flow, the source area is simplified to the UST area. Due to the complex interpretation of the groundwater flow, in both aquifers, no quantified fate and transport model is prepared. The majority of the groundwater flow is interpreted to follow preferential pathways and not follow groundwater gradient, therefore a qualitative fate and transport analysis is explained.

10.7.1 Overburden Impacted Groundwater Fate and Transport

Once in the UST field, product dispersed through the fill material and encountered overburden groundwater. Once in dissolved phase, impacts migrated in north, northeast, and northwestern directions through diffusion or following preferential pathways. Dissolved phase migration in overburden aquifer is best identified through evaluation of COC isoconcentration maps (**Appendix M**).

Observations of impacts in MW-8, which is located upgradient from the source are interpreted to have migrated through diffusion or mounding of water in the fill material around the UST. Dissolved phase impacts identified in MW-2, MW-7, and MW-14 are interpreted to have migrated advectively with the overburden groundwater gradient.

Overburden groundwater impacts in MW-10, are interpreted to be evidence of northern overburden preferential flow path. The flow path may be associated with thin sand bodies or be associated with the north south trending bedrock interface (potentially representing bedrock strike) identified through bedrock elevation mapping.

Observations of impacts in MW-4 located between the dispensers and UST are interpreted to have primarily migrated from a release near dispensers. To a lesser degree, MW-4 dissolved phase impacts may be in part due to southern preferential migration potentially with thin sand bodies or diffusion with the bedrock depression area of deeper overburden soils.

Overall overburden groundwater migration appears to be dependant both upon groundwater gradient and preferential pathways. Based on concentration of dissolved phase impacts in MW-14 the overburden groundwater flow follows gradient in a western direction. However the migration downgradient of MW-14 does not appear to continue, possibly due to the shallowing of overburden material in western direction. This limited migration west of MW-14 is evident with minimal dissolved phase concentration in MW-7, MW-11, MW-12, and MW-6. Based on dissolved phase concentrations in MW-10 and MW-2, there is a strong preferential overburden aquifer flow in northern direction from the UST.

Future migration of the impacted overburden groundwater is interpreted to flow in a northern direction and potentially discharge to the small tributary north of the site. In addition a portion of the groundwater flow may continue to migrate in a western direction with gradient toward the western property boundary and further under the Vennard building.

10.7.2 Bedrock Impacted Groundwater Fate and Transport

Dissolved phase bedrock aquifer impacts are identified in areas north and east of the UST. Although bedrock aquifer gradient is in western direction the petroleum impacts to groundwater are not interpreted to flow in this direction as may be interpreted from COC isoconcentration maps (**Appendix M**)

The bedrock groundwater impacts are interpreted to be primarily concentrated near the north south trending interface between deeper overburden aquifer and bedrock interface. Based on this observation, the bedrock aquifer is hydrogeologically connected with the overburden aquifer near this interface.

Based on higher concentrations of bedrock aquifer impacts in MW-5BR the primary direction of groundwater flow in the bedrock aquifer is in northern direction following strike. No evidence of advective bedrock groundwater flow with western gradient is observed through lack of impacts in downgradient wells MW-2BR, MW-7BR and MW-8BR.

Future migration of bedrock aquifer is interpreted to continue in northern direction.

11.0 VAPOR INTRUSION INTO BUILDINGS

Assessment of potential vapor intrusion exposure pathways is required under the SHS closure strategies. The January 2017 Land Recycling Program Technical Guidance Manual-Vapor Intrusion Into Buildings (VIB) from Groundwater and Soil under Act 2 (the "2017 VIB Guidance") was followed to perform the vapor intrusion assessment for this site. Certain compounds typically associated with a release of petroleum products may represent a vapor intrusion concern even at concentrations in soil below NRUA soil to groundwater pathway MSCs or in groundwater below NRUA groundwater MSCs. The document provides guidance in identifying potential vapor intrusion sources to current and future planned buildings and determining if additional vapor intrusion assessment, remedial actions, or mitigation is required to address Chapter 250 requirements.

11.1 Screening for Potential Vapor Intrusion Sources

The conceptual site model was first evaluated to determine vapor intrusion into building potential and potential migration pathway. The evaluation determined that subsurface soil impacts and overburden aquifer groundwater have the potential to volatilize and enter the Vennard building through the cracks in foundation or concrete floor or travel preferentially along the buried utility preferential pathways. In addition, soil vapor sourced from the overburden groundwater have the potential to enter the Young Engineering Building. Therefore, further screening with these considerations was conducted. NAPL periodically identified in wells and sumps near the Vennard building is also a source for vapor intrusion into the Vennard building.

To determine if potential vapor intrusion source(s) exist at the site, the 2017 VIB Guidance was followed to assess and screen site specific data. The assessment and screening process applied at the site is described in the following subsections.



11.1.1 Building Receptors

The Vennard building is located within 30 horizontal feet of one soil boring, SB-18. Other soil borings are located at greater distances. Both the Vennard building and the Young Engineering building are located within 30 feet of several monitoring sample points. The two buildings are used for commercial purposes and each are constructed with a below grade basement. The buildings are constructed with block walls and concrete slab on grade floors. There are no current plans for additional building construction at the site.

The Vennard building is located near the impacted residual soil and overburden aquifer impacts which will require evaluation of building vapor intrusion. In addition, two (2) utilities are identified to penetrate or be located adjacent to the building which may provide a preferential pathway for soil vapor to travel into the Vennard building from the UST source area.

The Young Engineering building is located near overburden aquifer impacts which will require evaluation of building vapor intrusion. In addition, the sewer line utility is identified to penetrate the building which may provide a preferential pathway for soil vapor to travel into the Young Engineering building from the impacted groundwater.

11.1.2 Underground Utilities

Underground utilities identified at the site within 30 feet of the soil or groundwater impacts near buildings include and considered in the vapor intrusion evaluation as potential preferential pathways.;

- UST vent lines and electrical lines (approximately three[3] to six [6] feet bgs) and located between the UST and the Vennard building
- sanitary sewer lateral line (approximately six [6] to eight [8] feet bgs) and located near the south center of the Young Engineering

11.1.3 Soil Like Material

The soil and fill material below the site are interpreted to fit the *2017 VIB Guidance* definition of soil like material for vapor intrusion considerations. However, because groundwater does not have a minimum of five feet of soil like material between the groundwater source and the foundation level of both the Vennard and Young Engineering Buildings, groundwater screening values for vapor intrusion considerations cannot be used. In addition, the occasional occurrence of NAPL near the Vennard Building does not have a minimum of five feet of soil like material between it and the Vennard building foundation.

Due to the inability to screen out the shallow overburden groundwater through VIB Guidance screening options (due to less than 5 foot of soil like material between foundation and groundwater) additional assessment options are evaluated.

11.2 **Additional Assessment Options**

Based on the 2017 VIB Guidance, additional assessment options under the SHS remedial standard include the following:

- Obtain vapor samples (near-source, sub-slab,, or indoor air) and compare results to corresponding SHS screening values
- Model constituent concentrations in soil and groundwater to predict vapor conditions and compare to indoor air screening values
- Mitigate (and ensure its success through quantitative analysis) and attach an environmental covenant to the property deed)
- Remediate and then reassess the VI pathway

Not all assessment options listed above are appropriate to further evaluate vapor conditions at the site as explained below.

- **Soil Vapor Sampling**

Depth to potential VI groundwater/NAPL sources near the Vennard building are fluctuate from approximately 7.92 feet to 6.16 feet bgs based on MW-14 observations. This water level is near the 5 foot minimum sampling depth for soil vapor sampling. Therefore, soil vapor sampling near the Vennard Building at a depth of 5 foot bgs or more may not be possible.

Depth to potential VI groundwater source near the Young Engineering building (MW-10 area) is over 10 foot bgs. Near Source soil vapor sampling for adjacent to this building is appropriate.

- **Sub-Slab Sampling**

Sub slab soil vapor samples collected beneath either building slab are not practical at the Site because the potential vapor intrusion sources (overburden groundwater and NAPL [Vennards Building]) are located at depth that are shallower or at the same elevation as the building foundation.

- **Indoor Air Sampling**

Indoor air sampling at the Vennard building it not practical due to the background sources caused by the operation of the dispensers outside of the front doors causing petroleum vapors to enter the building as observed by Mountain Research personnel. Indoor air sampling at Young Engineering building is practical but not recommended because Soil Vapor near source sampling is practical.

- **Modeling**

Due to the presence of preferential pathways, modeling cannot be used to evaluate vapor conditions at the site.

11.2 **Additional Assessment Options (continued)**

- **Mitigation**

Because quantitative evaluation of shallow potential vapor sources through sampling may not be an option for the Vennard Building, mitigation may be necessary to address shallow potential vapor sources.

- **Remediation**

Because quantitative evaluation of shallow potential vapor sources through sampling may not be an option for the Vennard Building, remediation may be necessary to address shallow potential vapor sources.

After reviewing additional vapor assessment option for the site, the collection and analysis of near-source soil vapor samples were conducted near the Vennard Building and near the Young Engineering Building. The sampling points near Vennard Building was installed in a manner to sample at a depth greater than 5 foot bgs with the contingency to sample shallower if water levels prohibited the 5 foot depth.

11.3 **Soil Vapor Point Installation**

Assessment of vapor intrusion risk was quantified through near source soil vapor sampling at sampling points installed near the two Site buildings and within the area above groundwater (and potential NAPL).

Two (2) soil vapor monitoring points (VP-1 and VP-2) were installed at the site in April 2018. VP-1 is installed near the Young Engineering building in the vicinity of the overburden groundwater source near MW-10. VP-2 was installed near the northeast corner of the Vennard Building over areas of identified overburden impacts and potential LNAPL. VP-2 is installed as a nested pair at two separate depths. The nested points were installed in a manner to install one at the desired depth of 5 foot bgs to meet recommended 2017 VIB Guidance criteria and at a shallower 3.5 foot bgs depth to be used if the deeper point became immersed in potential higher groundwater levels. Designations of these pairs are made with depth intervals as follows: VP-2(5') and VP-2(3.5').

Direct push drilling was used to advance 2.5 to 3.5 inch diameter hollow tubes with an expendable point to the desired sampling point for each vapor point. The drill is then lifted approximately six (6) inches and the expendable point is released. A small layer (approximately two inches) of sand is then placed at the bottom of the borehole. A 6-inch long by 0.5-inch diameter, cylindrical, stainless steel sampling screen (Geoprobe® Model AT86) is attached to nylon tubing. Sand was placed around the implant and to six (6) inches above the implant.

11.3 Soil Vapor Point Installation (continued)

Granular bentonite pellets were used to complete the backfill of the borehole to approximately one (1) foot below surface grade. The bentonite was incrementally hydrated throughout the process to provide an adequate seal. The hollow drilling tubes were lifted from the borehole throughout the implant installation process to ensure that no borehole cave-in occurs. The borehole was then capped with a steel manway to provide access to the nylon tubing, and the remaining borehole filled with concrete to grade to complete the seal. Refer to **Figure 3** for the location of VP-1, and VP-2 and to **Appendix G** for construction logs.

11.4 Soil Vapor Point Integrity Testing

Prior to sampling activities, Mountain Research performed integrity tests on the soil vapor points. Methodology used in soil gas sample point integrity testing by use of a tracer gas has been based upon suggestions presented within the New York State Department of Health's (DOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* document, dated October 2006. Soil vapor sampling points are tested individually prior to sampling for adequate seal as a quality assurance / control measure. An adequate seal is required for accurate sampling to ensure surface air is not being drawn into the subsurface during the collection of a soil vapor sample.

Mountain Research uses helium as a tracer gas for testing soil vapor sampling points due to its compatibility with a wide range of compounds, availability, and ability to be monitored with hand held detectors.

The soil vapor sample point cap is opened and tubing is connected to the vapor point in a "T shape", one half of which is then connected to a laboratory certified six (6) liter Summa canister. The canister and sample tubing are covered by a plastic shroud. The shroud is then filled with "party-grade" helium. Before performing the integrity test, the helium concentration inside of the shroud is tested using a hand held helium detector to ensure the atmosphere is saturated with helium gas. The concentration of helium within the shroud is recorded.

After a helium saturated environment is created within the shroud, soil vapor is drawn from the sample point using an electric pump. The soil vapor is purged at a rate of approximately 100 milliliters per minute for five (5) minutes. In order to pass the integrity test, the helium concentration in soil vapor must be <5% of the helium content in the shroud. If the test passes, vapor sampling will commence.

Integrity tests was performed on VP-1 and VP-2 prior to soil vapor sampling. Helium concentrations for the integrity tests were detected at levels below 5% of the original helium concentrations within the shroud during each of the two (2) tests. Therefore, the structural integrity was deemed satisfactory for the vapor monitoring point.

In addition to the field test, the sample is tested at the laboratory for helium to further evaluate the integrity of the sample.

11.5 Soil Vapor Sampling and Analytical Results

Two (2) rounds of soil vapor sampling were conducted on the property. The first round of soil vapor sampling was conducted on May 9, 2018 with the second round of sampling conducted in July 2018.

Prior to sampling, a minimum of three (3) volumes of air were purged from the sample point and line. The vapor samples were collected in laboratory prepared 6 Liter Summa® canisters. The canisters were fitted with a laboratory calibrated regulator to allow for a 30 minute draw. The samples were analyzed at a National Environmental Laboratory Accreditation Conference certified laboratory for 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, toluene, ethylbenzene, total xylenes, MTBE, cumene, and naphthalene via EPA method TO-15. The sample is also analyzed for helium as a secondary integrity test to the field integrity testing described in previous sections. During each sampling event, one (1) duplicate sample was collected for QA/QC purposes.

Water was drawn from the VP-2(5') sample point during purging in May 2018, which was interpreted to indicate water levels above the 5 foot screen. Therefore samples from VP-2(3.5) was sampled as an alternative. VP-2(5') was sampled in July 2018 because no water was drawn during purging.

The analytical results of the two (2) rounds of soil vapor sampling collected in 2018 resulted in detections of: benzene, toluene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene, at concentrations below their respective PADEP VIB Guidance Non-Residential Near-Source Soil Gas Statewide Health Standard Vapor Intrusion Screening Values (**Table 5**). Remaining analyzed constituents were not identified at detectable concentrations. Near Source screening values were selected as (at the time of the investigation) the sample points were near to past areas of residually impacted soil and groundwater sources of vapor intrusion. Based on the two (2) rounds of soil vapor analytical results, current or future risk of vapor intrusion related to the two current commercial buildings at the Site is acceptable. Refer to **Appendix N** for the analytical laboratory reports for the soil vapor samples.

11.6 VIB Conclusions

Soil vapor intrusion potential is identified through PADEP screening process guidance. Therefore soil vapor sampling was conducted near the two building receptors. The results of the two soil vapor sampling events indicate acceptable concentrations of soil vapor for SHS screening purposes. An integrity test was performed at each sample location during each sampling event to assist in validating the data. Because the site is proposed to be remediation NRUA SHS, the potential vapor intrusion source will be eliminated.

12.0 ECOLOGICAL RECEPTOR EVALUATION

Guidance under PA code Title 25 §250.311(a) (1-4) (Evaluation of Ecological Receptors) was followed for the purpose of assessing potential impacts to the following ecological receptors:

- Individuals of threatened or endangered species as designated by the United States Fish and Wildlife Service under the Endangered Species Act (16 U.S.C.A. § § 1531—1544).
- Exceptional value wetlands as defined in PA Code Title 25 § 105.17 (relating to wetlands).
- Habitats of concern.
- Species of concern.

The Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Tool was used to assess the occurrence of threatened or endangered species, habitats of concern, and species of concern. In addition, the US Fish and Wildlife Service (USFWS) National Wetlands Inventory Mapper was used to evaluate if significant wetlands were delineated within the site boundaries.

The results of the PNDI review indicate no known impact from any of the four (4) agencies data bases including PA Game Commission, PA Department of Conservation and Natural Resources, PA Fish and Boat Commission, and USFWS. Review of the USFWS National Wetlands Inventory Mapper yielded no known wetlands near or within the site. A copy of the PNDI Environmental Review Receipt and a print of the Wetlands Inventory Map are included for reference as **Appendix O**. Based on the results of these two (2) resources, no ecological receptors as listed above are located near or within the boundaries of the subject property.

In addition, the COC identified at the site are classified as light petroleum products which include unleaded gasoline and diesel. Based on PA code Title 25 §250.311(b) (1), an evaluation of ecological receptors is not required for sites containing petroleum impacts.

Due to the lack of characterized ecological receptors and the nature of the COC, no further ecological evaluation was deemed necessary.

13.0 CHARACTERIZATION OBJECTIVES

The following site characterization objectives were developed for site characterization:

- Identify the extent of impacted groundwater.
- Identify the extent of impacted soil.
- Describe the study area geology, hydrogeology, aquifer characteristics, and physical parameters such that a remediation standard and strategy for the site can be selected.
- Develop a site conceptual model from which the fate and transport of constituents can be evaluated by modeling or analysis.
- Evaluate potential VIB risks.



13.1 Characterization Conclusions

Based on site characterization activities, the following conclusions have been made:

- Physical and olfactory evidence of a petroleum release identified during Phase 2 activities conducted in September 2015 prompted Site Characterization activities.
- An overburden aquifer and shallow bedrock aquifer are identified at the site. Groundwater gradients within the aquifers are in a western direction.
- Analytical results for groundwater samples collected from overburden and bedrock monitoring wells identified petroleum constituent of concern (COC) concentrations above their respective Pennsylvania Department of Environmental Protection (PADEP) Non-Residential Used Aquifer (NRUA) Medium Specific Concentration (MSC).
- Fate and transport analysis interpretation indicates dissolved phase migration primarily follows preferential pathways in a northern direction within both the overburden and bedrock aquifers.
- Soils impacted with petroleum above the NRUA soil to groundwater MSC are identified in three separate areas near UST components.
- Vapor intrusion into buildings was evaluated through near source soil vapor samples at each site building. The analytical results indicate acceptable near source soil vapor screening concentrations. However, remediation is recommended to further address potential vapor intrusion into the Vennard building.
- The proposed remedial standard for the property is the NRUA statewide health standard (SHS) for soil and groundwater.
- Vacuum enhanced groundwater extraction and limited soil excavation/disposal are the remedial technologies of choice, feasibility studies are completed and show favorable results for the technology.

14.0 REMEDIAL ACTION OPTIONS

The following technologies were considered for this site:

- Soil Excavation
- *Groundwater extraction*
- *Enhanced bioremediation*
- *Dual Phase Extraction (DPE) or Soil Vapor Extraction (SVE)*
- *Monitored Natural Attenuation*
- *Air sparging/SVE*
- *Risk Based closure having limited active remediation*

Although each of the technologies could be applied to the site, several technologies were considered inappropriate. The following is an evaluation of each technique.

Soil Excavation

Soil excavation involves the removal of impacted soils from the site. The excavated soils are disposed at proper facility and the excavated area is backfilled with clean fill material. Impacted soil exists in the vicinity of the dispensers, vent lines, and the UST field in three separate areas. The vertical extent of soil contamination is delineated and identified to be located in periodically saturated soils near the unsaturated/saturated soil interface in two separate areas. In addition, a third area of shallow unsaturated soil impacts are identified. Soil excavation may be conducted at the site for petroleum mass source removal in these three areas. The soils located near the saturated zone may be more difficult to dispose due to the need to drain the majority of saturation prior to transport. This may limit the amount of mass removed and may depend upon the water table elevation at the time of excavation. In addition, UST system components may limit the ability to remove all soil impacts. Although excavation limitation exist, the petroleum mass removal is appropriate and will aid in overall groundwater remediation by removing source material.

Groundwater Extraction / Vacuum Enhanced Groundwater Extraction

Groundwater extraction and treatment involves the removal of impacted groundwater through mechanical pumping to a surface treatment system. The impacted water is treated to remove site constituents of concern and either discharged under permit to surface, sanitary sewer system, or reinjected into the ground.

Initial capital costs are low, and based on the relatively limited aerial extent of groundwater impacts, reaching remedial goals using this method would be possible. However, this technology alone will not remediate the soil source area which in turn would continue to impact groundwater. In addition, the low water yielding qualities of the overburden may limit the quantity of groundwater that may be removed through using pumping without enhancement.

Vacuum enhanced groundwater extraction utilizes an applied vacuum on the extraction well to increase the yield of the well. An evaluation of this method is completed to determine if groundwater extraction rates may economically be increased with application of a vacuum. The conclusion of this testing is positive and will be summarized in the Remedial Action Plan.

14.0 REMEDIAL ACTION OPTIONS (Continued)

Enhanced Bioremediation

In-situ bioremediation requires the extraction of groundwater and injection of augmented water into an aquifer.

Enhanced bioremediation essentially builds upon extraction and treatment by reinjecting the extracted / treated water after adding nutrients, bacteria and dissolved oxygen. This process enhances the remediation by promoting in-situ bacteria degradation of constituents of concern both in dissolved and sorbed phases. The objective is to significantly shorten the operation and maintenance period of an extraction and treatment only system. The added cost of the bioenhancement can be offset by shorter operation time of the system, and can result in overall remedial savings.

Because of the limited water yielding capabilities of the overburden source area, this technology will be greatly limited and is not considered a viable option for the treatment of the overburden.

Dual Phase Extraction or Soil Vapor Extraction

Dual phase extraction is a process that includes extracting both groundwater and soil vapor continuously from an aquifer. Groundwater extraction through either vacuum drop tubes or submersible pumps is enhanced by a pressure gradient created by a vacuum placed on the well head. In addition to groundwater extraction the vacuum on the well is used to remove petroleum impacts from soil and groundwater by stripping petroleum vapors from these media. Dual phase extraction is best suited for aquifers with low groundwater yield to increase groundwater recovery rates. In addition, soil petroleum impact mass is removed from soils at the same time via the vacuum system.

Where unsaturated soils are the only media of concern Soil Vapor Extraction (SVE) may be employed in a similar manner. A vacuum is placed on the well head of a well screened through impacted unsaturated soils. The vacuum strips sorbed phase VOCs from the soils and extracts them in vapor phase to the surface where the vapors are treated and discharged to the atmosphere. The SVE may also assist with limiting vapor intrusion into building concerns.

Capital costs are high for this type of system but may off-set the time to reach remedial goals, especially if compared with conventional groundwater extraction. Because of the periodically saturated nature of the impacted soils dual phase extraction technology may be considered a remedial option for the site overburden. A feasibility study is required to determine the effectiveness and design parameters for this type of remedial technology. This technology is best employed when direct removal of the source is not possible.

14.0 **REMEDIAL ACTION OPTIONS (Continued)** **Monitored Natural Attenuation (MNA)**

Monitored natural attenuation includes the evaluation of potential degradation factors and indicators in an aquifer such as plume stability, oxygen reduction potential, and the presence of petroleum degrading bacteria. MNA is only viable when no source area is present or only a minor source remains. MNA can be considered only after the source area soil and groundwater is removed. Because the source still exists MNA is not considered at this initial phase of remediation. MNA may be considered in the future after the source area is significantly removed through other forms of remediation.

Air Sparging with SVE

Air sparging includes the injection of compressed air into wells that are located in contaminated areas and are screened below the water table. Air bubbles injected into these wells migrate outward through the aquifer and produce a mass transfer of sorbed and dissolved phase VOC impact into the vapor stream. As the vapor stream, containing VOC, travels toward the surface the vapors are then captured by a soil vapor extraction (SVE) system. Another effect of air sparging is an increase of dissolved oxygen within groundwater that may enhance the environment for petroleum degrading bacteria thus increasing aerobic biodegradation. This technology alone is not appropriate for remediation of unsaturated soils however the SVE used to capture the sparged vapor may be applied to remediated unsaturated soils.

Capital costs are high for this type of system but may off-set the time to reach remedial goals, especially if compared with conventional groundwater extraction. This type of remediation is applicable only if good capture by the SVE is possible thus limiting the sparged vapors from entering the site building. Sparge is not appropriate for sites containing NAPL.

Risk Based Closure

Risk based closure or site specific standard (SSS) includes the identification of soil and groundwater impacts and the current and future risks that the impacts may pose to human health and the environment. Once a risk exposure is identified, a receptor pathway of exposure may be eliminated through institutional or engineering controls. Institutional and engineering controls would be implemented by placing an activity use limitation in the form of an environmental covenant on the property deed that follows through to all property owners requiring controls to limit exposure pathways.

A risk based closure may be obtained in a relatively short period of time and with relatively less capital costs. Risk based closure is a viable option for remediation and would likely entail the elimination of groundwater extraction, restrictions on excavation activities, and soil vapor into building mitigation plans for the existing buildings or for future development. The source property and other impacted properties would require environmental covenants and activity use restrictions.

This form of remediation is currently not considered based on the remedial goals of the site owner.



14.1 Remedial Action Option

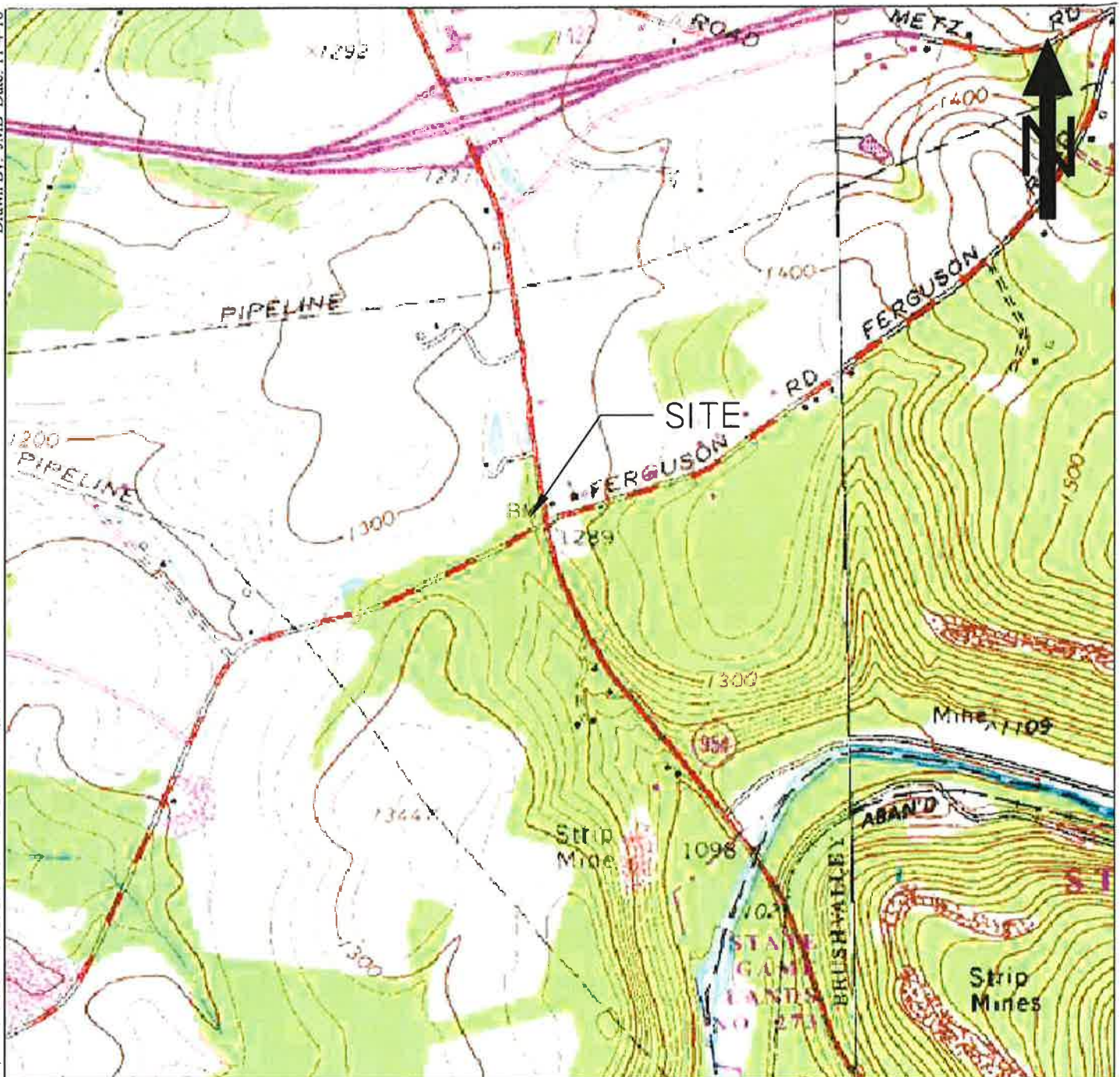
The remedial standard for the site is SHS. The remedial technology that will be proposed in the Remedial Action Plan will include limited soil excavation and disposal combined with vapor enhanced groundwater extraction.

15.0 SCHEDULE

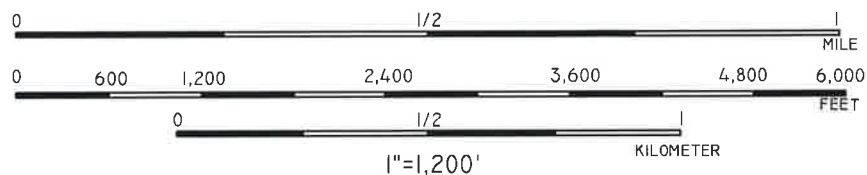
The Remedial Action Plan will be submitted within 45 days of the submittal of this SSCR. Remedial action will be implemented after PADEP approval of the two reports. In addition, quarterly Remedial Action Progress reports will be prepared for the Site summarizing quarterly well sampling and remedial action progress.

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- Pennsylvania Mine Map Atlas Website: <http://www.paminemaps.psu.edu>



Portion of the Indiana, PA U.S.G.S 7.5 Minute Topographic Quadrangle.



Site Coordinates: (40°34'32.97"N & 79° 7'59.25"W)

4644.15.01



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Vennard's

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Indiana, PA

SITE LOCATION MAP

Figure 1



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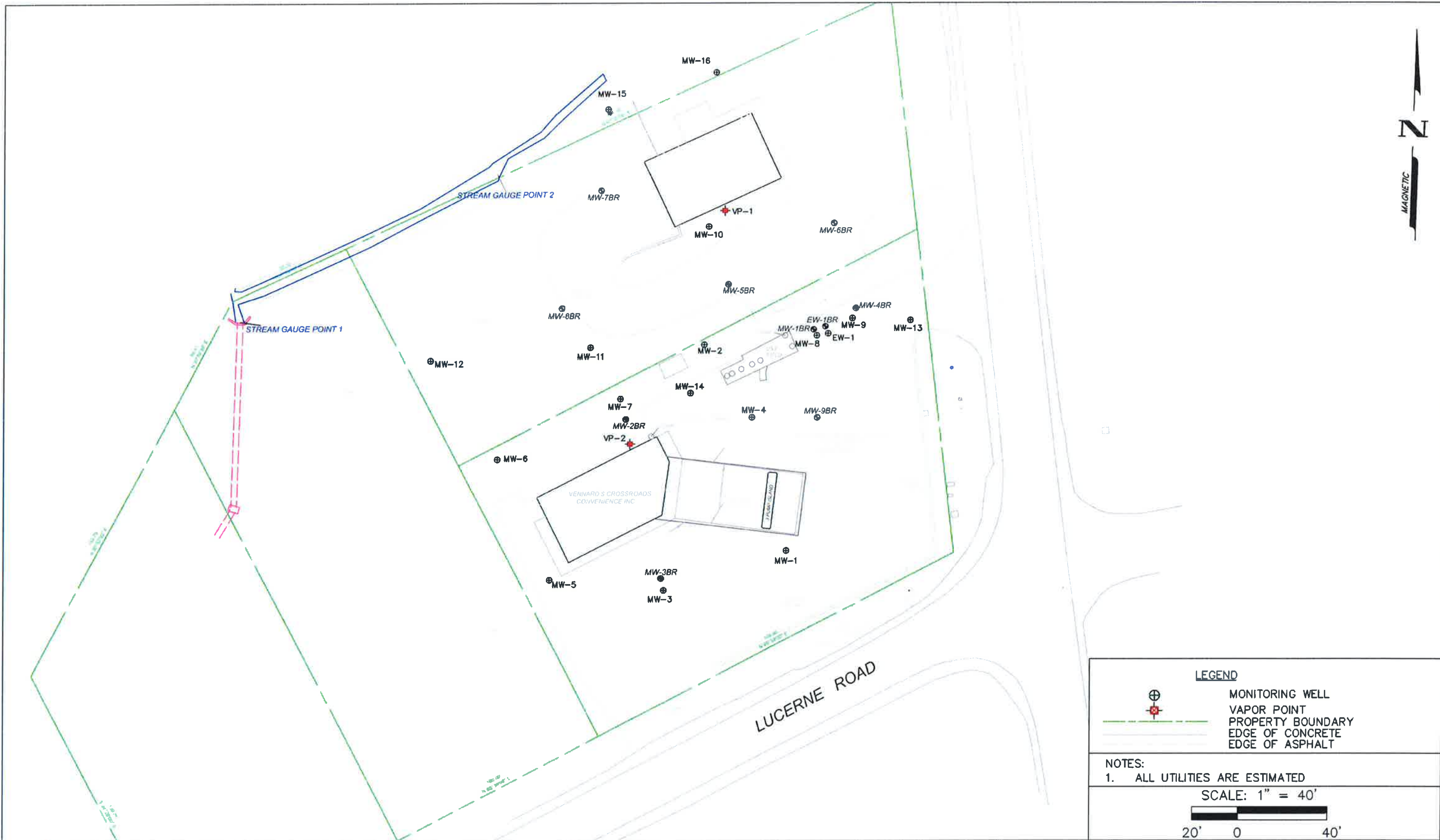
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Submitted By: *mek*
Project Manager: Mike K
Checked By: *mek*

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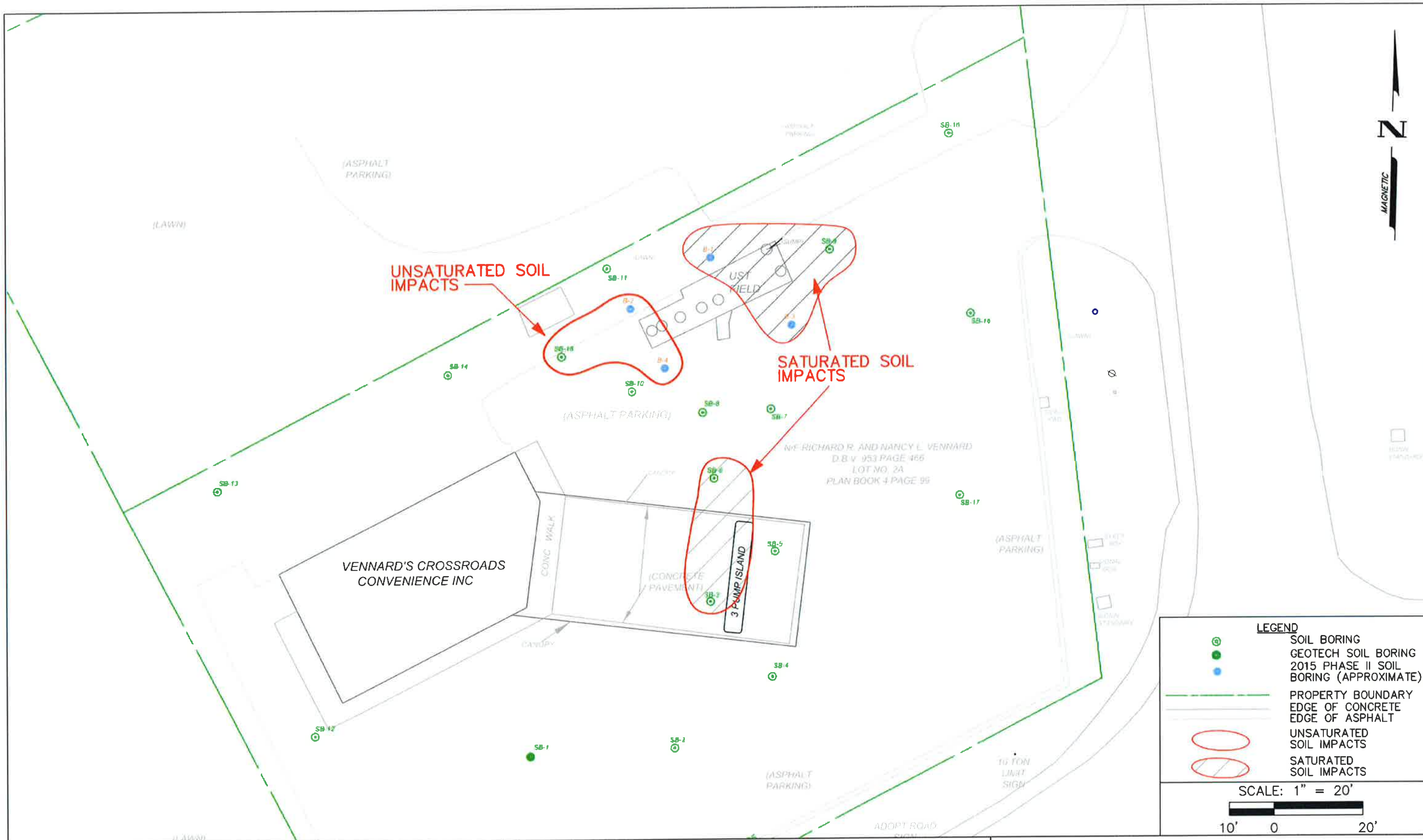
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FIGURES 2016\FIG 2 - AERIAL SITE MAP.DWG

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AERIAL EXPANDED MAP
Figure 2









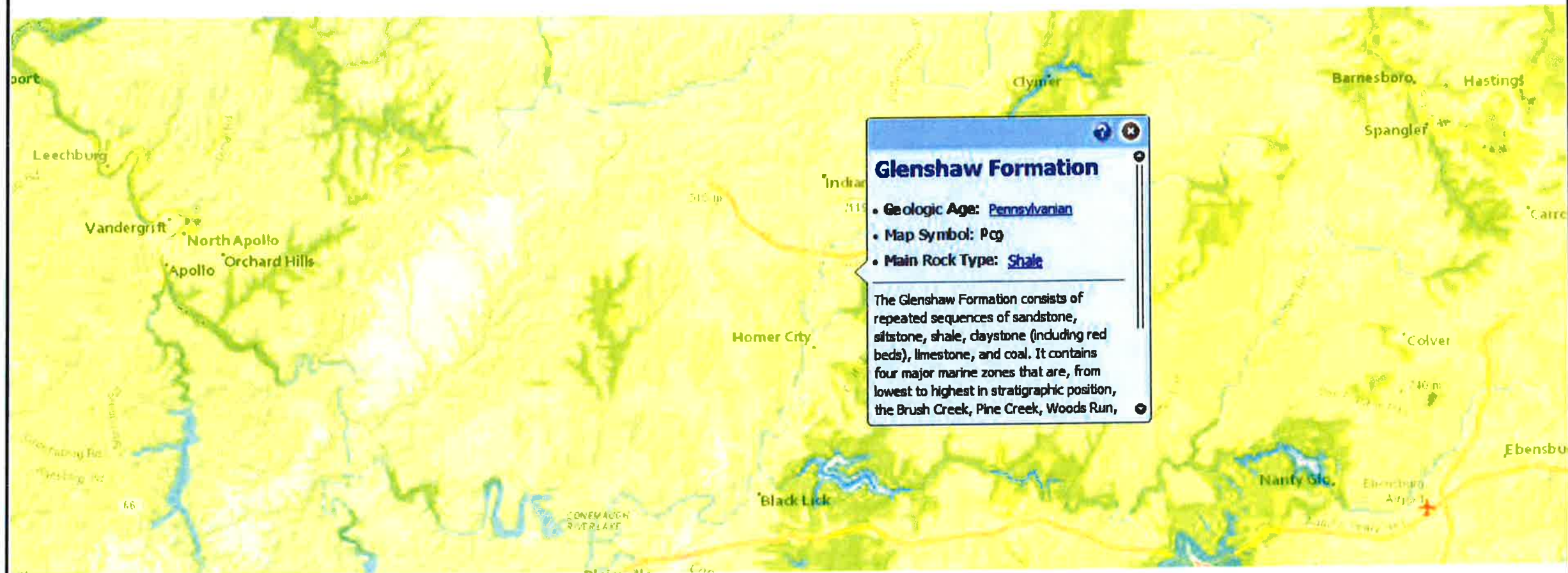
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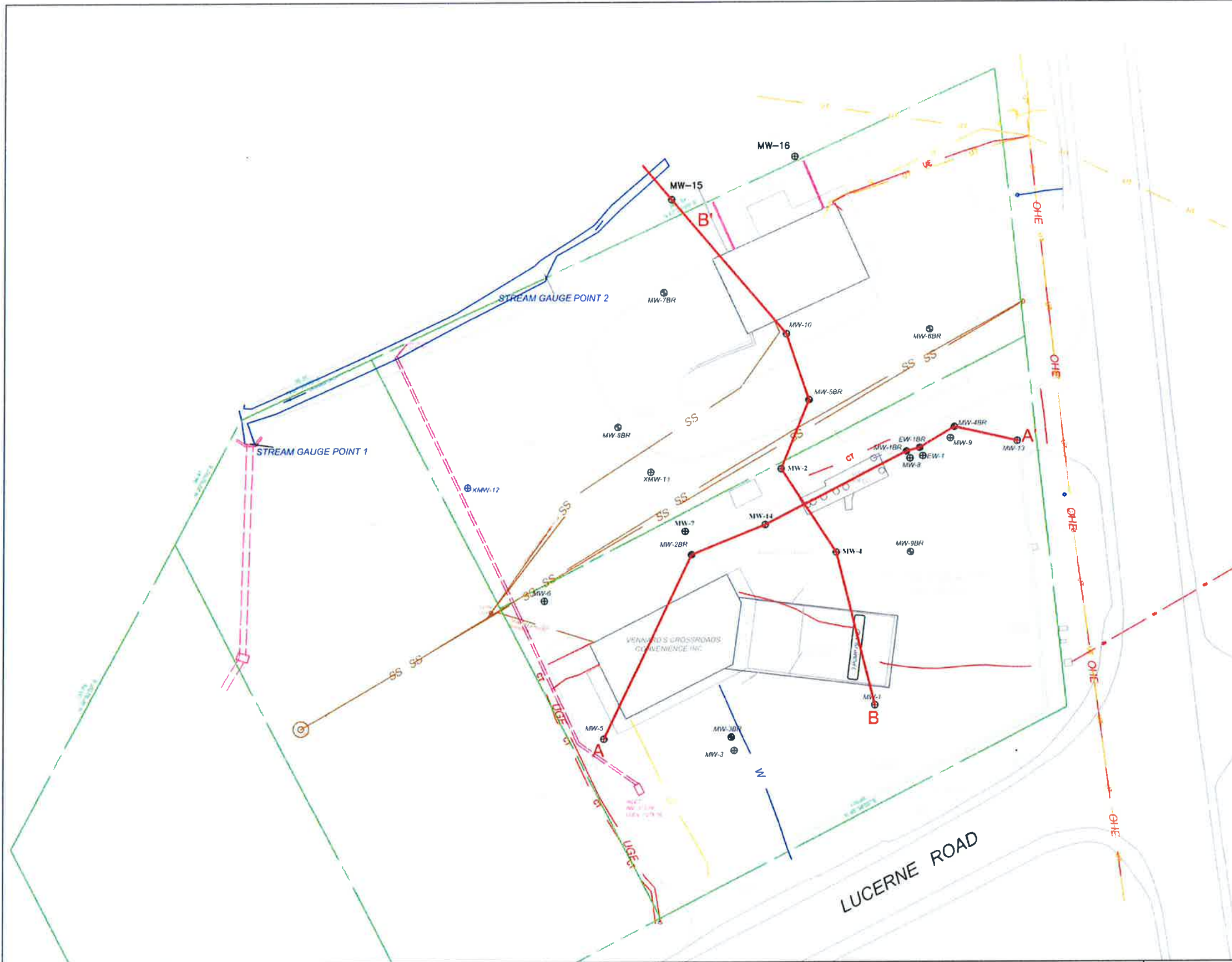
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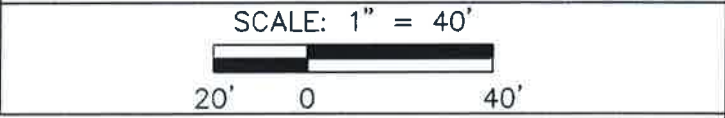
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White Township, Indiana County, PA

**Geology Map
Figure 6**



LEGEND	
	GAS LINE
	WATER LINE
	UNDERGROUND ELECTRIC
	UNDERGROUND COMMUNICATION LINE
	STORM SEWER
	SANITARY SEWER
	PROPERTY BOUNDARY
	EDGE OF CONCRETE
	EDGE OF ASPHALT

NOTES:
1. ALL UTILITIES ARE ESTIMATED



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Project Manager: Mike K
Checked By: MEK

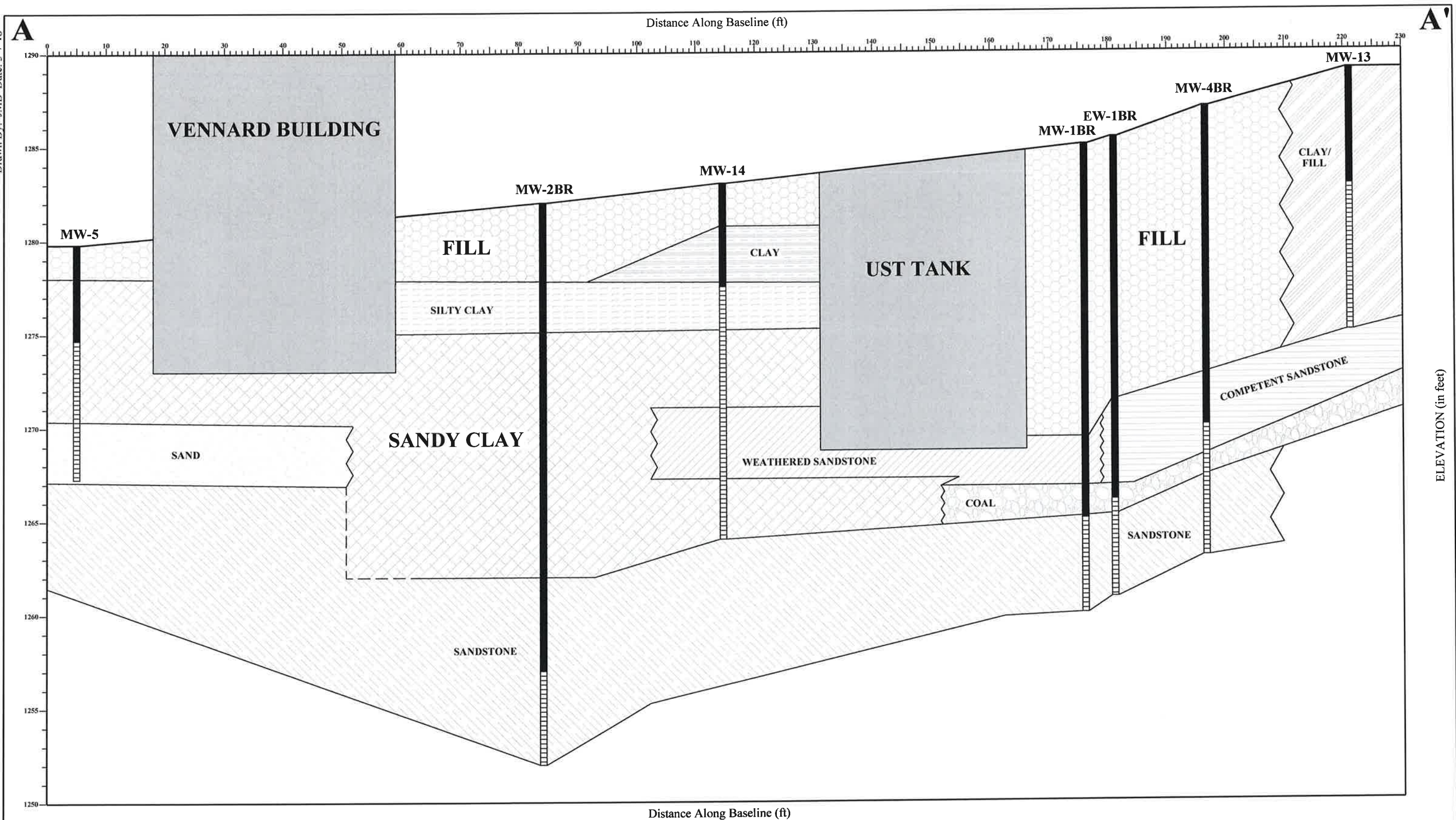
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CROSS SECTION LOCATION MAP
Figure 7













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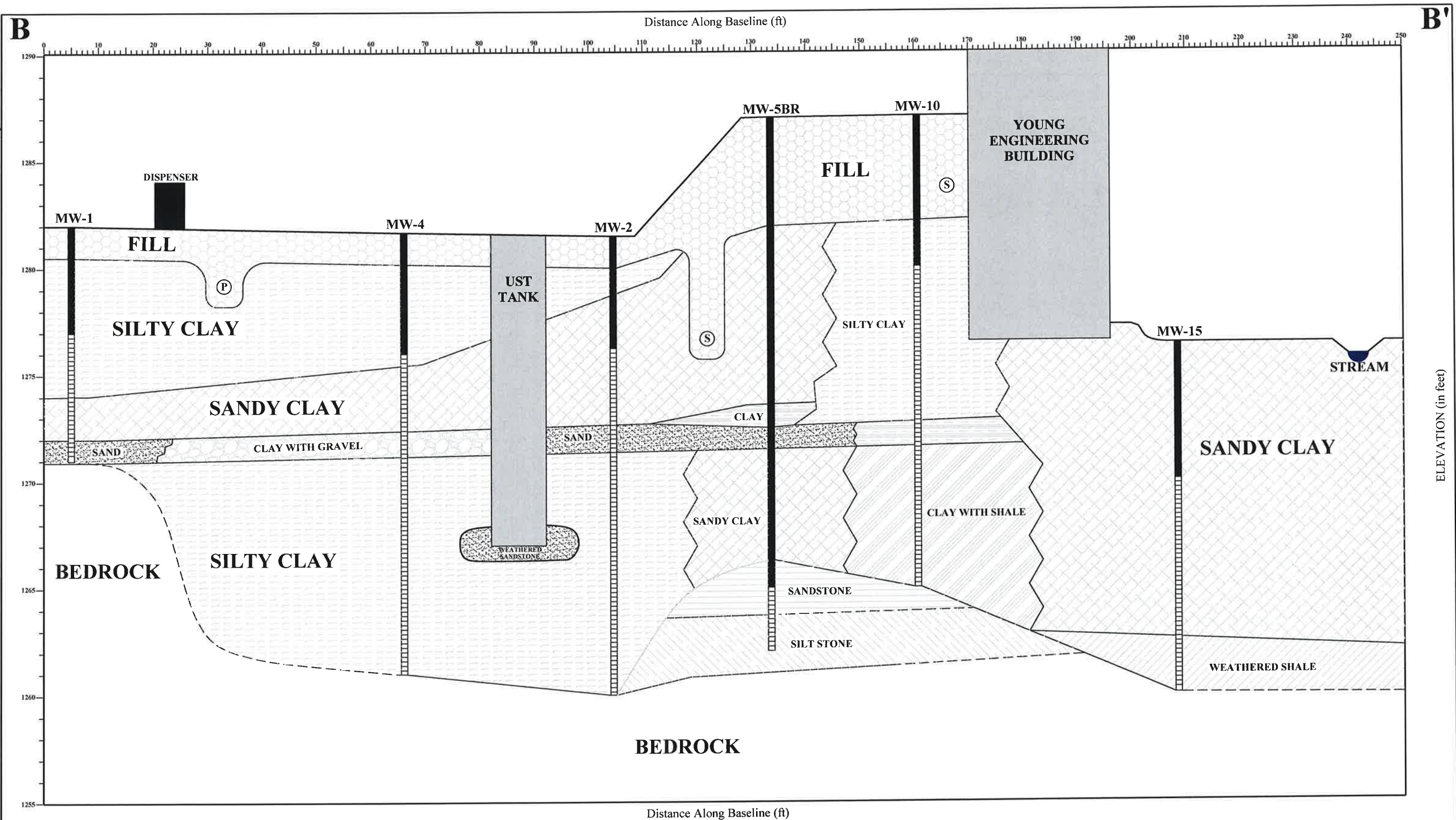
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LEGEND					
	Fill		Sandy Clay		Sand
	Silty Clay		COAL		Sandstone
	Weathered Sandstone		Clay		Competent Sandstone
	Clay with Fill				
<u>Underground Utilities</u>					
Product Line  Sewer Line 					

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CROSS SECTION A-A'
Figure 8













H:\VENNARD'S CROSSROADS CONVENIENCE INC\4644.15.01 - INDIANA, PA\ACAD DWGS\SSCR\FIGURE 9 B-B'.DWG

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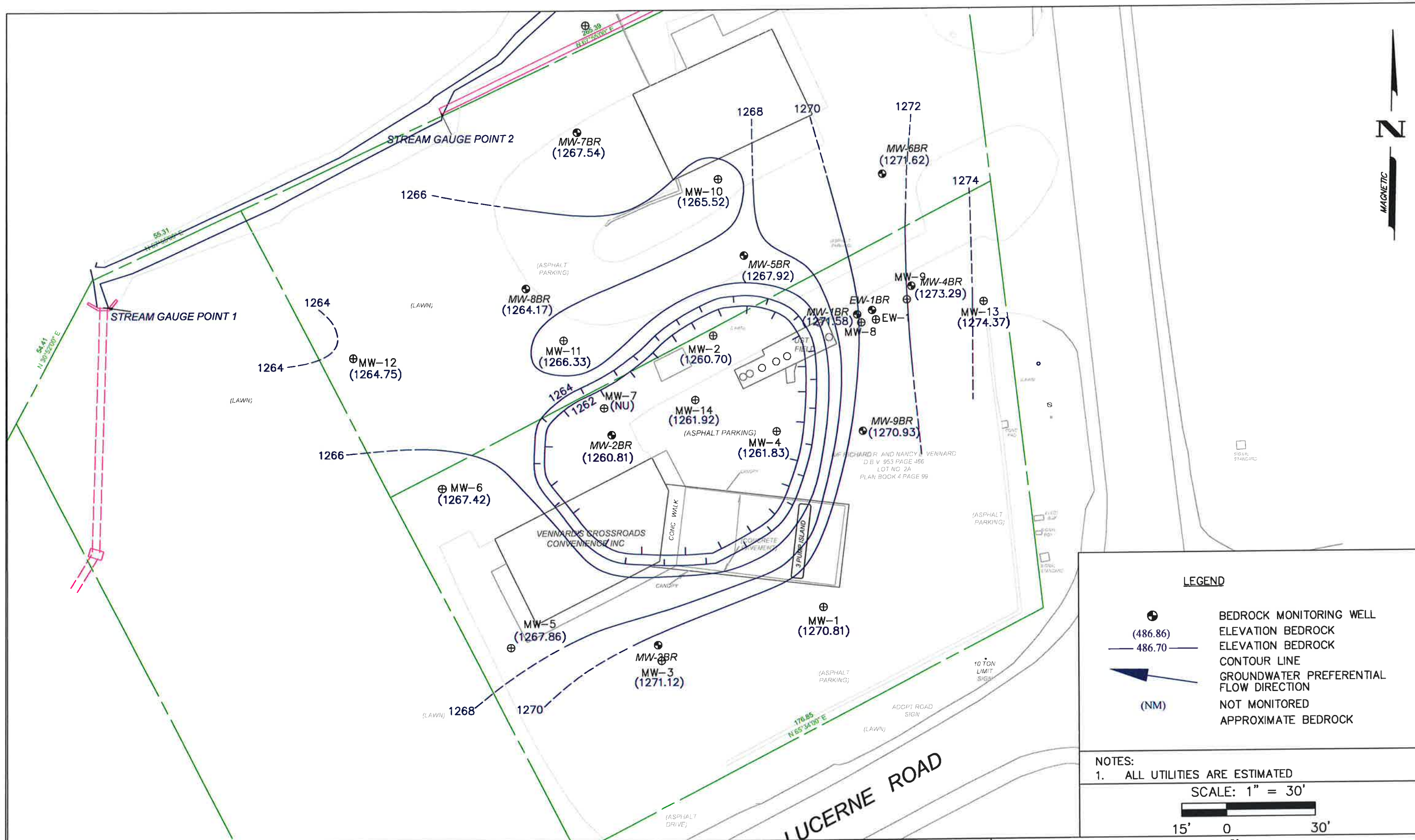


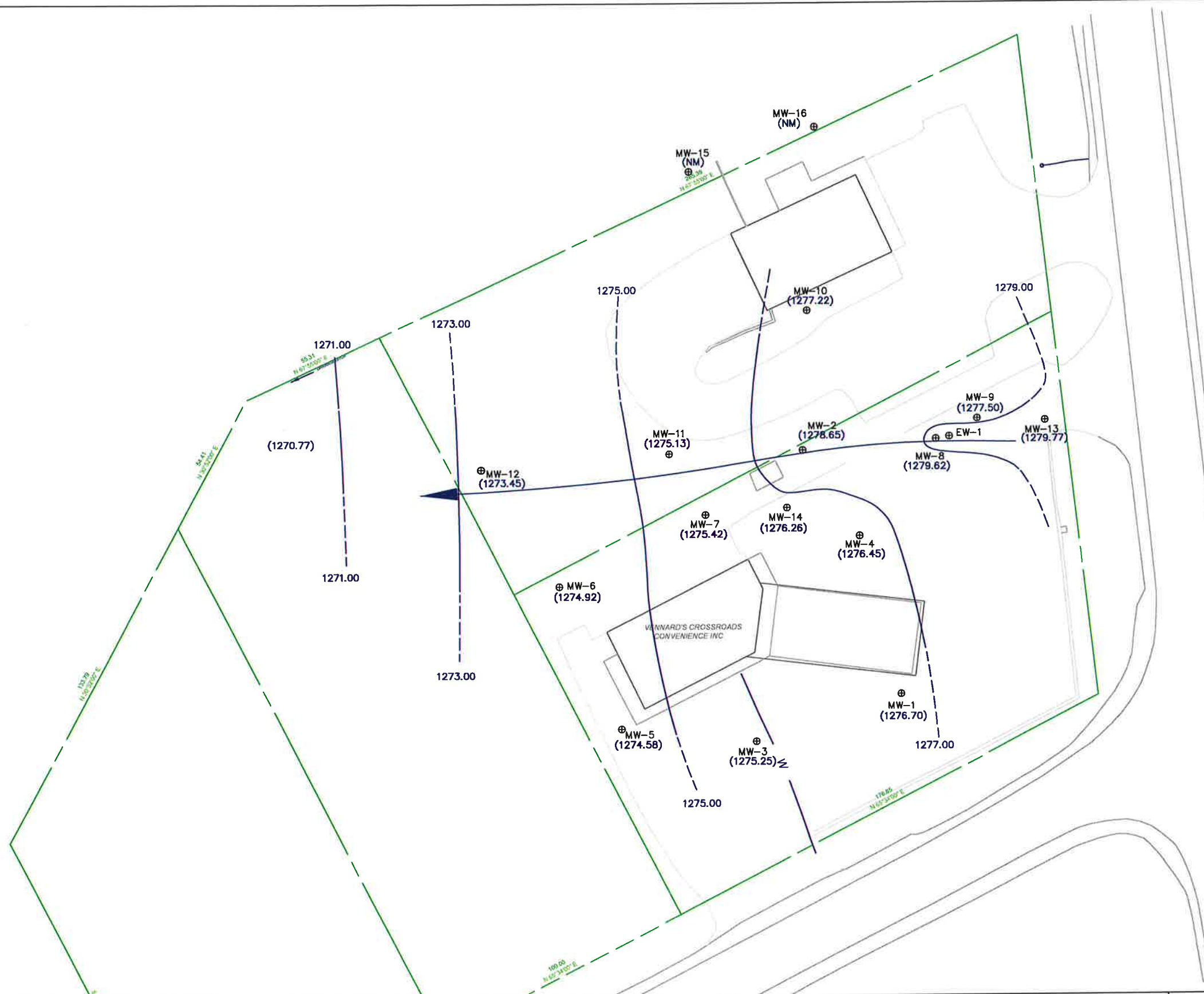
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LEGEND					
	Fill		Sandy Clay		Sand
	Silty Clay		Clay with Gravel		Silt Stone
	Weathered Shale		Clay		Sandstone
	Clay with Shale				
<u>Underground Utilities</u>					
		 Product Line		 Sewer Line	

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CROSS SECTION B-B'
Figure 9





LEGEND

(86.02)	GROUNDWATER ELEVATION
(NM)	NOT MONITORED
85.00	GROUNDWATER ELEVATION
—	CONTOUR LINE
←	APPROXIMATE GROUNDWATER
	GRADIENT DIRECTION
⊕	MONITORING WELL
—	GAS LINE
—	WATER LINE
—	OVERHEAD ELECTRIC
—	UNDERGROUND ELECTRIC
—	OVERHEAD UTILITIES
—	UNDERGROUND COMMUNICATION LINE
—	STORM SEWER
—	SANITARY SEWER
—	PROPERTY BOUNDARY
—	EDGE OF CONCRETE
—	EDGE OF ASPHALT

NOTES:
1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'



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**OVERBURDEN GROUNDWATER ELEVATION
CONTOUR MAP**
March 6, 2018
Figure 11



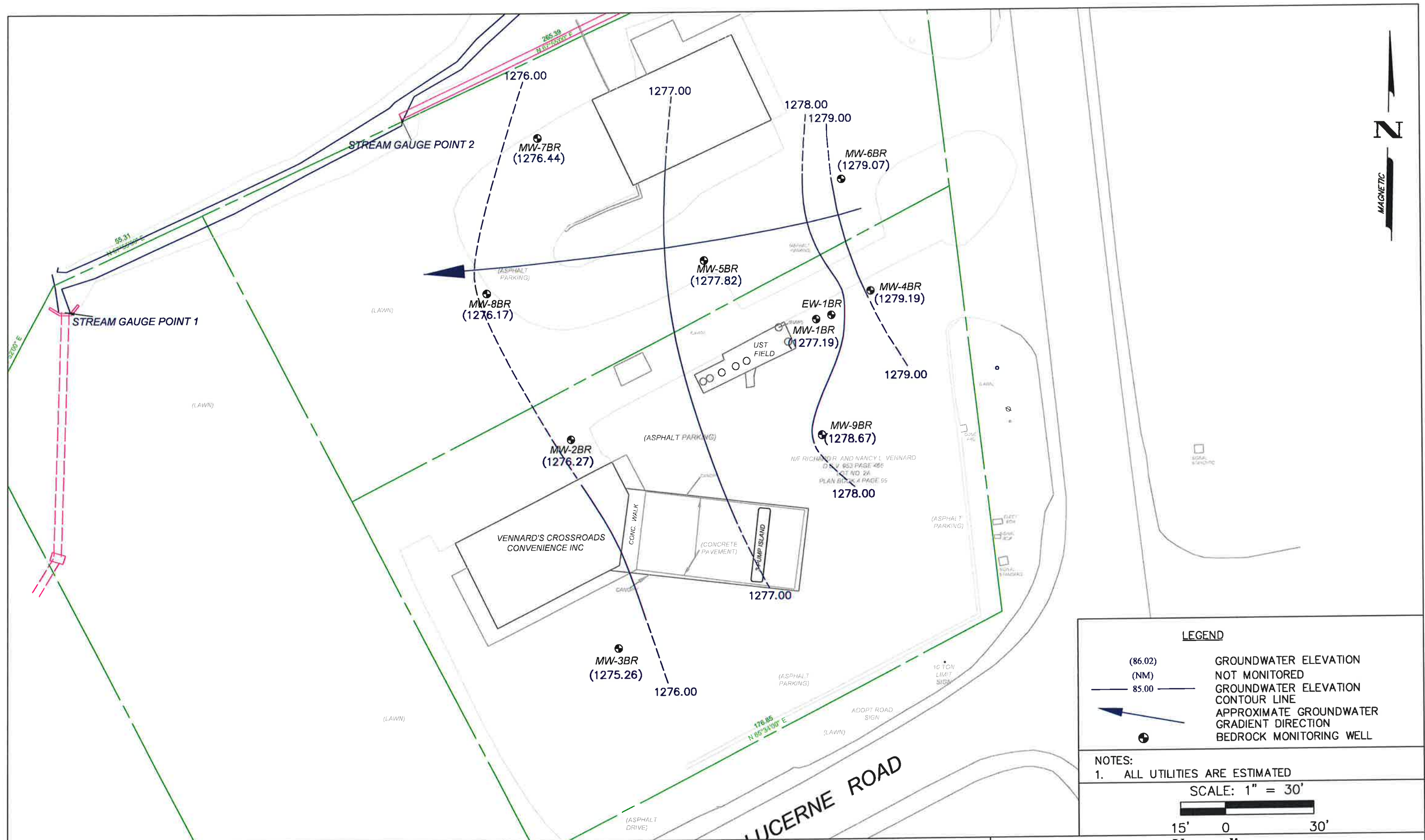
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Project Manager: Mike K
Checked By: *me*

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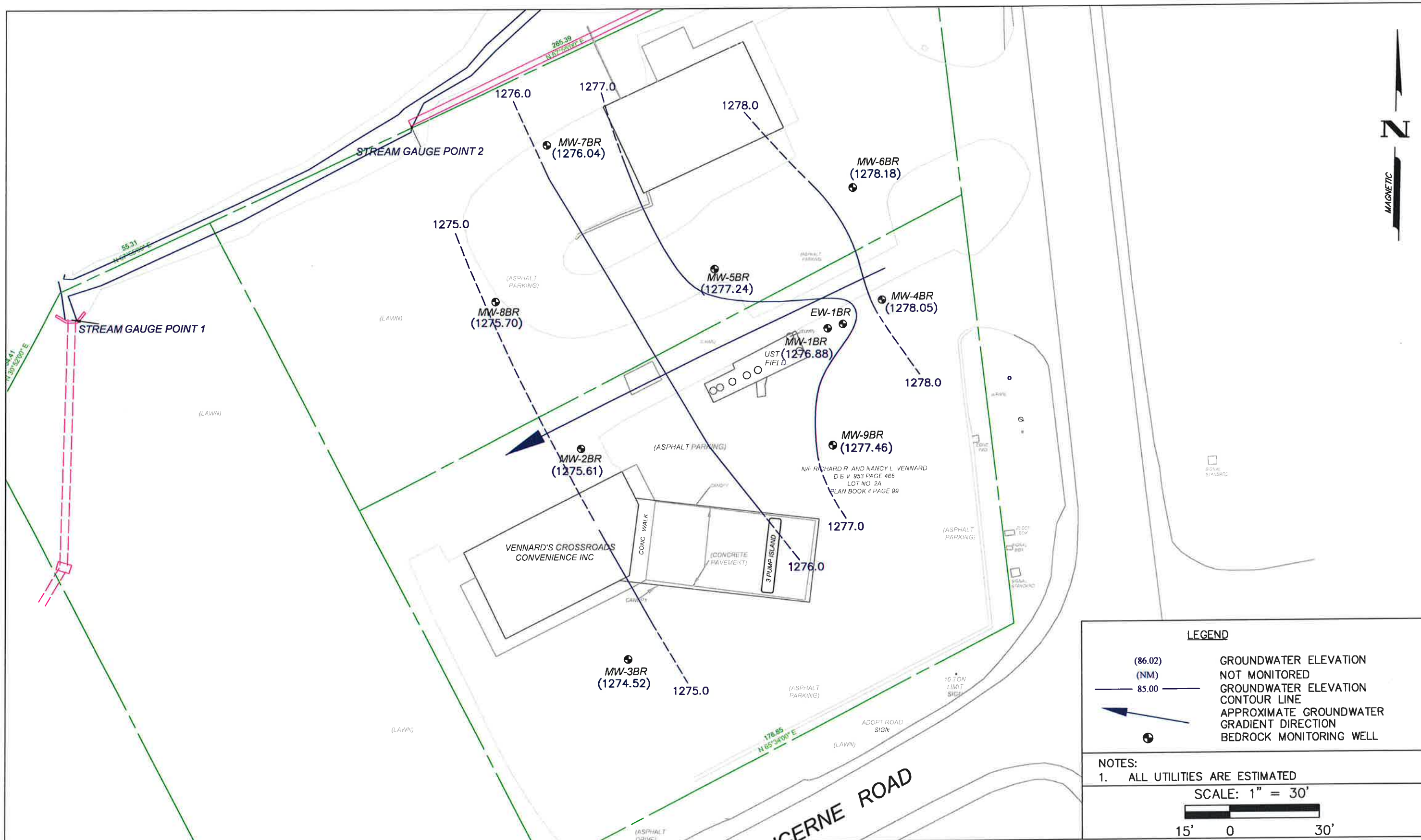
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**BEDROCK GROUNDWATER ELEVATION
CONTOUR MAP**
March 6, 2018
Figure 13



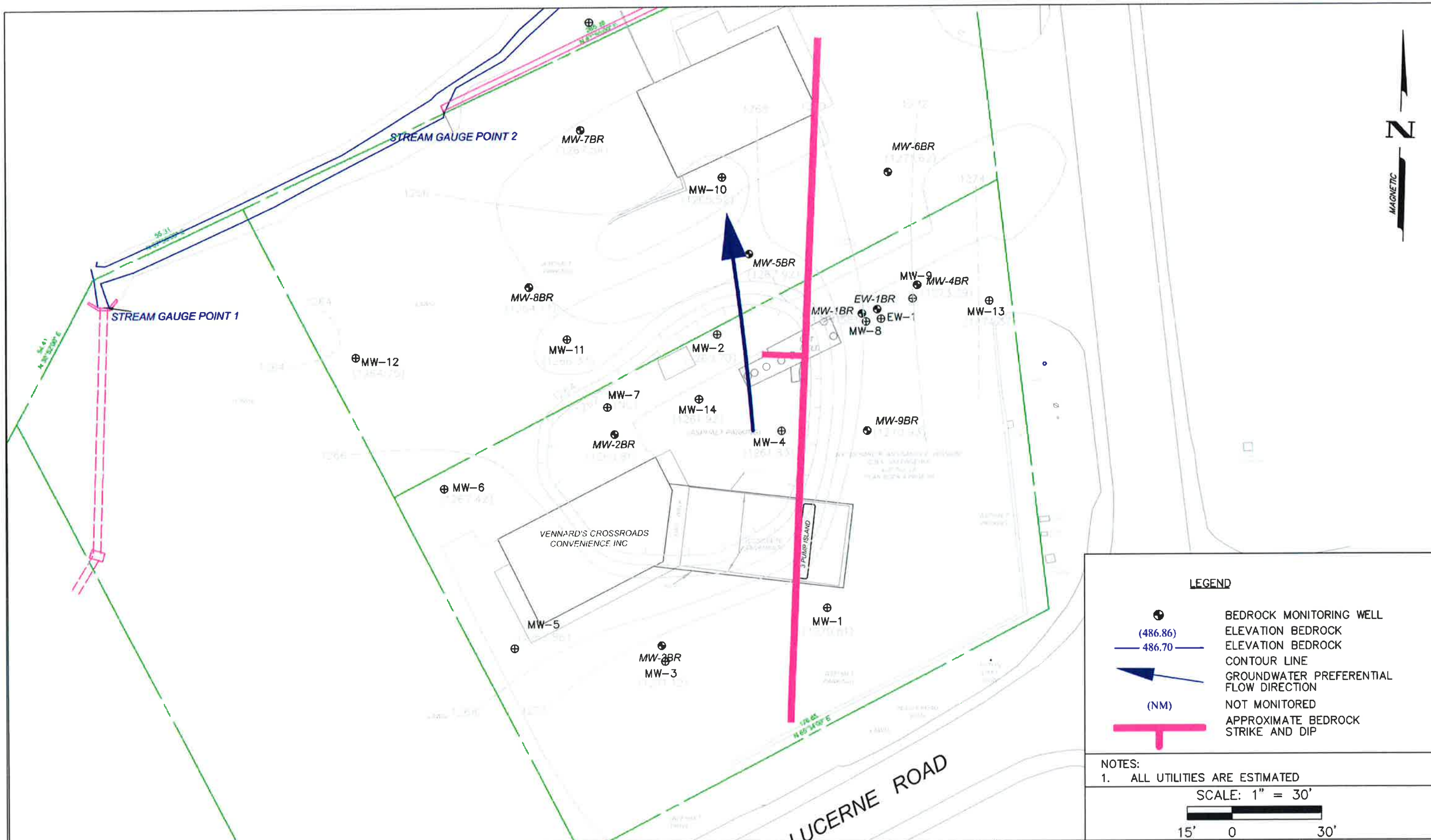
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LEGEND

- BEDROCK MONITORING WELL
- ELEVATION BEDROCK
- ELEVATION BEDROCK
- CONTOUR LINE
- GROUNDWATER PREFERENTIAL FLOW DIRECTION
- (NM) NOT MONITORED
- APPROXIMATE BEDROCK STRIKE AND DIP

NOTES:

1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 30'

15' 0 30'

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Drawn By: JMB 08-30-16
Submitted By: MEK
Project Manager: Mike K
Checked By: MEK

4644.15.01

H:\V\ennard's Crossroads Convenience Inc\4644.15.01 - Indiana, PA\AUTO CAD\base map (01-28-16).dwg

Vennard's

4985 Lucerne Road
Indiana, PA

PREFERENTIAL PATHWAY GROUNDWATER FLOW

Figure 15

TABLE 1
MONITORING WELL CONSTRUCTION SUMMARY
VENNARD'S CROSSROADS
INDIANA, PA

Monitoring Well	Date Drilled	Total Depth (ft)	Casing Size (in) & Material	Slot Size (in) / Screened	Drilling Method	Casing Elevation	Well Type
MW-1	6/23/2016	12.0'	2" PVC	0.020/12-5'	HOLLOW STEM AUGER	1282.81	OVERBURDEN
MW-1BR	3/30/2017	25.0'	2" PVC	0.010/20-25'	HOLLOW STEM AUGER/AIR	1285.58	BEDROCK
MW-2	6/23/2016	22.0'	2" PVC	0.020/21.5-5'	HOLLOW STEM AUGER	1282.70	OVERBURDEN
MW-2BR	11/19/2016	30.0'	2" PVC	0.010/25-30.3'	HOLLOW STEM AUGER/AIR ROTARY	1281.81	BEDROCK
MW-3	7/6/2016	11.0'	2" PVC	0.020/-5-11'	HOLLOW STEM AUGER	1280.96	OVERBURDEN
MW-3BR	11/18/2016	22.0'	2" PVC	0.010/16-22'	HOLLOW STEM AUGER/AIR ROTARY	1281.12	BEDROCK
MW-4	7/6/2016	21.0'	2" PVC	0.020/6-21'	HOLLOW STEM AUGER	1282.83	OVERBURDEN
MW-4BR	3/28/2017	22.0'	2" PVC	0.0020/17-22'	HOLLOW STEM AUGER/AIR ROTARY	1287.29	BEDROCK
MW-5	9/7/2016	12.0'	2" PVC	0.020/5-12'	HOLLOW STEM AUGER	1279.86	OVERBURDEN
MW-5BR	8/23/2017	26.5'	2" PVC	0.010/21.5 - 26.5'	HOLLOW STEM AUGER/AIR ROTARY	1287.92	BEDROCK
MW-6	9/7/2016	11.5'	2" PVC	0.020/5-11.5'	HOLLOW STEM AUGER	1278.92	OVERBURDEN
MW-6BR	2/25/2018	25'	2" PVC	0.020/20-25'	HOLLOW STEM AUGER/AIR ROTARY	1288.62	BEDROCK
MW-7	9/8/2016	13.5'	2" PVC	0.020/4-13.5'	HOLLOW STEM AUGER	1281.55	OVERBURDEN
MW-7BR	2/1/2018	26'	2" PVC	0.020/15.5-25'	HOLLOW STEM AUGER/AIR ROTARY	1277.54	BEDROCK
MW-8	9/8/2016	11.5'	2" PVC	0.020/4-11.5'	HOLLOW STEM AUGER	1285.53	OVERBURDEN
MW-8BR	1/31/2018	28.5'	2" PVC	0.020/23.5 - 28.5'	HOLLOW STEM AUGER/AIR ROTARY	1280.67	BEDROCK
MW-9	3/29/2017	13.5'	2" PVC	0.020/5-13.5'	HOLLOW STEM AUGER	1286.85	OVERBURDEN
MW-9BR	3/5/2018	21'	2" PVC	0.020/15-21'	HOLLOW STEM AUGER/AIR ROTARY	1284.43	BEDROCK
MW-10	1/30/2018	22'	2" PVC	0.020/7-22'	HOLLOW STEM AUGER	1287.52	OVERBURDEN
MW-11	8/24/2017	14.5'	2" PVC	0.010/3 - 14.5'	HOLLOW STEM AUGER	1280.83	OVERBURDEN
MW-12	8/24/2017	11'	2" PVC	0.010/3 - 11'	HOLLOW STEM AUGER	1275.75	OVERBURDEN
MW-13	3/2/2018	14.5'	2" PVC	0.020/5 - 14.5'	HOLLOW STEM AUGER	1288.87	OVERBURDEN
MW-14	3/2/2018	20.5'	4" PVC	0.020/5-20.5'	HOLLOW STEM AUGER	1282.42	OVERBURDEN
MW-15	4/24/2018	17.0'	2" PVC	0.010/5-17'	HOLLOW STEM AUGER	1276.58	OVERBURDEN
MW-16	4/23/2018	7.0'	2" PVC	0.010/4-7'	HOLLOW STEM AUGER	1288.40	OVERBURDEN
EW-1	3/29/2017	14.0'	2" PVC	0.020/9-14'	HOLLOW STEM AUGER	1285.98	OVERBURDEN
EW-1BR	3/30/2017	25.0'	2" PVC	0.010/20-25'	HOLLOW STEM AUGER/AIR ROTARY	1285.99	BEDROCK

TABLE 2

HISTORICAL GROUNDWATER ELEVATIONS

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
MW-1	7/27/2016	11.03	-	0	1282.81	-	1271.78	
	8/18/2016	9.45	-	0	1282.81	-	1273.36	
	10/4/2016	10.09	-	0	1282.81	-	1272.72	
	10/31/2016	7.91	-	0	1282.81	-	1274.90	
	1/12/2017	7.72	-	0	1282.81	-	1275.09	
	5/1/2017	8.07	-	0	1282.81	-	1274.71	
	6/22/2017	7.64	-	0	1282.81	-	1275.17	
	8/14/2017	9.33	-	0	1282.81	-	1273.48	
	9/21/2017	8.97	-	0	1282.81	-	1273.84	
	3/6/2018	6.11	-	0	1282.81	-	1276.70	
	3/22/2018	8.31	-	0	1282.81	-	1274.50	
	5/9/2018	8.10	-	0	1282.81	-	1274.71	
	5/24/2018	7.44	-	0	1282.81	-	1275.37	
MW-2	7/27/2016	9.85	-	0	1282.64	-	1272.79	
	8/18/2016	9.25	-	0	1282.64	-	1273.39	
	10/4/2016	9.01	-	0	1282.64	-	1273.63	
	10/31/2016	6.95	-	0	1282.64	-	1275.69	
	1/12/2017	6.73	-	0	1282.64	-	1275.91	
	5/1/2017	8.16	7.56	0.60	1282.70	0.00	1282.70	product and thickness estimated from bailer
	5/23/2017	8.27	7.96	0.31	1282.70	8.03	1274.67	
	6/22/2017	6.65	6.5	0.15	1282.70	6.53	1276.17	
	6/28/2017	5.91	5.79	0.12	1282.70	5.82	1276.88	
	8/14/2017	8.65	-	0.00	1282.70	-	1274.05	
	9/21/2017	8.16	-	0.00	1282.70	-	1274.54	
	3/6/2018	4.05	-	0.00	1282.70	-	1278.65	Sheen/Odor
	3/22/2018	7.94	7.84	0.10	1282.70	7.86	1274.84	
	5/24/2018	6.97	6.52	0.08	1282.70	6.91	1275.79	Product in well
MW-3	7/27/2016	9.66	-	0	1280.96	-	1271.30	
	8/18/2016	8.25	-	0	1280.96	-	1272.71	
	10/4/2016	8.89	-	0	1280.96	-	1272.07	
	10/31/2016	7.10	-	0	1280.96	-	1273.86	
	1/12/2017	10.82	-	0	1280.96	-	1270.14	
	5/1/2017	7.13	-	0	1280.96	-	1273.83	
	6/22/2017	NM	-	0	1280.96	-	NM	
	8/14/2017	8.26	-	0	1280.96	-	1272.70	
	9/21/2017	8.11	-	0	1280.96	-	1272.85	
	3/6/2018	5.71	-	0	1280.96	-	1275.25	
	3/22/2018	7.55	-	0	1280.96	-	1273.41	
	5/9/2018	7.35	-	0	1280.96	-	1273.61	
	5/24/2018	6.68	-	0	1280.96	-	1274.28	
MW-4	7/27/2016	10.47	-	0	1282.83	-	1272.36	
	8/18/2016	8.39	-	0	1282.83	-	1274.44	
	10/4/2016	9.76	-	0	1282.83	-	1273.07	
	10/31/2016	7.60	-	0	1282.83	-	1275.23	
	1/12/2017	7.43	-	0	1282.83	-	1275.40	
	5/1/2017	7.70	-	0	1282.83	-	1275.13	
	5/23/2017	8.45	-	0	1282.83	-	1274.38	
	6/22/2017	7.84	-	0	1282.83	-	1274.99	
	8/14/2017	8.95	-	0	1282.83	-	1273.88	
	9/21/2017	8.70	-	0	1282.83	-	1274.13	
	3/6/2018	6.38	-	0	1282.83	-	1276.45	
	3/21/2016	8.30	-	0	1282.83	-	1274.53	
	5/9/2018	7.10	-	0	1282.83	-	1275.73	
	5/24/2018	7.20	-	0	1282.83	-	1275.63	Sheen/Odor

TABLE 2

HISTORICAL GROUNDWATER ELEVATIONS

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
MW-5	9/19/2016	8.18	-	0	1279.88	-	1271.70	
	10/4/2016	7.82	-	0	1279.88	-	1272.06	
	10/31/2016	6.20	-	0	1279.88	-	1273.68	
	1/12/2017	5.71	-	0	1279.88	-	1274.17	
	5/1/2017	6.28	-	0	1279.86	-	1273.58	
	6/22/2017	5.80	-	0	1279.86	-	1274.06	
	8/14/2017	7.40	-	0	1279.86	-	1272.46	
	9/21/2017	7.17	-	0	1279.86	-	1272.69	
	3/6/2018	5.28	-	0	1279.86	-	1274.58	
	3/21/2018	6.88	-	0	1279.86	-	1272.98	
	5/9/2018	6.64	-	0	1279.86	-	1273.22	
	5/24/2018	5.60	-	0	1279.86	-	1274.26	
MW-6	9/19/2016	6.67	-	0	1278.91	-	1272.24	
	10/4/2016	6.36	-	0	1278.91	-	1272.55	
	10/31/2016	5.00	-	0	1278.91	-	1273.91	
	1/12/2017	4.91	-	0	1278.91	-	1274.00	
	5/1/2017	5.32	-	0	1278.92	-	1273.60	
	6/22/2017	4.59	-	0	1278.92	-	1274.33	
	8/14/2017	6.18	-	0	1278.92	-	1272.74	
	9/21/2017	5.75	-	0	1278.92	-	1273.17	
	3/6/2018	4.00	-	0	1278.92	-	1274.92	
	3/22/2018	5.62	-	0	1278.92	-	1273.30	
	5/9/2018	5.40	-	0	1278.92	-	1273.52	
	5/24/2018	4.91	-	0	1278.92	-	1274.01	
MW-7	9/19/2016	8.60	-	0	1281.56	-	1272.96	No Odor
	10/4/2016	8.63	-	0	1281.56	-	1272.93	
	10/31/2016	7.16	-	0	1281.56	-	1274.40	
	1/12/2017	7.09	-	0	1281.56	-	1274.47	
	5/1/2017	7.71	-	0	1281.55	-	1273.84	
	5/23/2017	7.88	-	0	1281.55	-	1273.67	
	6/22/2017	7.53	-	0	1281.55	-	1274.02	
	8/14/2017	8.10	-	0	1281.55	-	1273.45	
	9/21/2017	7.91	-	0	1281.55	-	1273.64	
	3/6/2018	6.13	-	0	1281.55	-	1275.42	
	3/22/2018	7.72	-	0	1281.55	-	1273.83	
	5/9/2018	7.61	-	0	1281.55	-	1273.94	
	5/24/2018	6.97	-	0	1281.55	-	1274.58	
MW-8	9/19/2016	10.13	-	0	1285.45	-	1275.32	
	10/4/2016	10.61	-	0	1285.45	-	1274.84	
	10/31/2016	7.41	-	0	1285.45	-	1278.04	
	1/12/2017	7.05	-	0	1285.45	-	1278.40	
	5/1/2017	8.05	-	0	1285.53	-	1277.48	
	5/23/2017	9.80	-	0	1285.53	-	1275.73	
	6/22/2017	7.01	-	0	1285.53	-	1278.52	
	8/14/2017	9.73	-	0	1285.53	-	1275.80	
	9/21/2017	9.71	-	0	1285.53	-	1275.82	
	3/6/2018	5.91	-	0	1285.53	-	1279.62	
	3/21/2018	8.80	-	0	1285.53	-	1276.73	
	5/24/2018	6.97	-	0	1285.53	-	1278.56	
MW-9	4/17/2017	9.00	-	0	1286.22	-	1277.22	
	5/1/2017	9.50	-	0	1286.85	-	1277.35	
	6/22/2017	8.33	-	0	1286.85	-	1286.85	
	8/14/2017	11.70	-	0	1286.85	-	1275.15	
	9/21/2017	11.20	-	0	1286.85	-	1275.65	
	3/6/2018	9.35	-	0	1286.85	-	1277.50	
	3/21/2018	10.72	-	0	1286.85	-	1276.13	
	5/24/2018	9.41	-	0	1286.85	-	1277.44	

TABLE 2

HISTORICAL GROUNDWATER ELEVATIONS

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
MW-10	3/6/2018	10.30		0	1287.52		1277.22	Odor
	3/22/2018	12.10		0	1287.52		1275.42	
	5/9/2018	11.80		0	1287.52		1275.72	
	5/24/2018	10.80		0	1287.52		1276.72	
MW-11	9/8/2017	7.30	-	0	1280.63	-	1273.33	
	9/21/2017	6.97	-	0	1280.63	-	1273.66	
	3/6/2018	5.50	-	0	1280.63	-	1275.13	
	3/22/2018	6.81	-	0	1280.63	-	1273.82	
	5/9/2018	6.69	-	0	1280.63	-	1273.94	
	5/24/2018	6.20	-	0	1274.43	-	1268.23	
MW-12	9/8/2017	2.95	-	0	1275.75	-	1272.80	
	9/21/2017	2.92	-	0	1275.75	-	1272.83	
	3/6/2018	2.30	-	0	1275.75	-	1273.45	
	3/22/2018	2.58	-	0	1275.75	-	1273.17	
	5/9/2018	2.31	-	0	1275.75	-	1273.44	
	5/24/2018	2.28	-	0	1275.75	-	1273.47	
MW-13	3/6/2018	9.10	-	0	1288.87	-	1279.77	
	3/22/2018	12.60	-	0	1288.87	-	1276.27	
	5/9/2018	12.20	-	0	1288.87	-	1276.67	
	5/24/2018	9.96	-	0	1288.87	-	1278.91	
MW-14	3/6/2018	6.16	-	0	1282.42	-	1276.26	Slight Odor
	3/22/2018	7.92	-	0	1282.42	-	1274.50	
	5/24/2018	7.10	-	0	1282.42	-	1275.32	
MW-15	5/9/2018	2.70	-	0	1276.58	-	1273.88	
	5/24/2018	1.25	-	0	1276.58	-	1275.33	
			-	0		-		
MW-16	5/9/2018	12.85	-	0	1288.4	-	1275.55	
	5/24/2018	12.00	-	0	1288.4	-	1276.40	
			-	0		-		
MW-1BR	11/25/2016	11.50	-	0	1285.50	-	1274.00	
	1/12/2017	9.11	-	0	1285.50	-	1276.39	
	5/1/2017	9.25	-	0	1285.50	-	1276.25	
	6/22/2017	9.47	-	0	1285.50	-	1276.03	
	8/14/2017	10.52	-	0	1285.58	-	1275.06	
	9/21/2017	11.30	-	0	1285.58	-	1274.28	
	3/6/2018	8.39	-	0	1285.58	-	1277.19	
	3/21/2018	9.70	-	0	1285.58	-	1275.88	
	5/9/2018	9.14	-	0	1285.58	-	1276.44	
	5/24/2018	8.70	-	0	1285.58	-	1276.88	
MW-2BR	11/25/2016	8.31	-	0	1281.82	-	1273.51	Odor/Sheen
	1/12/2017	6.23	-	0	1281.82	-	1275.59	
	5/1/2017	6.75	-	0	1281.82	-	1275.07	
	6/22/2017	6.83	-	0	1281.82	-	1274.99	
	8/14/2017	8.10	-	0	1281.81	-	1273.71	
	9/21/2017	7.81	-	0	1281.81	-	1274.00	
	3/6/2018	5.54	-	0	1281.81	-	1276.27	
	5/9/2018	7.10	-	0	1281.81	-	1274.71	
	5/24/2018	6.20	-	0	1281.81	-	1275.61	
			-	0		-		

TABLE 2

HISTORICAL GROUNDWATER ELEVATIONS

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA COUNTY, PA

Well ID	Date Measured	Static Water Level (ft)	Depth to Product (ft)	Product Thickness (ft)	Casing Elevation (ft)	Product Adjusted Static Water Level (ft)	Ground Water Elevation (ft)	Comments
MW-3BR	11/25/2016	8.85	-	0	1281.13	-	1272.28	
	1/12/2017	6.50	-	0	1281.13	-	1274.63	
	5/1/2017	7.23	-	0	1281.13	-	1273.90	
	6/22/2017	NM	-	0	1281.13	-	NM	
	8/14/2017	8.40	-	0	1281.12	-	1272.72	
	9/21/2017	8.25	-	0	1281.12	-	1272.87	
	3/6/2018	5.86	-	0	1281.12	-	1275.26	
	3/21/2018	7.77	-	0	1281.12	-	1273.35	
	5/9/2018	7.61	-	0	1281.12	-	1273.51	
MW-4BR	5/24/2018	6.60	-	0	1281.12	-	1274.52	
	4/17/2017	9.90	-	0	1286.13	-	1276.23	
	5/1/2017	10.20	-	0	1286.13	-	1275.93	
	6/22/2017	9.40	-	0	1286.13	-	1276.73	
	8/14/2017	12.43	-	0	1287.29	-	1274.86	
	9/21/2017	11.75	-	0	1287.29	-	1275.54	
	3/6/2018	8.10	-	0	1287.29	-	1279.19	
	3/21/2018	11.20	-	0	1287.29	-	1276.09	
	5/9/2018	10.55	-	0	1287.29	-	1276.74	
MW-5BR	5/24/2018	9.24	-	0	1287.29	-	1278.05	Odor
	9/8/2017	13.40	-	0	1287.92	-	1274.52	
	9/21/2017	12.83	-	0	1287.92	-	1275.09	
	3/6/2018	10.10	-	0	1287.92	-	1277.82	
	3/22/2018	12.18	-	0	1287.92	-	1275.74	
MW-6BR	5/24/2018	10.68	-	0	1287.92	-	1277.24	
	3/6/2018	9.55	-	0	1288.62	-	1279.07	
	3/22/2018	11.61	-	0	1288.62	-	1277.01	
	5/9/2018	12.40	-	0	1288.62	-	1276.22	
MW-7BR	5/24/2018	10.44	-	0	1288.62	-	1278.18	
	3/6/2018	1.10	-	0	1277.54	-	1276.44	
	3/22/2018	2.63	-	0	1277.54	-	1274.91	
	5/9/2018	2.45	-	0	1277.54	-	1275.09	
MW-8BR	5/24/2018	1.50	-	0	1277.54	-	1276.04	
	3/6/2018	4.50	-	0	1280.67	-	1276.17	
	3/22/2018	6.13	-	0	1280.67	-	1274.54	
	5/9/2018	6.05	-	0	1280.67	-	1274.62	
MW-9BR	5/24/2018	4.97	-	0	1280.67	-	1275.70	
	3/6/2018	5.76	-	0	1284.43	-	1278.67	
	3/22/2018	8.93	-	0	1284.43	-	1275.50	
	5/24/2018	6.97	-	0	1284.43	-	1277.46	
EW-1	4/17/2017	8.10	-	0	1285.88	-	1277.78	Strong Odor
	5/1/2017	8.66	-	0	1285.98	-	1277.32	
	5/23/2017	10.29	-	0	1285.98	-	1275.69	
	6/22/2017	7.55	-	0	1285.98	-	1278.43	
	8/14/2017	10.91	-	0	1285.98	-	1275.07	Odor/Sheen
	3/6/2018	6.21	-	0	1285.98	-	1279.77	
	3/22/2018	9.75	-	0	1285.98	-	1276.23	
	5/24/2018	7.65	-	0	1285.98	-	1278.33	
EW-1BR	4/17/2017	8.80	-	0	1285.94	-	1277.14	Odor
	5/1/2017	9.22	-	0	1285.99	-	1276.77	
	6/22/2017	8.19	-	0	1285.99	-	1277.80	Very slight odor
	8/14/2017	11.11	-	0	1285.99	-	1274.88	
	5/24/2018	7.82	-	0	1285.99	-	1278.17	

HISTORICAL GROUNDWATER ELEVATIONS

VENNARD'S CROSSROADS CONVENIENCE, INC INDIANA, INDIANA COUNTY, PA

SWL* = SWL corrected to compensate for the presence of free product: $SWL^* = SWL - (PT \cdot 0.78)$
Where PT = product thickness and 0.78 is the average density of petroleum hydrocarbons.

Checked By: AWK 7/5/2018

Table 3

SOIL SAMPLE ANALYTICAL SUMMARY

VENNARD'S CROSSROADS CONVENIENCE INC.
INDIANA, INDIANA COUNTY, PA

PADEP Non-Residential Medium Specific Concentration (MSC) [ug/Kg]											
Saturated Soil to Groundwater			6,200	120,000	500	70,000	350,000	2,000	10,000	100,000	10,000,000
Unsaturated Soil to Groundwater			35,000	210,000	500	70,000	2,500,000	2,000	25,000	100,000	1,000,000
Direct Contact			640,000	10,000,000	57,000	1,000,000	10,000,000	9,900,000	190,000,000	10,000,000	9,100,000

Sample Location (Depth)	Saturated (\$) Periodically Saturated (PS) Unsaturated (U)	PID Reading (PPM)	Sample Date	Sample Parameters ug/Kg								Total Xylenes
				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	
SB-1 (11')	S	0	6/22/2016	<226	<226	<226	<226	<226	<226	<226	<226	<678
SB-2 (11')	S	0	6/22/2016	<226	<223	<223	<223	<223	<223	<223	<223	<670
SB-3 (8')	PS	255	6/22/2016	389	<234	570	541	<234	<234	<234	<234	3,460
SB-3 (12')	S	530	6/22/2016	<237	<237	433	575	<237	<237	<237	<237	<710
SB-4 (9.5')	PS	0	6/22/2016	<225	<225	<225	<225	<225	<225	<225	<225	<675
SB-5 (13.5')	S	0.9	6/22/2016	<233	<233	<233	<233	<233	<233	<233	<233	<698
SB-6 (6')	U	1467	6/22/2016	7,960	2,210	<225	3,840	228	<225	678	480	15,800
SB-6 (11')	PS	540	6/22/2016	13,000	4,040	<225	7,030	651	<225	1,160	3,400	34,400
SB-7 (8')	PS	23	6/22/2016	<224	<224	<224	<224	<224	<224	<224	<224	<671
SB-7 (13')	S	270	6/22/2016	375	<227	<227	455	<227	<227	<227	<227	2,120
SB-8 (10')	PS	264	6/22/2016	235	<227	<227	444	<227	<227	2,470	2,770	2,770
SB-8 (15')	S	20.3	6/22/2016	<230	<230	<230	<230	<230	<230	<230	<230	<690
SB-9 (9.5')	PS	6.5	6/22/2016	15,300	5,470	1,790	391	904	<229	1,020	<229	6,480
SB-9 (10.5')	S	105	6/22/2016	78,300	24,900	5,650	4,510	4,590	<234	6,220	544	44,100
SB-10 (15')	S	1.4	6/22/2016	<240	<240	<240	<240	<240	<240	<240	<240	<721
SB-10 (18.5')	S	0.3	6/22/2016	<246	<246	<246	<246	<246	<246	<246	261	<739
SB-10 (21.5')	S	181	6/22/2016	<224	<224	<224	<224	<224	<224	<224	<224	<673
SB-11 (19.0')	S	97.5	6/22/2016	<235	<235	<235	<235	<235	<235	<235	<235	<704
SB-11 (21.5')	S	2.4	6/22/2016	<220	<220	<220	<220	<220	<220	<220	<220	<660
SB-12 (8.5')	S	0	9/7/2016	<228	<228	<228	<228	<228	<228	<228	<228	<663
SB-13 (10')	S	0	9/7/2016	<234	<234	<234	<234	<234	<234	<234	<234	<703
SB-14 (6')	U	4.1	9/8/2016	<229	<229	<229	<229	<229	<229	<229	<229	<686
SB-14 (7')	U	12.2	9/8/2016	<226	<226	<226	<226	<226	<226	<226	<226	<677
SB-14 (11')	S	0.3	9/8/2016	<231	<231	<231	<231	<231	<231	<231	<231	<692
SB-14 (13')	S	2.1	9/8/2016	<268	<268	<268	<268	<268	<268	<268	<268	<805
SB-15 (12.5)	U	0	9/7/2016	<233	<233	<233	<233	<233	<233	<233	<233	<700
SB-16 (14.0)	U	0	9/7/2016	<238	<238	<238	<238	<238	<238	<238	<238	<713
SB-17 (13')	U	0	9/7/2016	<238	<238	<238	<238	<238	<238	<238	<238	<713
SB-18 (5.0')	U	0	4/25/2018	5,760	1,720	1,460	1,750	297	<238	3,930	11,000	11,000
SB-18 (6.5')	U	0	4/25/2018	22,400	6,670	3,000	7,070	1,250	<237	2,550	18,000	49,100
B-1 (7)*	S	NA	8/31/2015	53,000	15,000	3900	1200	2100	<21	1700	17000	84000
B-2 (3)*	U	NA	8/31/2015	13,000	3,900	3200	3300	570	<28	880	15000	29000
B-3 (12)*	S	NA	8/31/2015	940	300	590	290	36	<24	1600	2700	2700
B-4 (3)*	U	NA	8/31/2015	740	<34	620	<34	<34	<34	100	100	140

Prepared By:	LML 5/23/2018
Checked By:	MEK 9/19/19

All concentrations presented as micrograms per kilogram (ug/kg)
 * - data obtained from the work of previous consultant
 NA=not available
 Bold = Detected
 Shaded and Bold = PADEP MSC Exceedance

Table 4

GROUNDWATER SAMPLE ANALYTICAL SUMMARY - DRAFT

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

		PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L									
		62	1,200	5	700	3,500	20	100	1,000	10,000	
		Sample Parameters									
WELL ID	Sample Date	1,2,4 - Trimethylbenzene	1,3,5 - Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes	
MW-1	7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	8/18/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	10/4/2016	<2.00	<2.00	<2.00	<2.00	<2.00	2.40	<2.00	<2.00	<6.00	
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	1/12/2017	<2.00	<2.00	<2.00	<2.00	<2.00	2.18	<2.00	<2.00	<6.00	
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	4.89	<2.00	<2.00	<6.00	
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	2.23	<2.00	<2.00	<6.00	
	9/20/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-1BR	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	11/25/2016	55.7	12.4	376	36.8	5.36	13.9	6.72	27.4	165	
	1/12/2017	24.0	10.9	523	4.34	6.64	6.42	17.5	13.3	35.5	
	5/1/2017	6.21	<2.00	84.4	3.48	<2.00	<2.00	2.28	4.47	14.5	
	8/14/2017	2.10	<2.00	106	7.55	<2.00	2.62	<2.00	3.27	<6.00	
	9/21/2017	2.72	<2.00	73.8	7.11	2.04	2.56	2.45	<2.00	<6.00	
	3/21/2018	2	<2.00	102	4.01	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-2	5/25/2018	24.8	<2.00	226	47.7	6.23	<2.00	7.95	2.37	10.2	
	7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	9.77	<2.00	<2.00	<6.00	
	8/18/2016	<2.00	<2.00	2.86	<2.00	<2.00	11.3	<2.00	<2.00	<6.00	
	10/4/2016	<2.00	<2.00	14.5	4.84	<2.00	9.73	<2.00	<2.00	<6.00	
	10/31/2016	6.84	<2.00	49.00	13.3	<2.00	<2.00	<2.00	13.00	43.8	
	1/12/2017	183	47.8	1,170	245	19.8	15.4	47.4	1,760	1,150	
	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/14/2017	858	346	703	505	83.3	10.4	274	927	2,310	
MW-2BR	9/20/2017	1,030	358	779	522	74.4	<10.0	297	1,090	2,510	
	5/25/2018	2,740	754	2,390	1,900	<2.00	<2.00	473	9,540	13,600	
	11/25/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	1/12/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-3	7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	4.76	<2.00	<2.00	<6.00	
	8/18/2016	<2.00	<2.00	<2.00	<2.00	<2.00	6.35	<2.00	<2.00	<6.00	
	10/4/2016	<2.00	<2.00	<2.00	<2.00	<2.00	5.92	<2.00	<2.00	<6.00	
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	6.96	<2.00	<2.00	<6.00	
	1/12/2017	<2.00	<2.00	<2.00	<2.00	<2.00	3.01	<2.00	<2.00	<6.00	
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-3BR	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	11/25/2016	<2.00	<2.00	2.74	<2.00	<2.00	11.2	<2.00	<2.00	<6.00	
	1/12/2017	<2.00	<2.00	<2.00	<2.00	<2.00	3.18	<2.00	<2.00	<6.00	
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	5.67	<2.00	<2.00	<6.00	
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	9.46	<2.00	<2.00	<6.00	
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	8.06	<2.00	<2.00	<6.00	
	3/21/2018	<2.00	<2.00	<2.00	<2.00	<2.00	2.98	<2.00	<2.00	<6.00	
MW-4	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	3.11	<2.00	<2.00	<6.00	
	7/27/2016	<2.00	<2.00	28.7	5.20	<2.00	22.2	<2.00	17.7	21.1	
	8/18/2016	<2.00	<2.00	18.2	<2.00	<2.00	18.0	<2.00	<2.00	<6.00	
	10/4/2016	<2.00	<2.00	57.0	5.19	<2.00	18.9	<2.00	<2.00	7.42	
	10/31/2016	17.8	6.1	25.2	36.3	<2.00	8.7	<2.00	48.2	202	
	1/12/2017	61.8	21.0	145	112	6.88	14.6	13.9	12.5	214	
	5/1/2017	52.0	26.1	202	174	13.2	17.4	22.1	3.22	107	
	8/14/2017	41.3	<2.00	162	195	17.4	6.43	35.4	<2.00	<6.00	
MW-4BR	9/21/2017	<2.00	<2.00	16.0	10.8	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/21/2018	90.2	15.4	131	106	5.09	<2.00	18.7	10.7	205	
	5/25/2018	4.55	2.63	53.4	2.91	<2.00	9.67	2.43	<2.00	43.3	

VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L												
		Sample Parameters										
		62	1,200	5	700	3,500	20	100	1,000	10,000		
WELL ID	Sample Date	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes		
MW-4BR	4/17/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/1/2017	20.4	6.81	22.6	10.5	<2.00	<2.00	2.45	41.7	96.2		
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	3/21/2018	6.85	2.53	46.2	8.48	<2.00	<2.00	3.32	52.9	51.1		
MW-5	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	9/19/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	10/4/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	1/12/2017	<2.00	<2.00	3.65	<2.00	<2.00	2.23	<2.00	<2.00	<6.00		
MW-5BR	5/1/2017	<2.00	<2.00	3.66	<2.00	<2.00	9.64	<2.00	<2.00	<6.00		
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	2.65	<2.00	<2.00	<6.00		
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	2.30	<2.00	<2.00	<6.00		
	3/21/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	4.81	<2.00	<2.00	<6.00		
MW-5BR	9/8/2017	137	11.5	667	217	29.4	14.4	7.31	25.4	204		
	9/21/2017	529	72.8	1,030	503	61.8	12.0	75.4	254	1,150		
	3/22/2018	948	219	1,300	809	86.8	<10.0	148	135	1,720		
	5/25/2018	759	213	1,070	667	73.6	<10.0	172	128	1,520		
	9/19/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
MW-6	10/4/2016	<2.00	<2.00	3.44	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	1/12/2017	<2.00	<2.00	3.67	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
MW-6BR	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	3/22/2018	<2.00	<2.00	3.20	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/25/2018	<2.00	<2.00	3.70	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
MW-7	9/19/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	10/4/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	10/31/2016	6.12	<2.00	18.9	11.1	<2.00	2.30	<2.00	13.5	7.34		
	1/12/2017	206	51.1	458	226	19.3	6.59	49.7	85.9	345		
	5/1/2017	22.2	4.93	120	33.0	3.79	<2.00	5.64	2.10	23.6		
MW-7BR	8/14/2017	4.43	<2.00	52.4	13.5	<2.00	<2.00	10.1	7.16	10.1		
	9/21/2017	4.99	<2.00	95.3	29.5	2.62	2.59	<2.00	12.1	7.69		
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/25/2018	<2.00	<2.00	92.8	9.74	<2.00	3.28	<2.00	18.2	21.10		
	3/6/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
MW-8	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	9/19/2016	196	85.9	71.3	36.4	10.8	<2.00	33.7	21.5	229		
	10/4/2016	440	121	90.9	66.8	30.7	20.7	73.6	25.9	388		
	10/31/2016	452	124	1,920	354	32.9	26.4	82.9	2,310	2,540		
MW-8BR	1/12/2017	1,240	319	5,640	1,100	76.5	54.0	319	5,960	5,380		
	5/1/2017	788	194	4,150	870	50.4	<50.0	216	3,890	4,410		
	8/14/2017	714	125	2,830	703	50.5	<50.0	222	1,160	2,770		
	9/21/2017	1,050	208	4,010	930	70.8	27.2	610	2,210	4,630		
	3/21/2018	17.8	<2.00	96.4	18.0	<2.00	<2.00	4.66	<2.00	43.2		
MW-8BR	5/25/2018	310	97.9	1,470	272	21.8	2.43	74.2	1,230	1,890		
	3/6/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		
	9/19/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00		

Table 4
GROUNDWATER SAMPLE ANALYTICAL SUMMARY - DRAFT
VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

		PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L									
		62	1,200	5	700	3,500	20	100	1,000	10,000	
		Sample Parameters									
WELL ID	Sample Date	1,2,4 - Trimethylbenzene	1,3,5 - Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes	
MW-9	4/17/2017	93.4	29.3	88.6	43.4	7.06	<2.00	11.5	163	360	
	5/1/2017	26.0	9.19	29.5	5.65	<2.00	<2.00	3.38	31.9	115	
	8/14/2017	27.8	8.87	55.4	4.97	2.89	<2.00	3.51	15.7	31.2	
	9/21/2017	35.2	4.54	75.3	2.30	6.37	<2.00	6.62	7.75	77.1	
	3/21/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-3BR	5/25/2018	2.52	<2.00	13.7	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-10	3/6/2018	137	41.2	357	209	20.2	<20.0	55.2	61.7	272	
	3/22/2018	75.3	39.5	290	134	19.5	2.08	20.4	29.7	167	
MW-11	5/25/2018	49.8	19.0	296	93.6	13.9	2.54	13.4	11.9	57.0	
	9/8/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	<2.00	<2.00	3.11	<2.00	<2.00	2.34	<2.00	<2.00	<6.00	

Table 4

GROUNDWATER SAMPLE ANALYTICAL SUMMARY - DRAFT
VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

		PADEP Non-Residential Used Aquifer (NRUA) Medium Specific Concentrations (MSC) ug/L									
		62	1,200	5	700	3,500	20	100	1,000	10,000	
		Sample Parameters									
WELL ID	Sample Date	1,2,4 - Trimethylbenzene	1,3,5 - Trimethylbenzene	Benzene	Ethylbenzene	Cumene	MTBE	Naphthalene	Toluene	Total Xylenes	
MW-12	9/8/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-13	3/22/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-14	3/22/2018	943	215	4,700	927	87.3	56.0	164	2,810	3,560	
	5/25/2018	1,040	349	1,650	496	65.2	21.8	201	1,650	3,030	
MW-15	5/9/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
MW-16	5/9/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	3.85	<6.00	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
EW-1	4/17/2017	932	242	2,950	844	59.7	11.6	201	4,480	5,180	
	5/1/2017	1,060	247	2,470	828	55.6	10.2	229	4,800	5,530	
	8/14/2017	275	84.2	171	93.3	14.7	<10.0	49.2	191	536	
	3/22/2018	67.1	12.6	113	24.9	<10.0	<10.0	23.4	17.0	103	
EW-1BR	5/25/2018	435	102	924	375	43.5	<2.00	71.4	1,910	2,180	
	4/17/2017	160	48.4	684	148	16.8	5.19	35.6	483	594	
	5/1/2017	199	53.1	679	174	18.3	4.87	42.2	469	724	
	8/14/2017	343	99.9	2,040	375	41.5	19.0	101	1,490	1,827	
STREAM	5/25/2018	202	38.7	734	177	18.9	<2.00	46.5	138	601	
	7/27/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	8/18/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	10/31/2016	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
Sump B	1/12/2017	<2.00	<2.00	3.39	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/1/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	9/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
BLD Sump	6/21/2017	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	5/25/2018	4,560	3,440	3,030	1,900	413	<2.00	2,290	150,000	24,200	
	5/25/2018	1,950	499	2,680	822	74.4	<2.00	604	13,200	10,300	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
Steam Gauge 1	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<6.00	
	8/14/2017	<2.00	<2.00	<2.00	<2.00	<2.00	9.23	<2.00	<2.00	<6.00	
	9/21/2017	1,300	374	753	553	75.0	10.2	313	1,070	2,620	
	5/25/2018	<2.00	<2.00	<2.00	<2.00	<2.00	5.42	<2.00	<2.00	<6.00	

NS - not sampled; product

Prepared By: TAK 6/21/2018
Checked By: LML 6/22/2018

TABLE 5

Soil Vapor Sample Analytical Summary
VENNARD'S CROSSROADS CONVENIENCE, INC
INDIANA, INDIANA CO., PA

PADEP Non-Residential Near-Source Soil Gas Statewide Health Standard Vapor Intrusion Screening Values ug/m3										
		16,000	49,000	1800000	470000	3,600	22,000,000	31,000	31000	440000
ANALYTICAL RESULT SUMMARY										
SOIL VAPOR SAMPLE IDENTIFICATION	SAMPLE DATE	Benzene	Ethylbenzene	Isopropyl benzene (Cumene)	Methyl-tert-butyl-ether (MTBE)	Naphthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes*
VP-1	5/9/2018 7/27/2018	<1.6 8.4	<2.2 <8.7	<6.2 <25	<1.8 <7.2	<2.6 <10	11 <7.5	8 <9.8	<2.5 <9.8	<4.3 <17
VP-2	5/9/2018** 7/27/2018	140 3.1	<8.7 1.8	<25 <2.5	<7.2 <0.72	<10 <1	210 12	<9.8 <0.98	<9.8 <0.98	<8.7 <1.7
Duplicate	5/9/2018 7/27/2018	<1.6 2.2	<2.2 2.6	<6.2 <2.5	<1.8 <0.72	<2.6 <1	12 9.4	8.7 <0.98	2.5 <0.98	<4.3 <1.7

NOTES:

1. Samples analyzed at a National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory following EPA Method TO-15.
2. Results and Screening Values reported in ug/m³.
3. PADEP Residential Screening Values for near source soil vapor as listed within Table 3 of *The Land Recycling Program Technical Guidance Manual for Vapor Intrusion into Buildings from Groundwater and Soil under Act 2, January 18, 2017*.
4. Bold values indicate compound was detected.
5. Shaded values indicate the result exceeds the applicable Screening Values

* Sample values for total xylenes are derived by summing results per sample for m&p-xylene and o-xylene.

** - sample obtained from depth of 3.5 foot bgs due to shallow water table encountered at time of sampling

Prepared By: LML 5/23/18
 Checked By: MEK 9/18/18

APPENDIX A
CHARACTERISTICS OF REGULATED SUBSTANCES

1,2,4 – TRIMETHYLBENZENE

Water Solubility (WS)

Density (d)

Organic Carbon Coefficient (Koc)

Vapor Pressure (VP)

Lower Explosive Limit (LEL)

1. 1,2,4 - TRIMETHYLBENZENE (CAS 95-63-6)

WS = 56 ppm

d = 0.876 g/ml

Koc = 2,200

VP = 4.5 mm Hg @ 20°C

LEL = 9,ppm

1,2,4 – Trimethylbenze (TMB) is primarily released into the environment through spills of petroleum products. TMB is considered volatile, therefore when released onto surface water(s) and soil(s) TMB will be lost to evaporation and microbial degradation. The high Koc and low solubility values indicate that TMB has little affinity for water leading to the conclusion that TMB will largely remain in the soil in the event of a sub-surface release. Additionally, density (d) of TMB is less than 1 indicating it is lighter than water.

TMB is moderately toxic to humans targeting the nervous system. TMB is not classified as a carcinogen. The non-residential Statewide Health Standard established for TMB is 35 ppb in ground water.

1,3,5 – TRIMETHYLBENZENE

Water Solubility (WS)

Density (d)

Organic Carbon Coefficient (Koc)

Vapor Pressure (VP)

Lower Explosive Limit (LEL)

1. 1,3,5 - TRIMETHYLBENZENE (CAS 108-67-8)

WS	= 48.9 ppm	d	= 0.8637 g/ml
Koc	= 660	VP	= 2 mm Hg @ 20°C
LEL	= Not listed in Niosh Pocket Guide		

1,3,5 – Trimethylbenzene (TMB) is primarily released into the environment through spills of petroleum products. TMB is considered volatile, therefore when released onto surface water(s) and soil(s) TMB will be lost to evaporation and microbial degradation. The high Koc and low solubility values indicate that TMB has little affinity for water leading to the conclusion that TMB will largely remain in the soil in the event of a sub-surface release. Additionally, density (d) of TMB is less than 1 indicating it is lighter than water.

TMB is moderately toxic to humans targeting the nervous system. TMB is not classified as a carcinogen. The non-residential Statewide Health Standard established for TMB is 420 ppb in ground water.

BENZENE

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (Koc)

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Benzene (CAS 71-43-2) (Ref. 1)

AS = 1,780.5 mg/L (Ref. 1)

SG = 0.88 (Ref. 2)

Koc = 58 (Ref. 1)

VP = 75 mm Hg (Ref. 2)

K = 0.35 (yr⁻¹) (Ref. 1)

LEL = 1.2% (Ref. 2)

References:

1. Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
2. Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. NIOSH Pocket Guide to Chemical Hazards and Other Databases, Publication No. 2001-145, August 2001.

TOLUENE

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (K_{oc})

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Toluene (CAS 108-88-3) (Ref. 1)

AS = 532.4 mg/L (Ref. 1)

SG = 0.87 (Ref. 2)

K_{oc} = 130 (Ref. 1)

VP = 21 mm Hg (Ref. 2)

K = 9.01 (yr⁻¹) (Ref. 1)

LEL = 1.1% (Ref. 2)

References:

1. Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
2. Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. NIOSH Pocket Guide to Chemical Hazards and Other Databases, Publication No. 2001-145, August 2001.

ETHYLBENZENE

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (K_{oc})

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Ethylbenzene (CAS 100-41-4) (Ref. 1)

AS = 161 mg/L (Ref. 1)

SG = 0.87 (Ref. 2)

K_{oc} = 220 (Ref. 1)

VP = 7 mm Hg (Ref.2)

K = 1.11 (yr⁻¹) (Ref.1)

LEL = 0.8% (Ref. 2)

References:

1. Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
2. Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. NIOSH Pocket Guide to Chemical Hazards and Other Databases, Publication No. 2001-145, August 2001.

XYLENES

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (K_{oc})

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Xylenes (total) (CAS 1330-20-7) (Ref. 1)

AS = 175 mg/L (Ref. 1)

SG = 0.87 (average) (Ref. 2)

K_{oc} = 350 (Ref. 1)

VP = 8.3 mmHg (average) (Ref. 2)

K = 0.69 (yr⁻¹) (Ref. 1)

LEL = 1.0% (average) (Ref. 2)

References:

1. Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
2. Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. NIOSH Pocket Guide to Chemical Hazards and Other Databases, Publication No. 2001-145, August 2001.

CUMENE

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (K_{oc})

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Cumene (CAS 98-82-8) (Ref. 1)

AS = 50 mg/L (Ref. 1)

SG = 0.86 (Ref. 2)

K_{oc} = 2800 (Ref. 1)

VP = 8 mm Hg (Ref. 2)

K = 15.81 (yr⁻¹) (Ref. 1)

LEL = 0.9% (Ref. 2)

References:

1. Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
2. Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. NIOSH Pocket Guide to Chemical Hazards and Other Databases, Publication No. 2001-145, August 2001.

NAPHTHALENE

Aqueous Solubility (AS)

Specific Gravity (SG)

Organic Carbon Coefficient (K_{oc})

Vapor Pressure (VP)

Degradation Coefficient (K)

Lower Explosive Limit (LEL)

Naphthalene (CAS 91-20-3) (Ref. 1)

AS = 30 mg/L (Ref. 1)

SG = 1.15 (Ref. 2)

K_{oc} = 950 (Ref. 1)

VP = 0.08 mm Hg (Ref. 2)

K = 0.98 (yr⁻¹) (Ref. 1)

LEL = 0.9% (Ref. 2)

References:

1. Department of Environmental Protection, Bureau of Land Recycling and Waste Management, Land Recycling and Cleanup Program. "Title 25. Environmental Protection, Department of Environmental Protection Chapter 250. Administration of Land Recycling Program," November 24, 2001.
2. Department of Health and Human Services, Centers for Disease Control and Prevention and National Institute for Occupational and Health. NIOSH Pocket Guide to Chemical Hazards and Other Databases, Publication No. 2001-145, August 2001.

APPENDIX B
DISPOSAL MANIFESTS

CONTAINS HAZARDOUS MATERIALS

THIS MEMORANDUM

is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. 1716-207Carrier Emerald Environmental Services

SCAC

Carrier's No. OHR 000 142 003

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request, and all applicable state and federal regulations;

at 4935 Lucerne Road, Indiana, PA

date

from

Vennard Crossroads

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:

FROM:

Consignee

Emerald Environmental Services, Inc

Shipper

Vennard Crossroads

Street

1621 St. Clair Ave

Street

4935 Lucerne Road

Destination

Kent, OH

Zip

44204

Origin

Indiana, PA

Zip

15701

Route

Delivering Carrier

Emerald Environmental

Vehicle Number

U.S. DOT Hazmat Reg. No.

100310 30 000 00

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
<u>01 TT</u>	<u>X</u>	<u>UN1800</u>	<u>Flammable Liquid (contains gasoline), RQ</u> <u>(Exempt for Recycling)</u> <u>Re-manifested to B.S.I. under EES blanket app#</u>	<u>3</u>	<u>1</u>	<u>2000</u>	<u>6</u>	

Remit COD to:

Address:

City:

State:

Zip:

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ Per _____

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of Consignor)

COD AMT:

\$

COD FEE:

Prepaid ☐Collect ☐ \$

TOTAL CHARGES:

\$

FREIGHT CHARGES:

☐ Prepaid ☐ Collect☐ BY SHIPPER ☐ BY CARRIERPLACARDS
REQUIREDPLACARDS
SUPPLIEDDRIVER'S
SIGNATURE:

SHIPPER:

Vennard Crossroads

CARRIER:

Emerald Environmental ServicesPER: 030DATE: 1/16/2017PER: J. J. J. J.DATE: 1/17/17

EMERGENCY RESPONSE

TELEPHONE NUMBER: 724-877-0000NAME OR CONTRACT NUMBER
OR OTHER UNIQUE IDENTIFIER:Emerald Environmental

CONTAINS HAZARDOUS MATERIALS

3



EMERALD
ENVIRONMENTAL INC.

Transportation Service Report

26865

Client Mountain Research

Project ID Vennard Crossroads Conv. Store

Type of Material Petroleum Impacted Water
w/gasoline

Manifest/Bol # 51717-221

Budgeted Hours _____ **DTR** _____

Demurrage

With driver ☒ Non Haz ☒

Recycle ☒

- Hose

		QTY	
- 2"	<input checked="" type="checkbox"/>	40'	12 15 1245 50
- 3"	<input checked="" type="checkbox"/>	40'	
- 4"	<input type="checkbox"/>		

~~275~~

Special Fittings: Reducers, drop tubes

Special Fittings: Reducers, drop tubes

Travel Time:	Turnpike Gate (on)	Turnpike Gate (off)	Start	Stop	Travel Time	DATE
From: Kent OH		To: Indiana PA	545	9:00	3.25	05/17/17
From: Indiana OH		To: Youngstown OH	1:00	315	2.25	"
From: Youngstown OH		To: PA Kent OH	400	515	1.25	"
From:		To:				
From:		To:				
Total Travel Time					6.75	J

Total Travel Time	6.75
--------------------------	------

Appt Time	Arrival	Depart	Site Time
-----------	---------	--------	-----------

Name	Vennard Crossroads Conv. Store	9:00 AM	9:00	1:00	4
------	--------------------------------	---------	------	------	---

4905 Lucerne Road	DATE	PHONE #
Address: P.O.		

Disposal #1		same day delivery by		
Name	50141550		315	75

Address	1101 Andrews Ave.	Contact	Phone #
---------	-------------------	---------	---------

[illegible]

Address	Contact	Phone #
---------	---------	---------

Disposal # 2				
Name				

Address	Contact	Phone #

Total Site Time	4.75
-----------------	------

Total Hours (This Sheet) 11.50

Client Signature _____

CONTAINS HAZARDOUS MATERIALS

THIS SHIPPING ORDERmust be legibly filled in, in ink, in indelible pencil, or in
Carbon, and retained by the Agent.Shipper's No. 62217-1**Emerald Environmental Services**

OHR 000 102 053

Carrier Emerald Environmental Services SCAC

Carrier's No. _____

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 4985 Lucerne Road, Indiana, PA date _____ from Vennard Crossroads

the Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee <u>Emerald Environmental Services, Inc</u>		Shipper <u>Vennard Crossroads</u>	
Street <u>1621 St. Clair Ave.</u>		Street <u>4985 Lucerne Road</u>	
Destination <u>Kent, OH</u>	Zip <u>44240</u>	Origin <u>Indiana, PA</u>	Zip <u>15701</u>
Route _____		_____	
Delivering Carrier <u>Emerald Environmental</u>		Vehicle Number _____	U.S. DOT Hazmat Reg. No. <u>03031635072 YZ</u>

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
<u>01 TT</u>	<u>X</u>	<u>UN1993</u>	<u>Flammable Liquid (contains gasoline), RQ</u> <u>(Exempt for Recycling)</u> <u>Re-manifested to E.S.I. under EES blanket approval</u>	<u>3</u>	<u>II</u>	<u>1975</u>	<u>G</u>	

Remit COD to:

Address:

City:

State:

Zip:

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

COD AMT:

\$

TOTAL CHARGES:

\$

COD FEE:Prepaid ☐Collect ☐ \$**FREIGHT CHARGES:**☐ Prepaid ☐ Collect☐ BY SHIPPER ☐ BY CARRIER

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ Per _____

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14708(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per _____

**PLACARDS
REQUIRED****PLACARDS
SUPPLIED**DRIVER'S
SIGNATURE: _____SHIPPER: Vennard CrossroadsPER: Robert E. VennardDATE: 6/22/17CARRIER: Emerald Environmental ServicesPER: Greg KleinDATE: 6/22/17**EMERGENCY RESPONSE**TELEPHONE NUMBER: (330) 677-0785NAME OR CONTRACT NUMBER
OR OTHER UNIQUE IDENTIFIER:Emerald Environmental

CONTAINS HAZARDOUS MATERIALS

2

Agreed upon detach and retain this Shipping Order and must sign the
original B6 of Lading.

JOB DESCRIPTION: Vapor extract from 2" diameter and 4" diameter wells plus a 10" sump (maybe 2). Estimate 8 hours of vac time on site



Transportation Service Report

Take variety of stingers plus reducer for 6" exhaust on truck to go down to a 2" camlock. They may want to scrub vapors thru their carbon treatment on site

#27202

Driver Greg Date 6/22/2017 Client Mountain Research
 Tractor 221 Job # 17-1048EES Project ID Vennard Crossroads Conv. Store
 Trailer Liq Ring Sales Order # 18889 Type of Material Petroleum Impacted Water w/gasoline
 Roll-Off # P/U Hard Top ☐ Open Top ☐ Manifest/Bol # 62217-1
 Roll-Off # Spot Hard Top ☐ Open Top ☐ Budgeted Hours DTR

Manifest and Markings		Type of Material	
Onsite	<input type="checkbox"/>	Haz	<input type="checkbox"/>
With driver	<input checked="" type="checkbox"/>	Non Haz	<input checked="" type="checkbox"/>
		Recycle	<input checked="" type="checkbox"/>

Pump Time: Start: 1230 End: 1245 Total Hrs: .25
 Pump Time: Start: 100 End: 130 Total Hrs: .50
 Pump Time: Start: 130 End: 220 Total Hrs: .50

- Hose	QTY
- 2" <input checked="" type="checkbox"/>	40'
- 3" <input checked="" type="checkbox"/>	40'
- 4" <input type="checkbox"/>	

Special Fittings: Reducers, drop tubes

Travel Time:	Turnpike Gate (on)	Turnpike Gate (off)	Start	Stop	Travel Time	DATE
From: Kent OH		To: Indiana OH	0915	1215	3	6/22/17
From: Indiana PA		To: Indiana PA	445 pm	515 pm	.50	6/22/17
From: Indiana PA		To: Youngstown OH	0645 am	1000 am	3.25	6/23/17
From: Youngstown OH		To: Kent OH	1100	1200	1	
From:		To:				

Total Travel Time 7.75

Pick Up Site/Disposal Facility:

Pick Up #	Name	Address	Appt Time	Arrival	Depart	Site Time
Pick Up # 1	Vennard Crossroads Conv. Store	4985 Lucerne Road Indiana, PA	10:30 AM	1215	445	450
Disposal #1	E.S.I. (via EES)	1101 Andrews Ave. Youngstown, OH	4:30 PM	1000 am	1100	1
Pick Up # 2	Drain water clean raised	3 drums		1:00	2:30	1:50
Disposal # 2						

Total Site Time 5.50

Client Signature Greg

Total Hours (This Sheet) 13.25

THIS MEMORANDUM

is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. _____

Emerald Environmental Services

SCAC

Carrier's No. _____

OHR 000 102 053

Carrier

RECEIVED, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications and rules that have been established by the carrier and are available to the shipper, on request; and all applicable state and federal regulations;

at 4985 Lucerne Road, Indiana, PA

, date _____

from

Vennard Crossroads

The Property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to delivery at said destination, if on its route, or otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said Property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said Property that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

TO:		FROM:	
Consignee	Emerald Environmental Services, Inc	Shipper	Vennard Crossroads
Street	1621 St. Clair Ave	Street	4985 Lucerne Road
Destination	Kent, OH Zip 44240	Origin	Indiana, PA Zip 15701
Route			
Delivering Carrier		Vehicle Number	U.S. DOT Hazmat Reg. No.
Emerald Environmental			650316330072 YZ

Number and Type of Packages	HM	I.D. Number	Description of Articles	Hazard Class	Pkg. Grp.	Total Quantity (mass, volume, or activity)	Weight (subject to correction)	Class or Rate
01 TL	X	UN1993	Flammable Liquid (contains gasoline), RC (Exempt for Recycling) Re-manifested to E.S.I. under MMS blanket approval	3	II	192	5	

Remit COD to:

Address:

City: _____ State: _____ Zip: _____

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ Per _____

NOTE: Liability Limitation for loss or damage in this shipment may be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B).

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per _____

SHIPPER:

PER: _____ DATE: 8/15/17

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of Consignor)

COD AMT:

\$ _____

TOTAL CHARGES:

\$ _____

COD FEE:

Prepaid ☐Collect ☐ \$ _____

FREIGHT CHARGES:

☐ Prepaid ☐ Collect☐ BY SHIPPER ☐ BY CARRIERPLACARDS
REQUIREDPLACARDS
SUPPLIEDDRIVER'S
SIGNATURE:

CARRIER:

PER: _____ DATE: 8/15/17

EMERGENCY RESPONSE

TELEPHONE NUMBER: (330) 677-0765

NAME OR CONTRACT NUMBER
OR OTHER UNIQUE IDENTIFIER:

Emerald Environmental

APPENDIX C

WHITE TOWNSHIP ORDINANCE

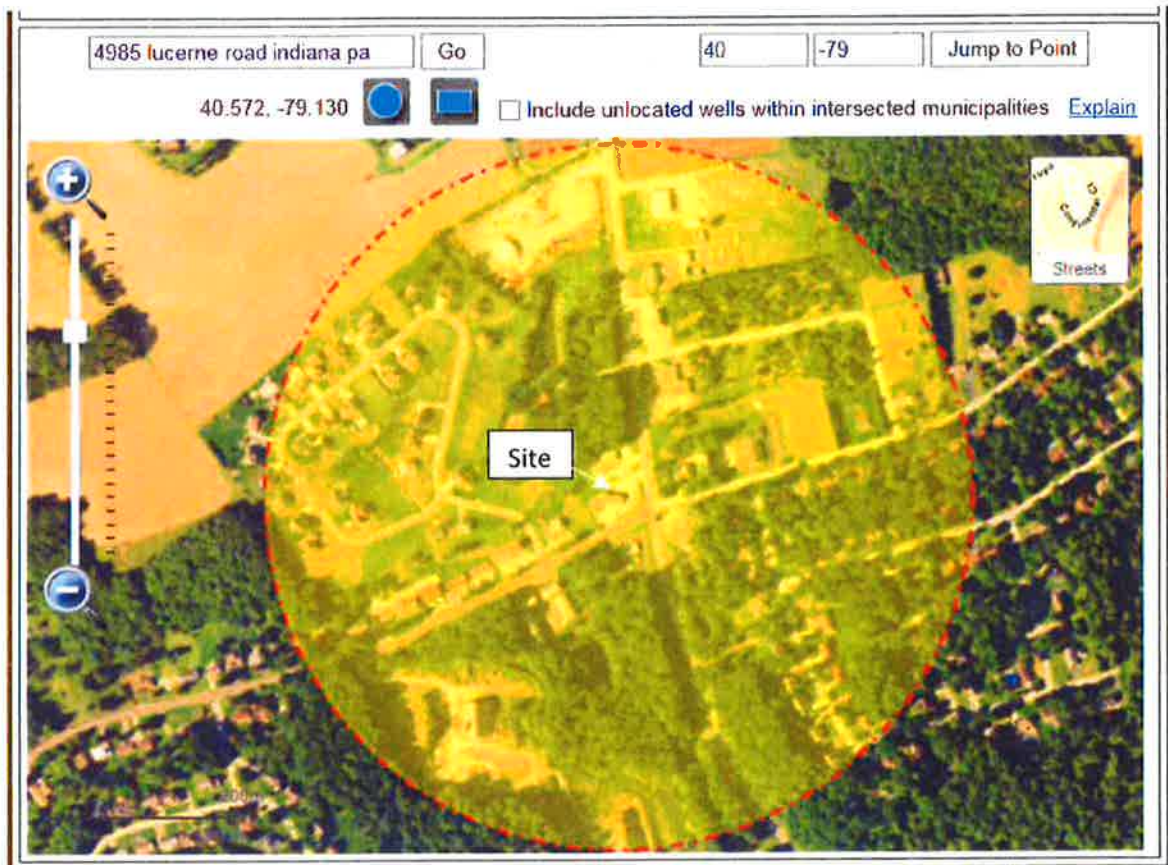
§ 311-7. Connection required.

Every owner of property in the Township of White (herein called the "Township") which property has now or hereafter shall have a house, building or other structure located thereon, which house, building or other structure presently uses or in the future will use water for human consumption and which property abuts and which house, building or other structure is located within 150 feet of any portion of the public water supply and distribution system (1992 PennVest Loan — White Township/Center Township, Water Renovation Project VI, as now approved or hereafter incorporated or added to said project) to be constructed on East Pike (SR 1002), Airport Road (SR 1006), Warren Road (SR 3024), Geesey Road and Stormer Road (SR 1001), Hood School Road (SR 1008), Greendale Drive (TR 435), Apache Drive (TR 857), Raymond Drive (TR 740), Brown Road (TR 743) and Barclay Road (TR 480) and such other state and Township roads as are now approved or hereafter incorporated or added to said project in the Township by the Indiana County Municipal Services Authority (hereinafter called the "Authority") in the near future shall provide a connection at the owner's cost to the house, building or other structure located on the property with the aforementioned public water system.

APPENDIX D

PAGWIS REPORT AND EDR REPORT

PAGWIS Search Conducted 11/8/2016



[Download Data Package](#)

[Clear Selections](#)

[Contact Us](#)

'Download Data Package' creates a data package-specific CSV file that you may open or download. If you choose to open the file, it may open in Excel (if you have Microsoft Office installed). Because of the relational nature of the database, there may be more than 1 line per well in the downloaded data. For data on public water supply wells, or water quality data, please see instructions.

[Instructions](#)

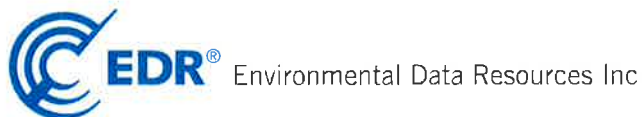
Total Records To Download : 0 Records

Vennards Crossroads Convenience

4895 Lucerne Road
Indiana, PA 15701

Inquiry Number: 4456268.2s
November 03, 2015

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	9
Government Records Searched/Data Currency Tracking	GR-1
 <u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-19
Physical Setting Source Map Findings	A-21
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4895 LUCERNE ROAD
INDIANA, PA 15701

COORDINATES

Latitude (North):	40.5759000 - 40° 34' 33.24"
Longitude (West):	79.1331000 - 79° 7' 59.16"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	658019.8
UTM Y (Meters):	4493143.5
Elevation:	1299 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5950745 INDIANA, PA
Version Date:	2013
East Map:	5950731 BRUSH VALLEY, PA
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20100619
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
4895 LUCERNE ROAD
INDIANA, PA 15701

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	VENNARDS CROSSROADS	4895 LUCERNE RD	UST		TP

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
VENNARDS CROSSROADS 4895 LUCERNE RD INDIANA, PA 15701	UST Site ID: 575990 Tank Status: Currently In Use	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators

EXECUTIVE SUMMARY

RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

SHWS..... Hazardous Sites Cleanup Act Site List
HSCA..... HSCA Remedial Sites Listing

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Operating Facilities

State and tribal leaking storage tank lists

LAST..... Storage Tank Release Sites
LUST..... Storage Tank Release Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
UNREG LTANKS..... Unregulated Tank Cases

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
AST..... Listing of Pennsylvania Regulated Aboveground Storage Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Site Listing
INST CONTROL..... Institutional Controls Site Listing
AUL..... Environmental Covenants Listing

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Listing
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF..... Abandoned Landfill Inventory
 INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
 ODI..... Open Dump Inventory
 DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... National Clandestine Laboratory Register
 US CDL..... Clandestine Drug Labs

Local Lists of Registered Storage Tanks

ARCHIVE UST..... Archived Underground Storage Tank Sites
 ARCHIVE AST..... Archived Aboveground Storage Tank Sites

Local Land Records

LIENS 2..... CERCLA Lien Information
 ACT 2-DEED..... Act 2-Deed Acknowledgment Sites

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
 SPILLS..... State spills

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
 FUDS..... Formerly Used Defense Sites
 DOD..... Department of Defense Sites
 SCR DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
 US FIN ASSUR..... Financial Assurance Information
 EPA WATCH LIST..... EPA WATCH LIST
 2020 COR ACTION..... 2020 Corrective Action Program List
 TSCA..... Toxic Substances Control Act
 TRIS..... Toxic Chemical Release Inventory System
 SSTs..... Section 7 Tracking Systems
 ROD..... Records Of Decision
 RMP..... Risk Management Plans
 RAATS..... RCRA Administrative Action Tracking System
 PRP..... Potentially Responsible Parties
 PADS..... PCB Activity Database System
 ICIS..... Integrated Compliance Information System
 FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
 MLTS..... Material Licensing Tracking System
 COAL ASH DOE..... Steam-Electric Plant Operation Data
 COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
 PCB TRANSFORMER..... PCB Transformer Registration Database
 RADINFO..... Radiation Information Database
 HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
 DOT OPS..... Incident and Accident Data

EXECUTIVE SUMMARY

CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
AIRS.....	Permit and Emissions Inventory Data
DRYCLEANERS.....	Drycleaner Facility Locations
MANIFEST.....	Manifest Information
MINES.....	MINES
NPDES.....	NPDES Permit Listing
UIC.....	Underground Injection Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat.....	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name

Database(s)

NATL MINERALS

LUST

OVERVIEW MAP - 4456268.2S



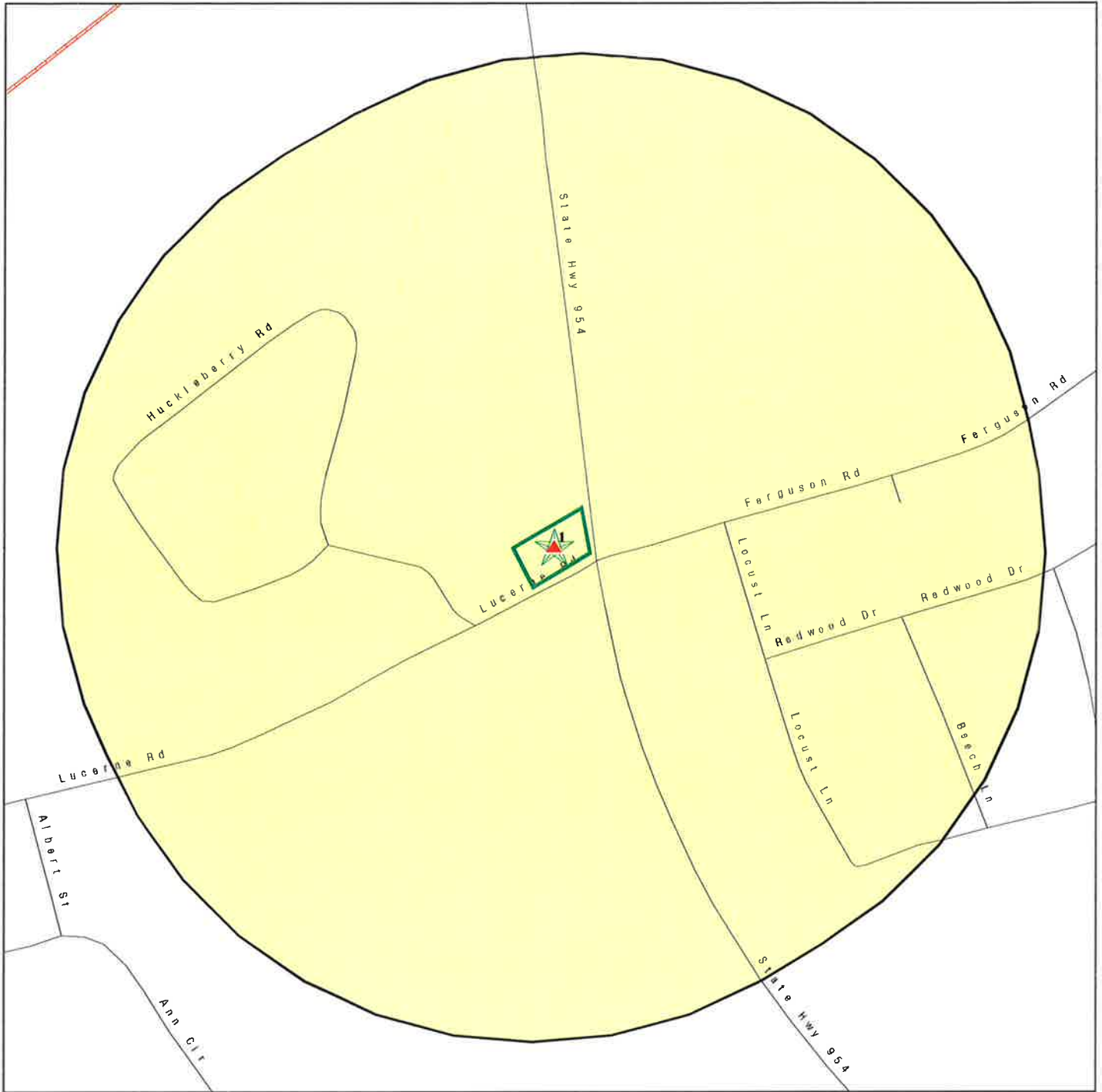
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory






This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.





SITE NAME: Vennards Crossroads Convenience
 ADDRESS: 4895 Lucerne Road
 Indiana PA 15701
 LAT/LONG: 40.5759 / 79.1331

CLIENT: Mountain Research, Inc.
 CONTACT: Ryan T. Hill
 INQUIRY #: 4456268.2s
 DATE: November 03, 2015 1:59 pm

DETAIL MAP - 4456268.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Pipelines
-  100-year flood zone
-  500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Vennards Crossroads Convenience
ADDRESS: 4895 Lucerne Road
 Indiana PA 15701
LAT/LONG: 40.5759 / 79.1331

CLIENT: Mountain Research, Inc.
CONTACT: Ryan T. Hill
INQUIRY #: 4456268.2s
DATE: November 03, 2015 2:00 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
SHWS	1.000		0	0	0	0	NR	0
HSCA	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UNREG LTANKS	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	0	0	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
ARCHIVE UST	0.250		0	0	NR	NR	NR	0
ARCHIVE AST	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
ACT 2-DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.125		0	NR	NR	NR	NR	0
EDR US Hist Cleaners	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		1	0	0	0	0	0	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
Target
Property

VENNARDS CROSSROADS CONVENIENCE
4895 LUCERNE RD
INDIANA, PA 15701

UST **U002039587**
N/A

Actual:
1299 ft.

UST:

Site ID: 575990
Other Id: 32-81802
Client Id Number: 168505
Municipality Name: White
Region: EP SW Rgnl Off Pittsburgh
Mailing Name: RICHARD R VENNARD
Mailing Address: 5190 WHITE OAK DR
Mailing Address 2: Not reported
Mailing City,St,Zip: INDIANA, PA 15701-9479
Registration Expiration Date: 10/04/2015

Tank Seq No: 001
Tank Status: **Currently In Use**
Capacity: 6000
Substance: Gasoline
Date Installed: 03/01/1990
Tank Code: UST
Inspection Code: Facility Operation Inspection
Tank Last Dt Inspected: 05/04/2015
Decode for Tstatus: Currently In Use
Decode for Substance: Gasoline

Tank Seq No: 002
Tank Status: **Currently In Use**
Capacity: 4000
Substance: Gasoline
Date Installed: 03/01/1990
Tank Code: UST
Inspection Code: Facility Operation Inspection
Tank Last Dt Inspected: 05/04/2015
Decode for Tstatus: Currently In Use
Decode for Substance: Gasoline

Tank Seq No: 003
Tank Status: **Currently In Use**
Capacity: 2000
Substance: Diesel Fuel
Date Installed: 03/01/1990
Tank Code: UST
Inspection Code: Facility Operation Inspection
Tank Last Dt Inspected: 05/04/2015
Decode for Tstatus: Currently In Use
Decode for Substance: Diesel Fuel

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
INDIANA	S105802653	NATL MINERALS	RTE 954 S	15701	LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 07/10/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 800-438-2474
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 08/12/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/30/2015
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 08/31/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 08/31/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/14/2015
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/22/2015	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-267-2180
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 06/26/2015
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Annually

State- and tribal - equivalent NPL

SHWS: Hazardous Sites Cleanup Act Site List

The Hazardous Sites Cleanup Act Site List includes sites listed on PA Priority List, sites delisted from PA Priority List, Interim Response Completed sites, and Sites Being Studied or Response Being Planned.

Date of Government Version: 07/21/2015	Source: Department Environmental Protection
Date Data Arrived at EDR: 07/21/2015	Telephone: 717-783-7816
Date Made Active in Reports: 08/18/2015	Last EDR Contact: 07/21/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/02/2015
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HSCA: HSCA Remedial Sites Listing

A list of remedial sites on the PA Priority List. This is the PA state equivalent of the federal NPL superfund list.

Date of Government Version: 04/16/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/21/2015	Telephone: 717-783-7816
Date Made Active in Reports: 08/18/2015	Last EDR Contact: 07/21/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/02/2015
	Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Operating Facilities

The listing includes Municipal Waste Landfills, Construction/Demolition Waste Landfills and Waste-to-Energy Facilities.

Date of Government Version: 08/24/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/27/2015	Telephone: 717-787-7564
Date Made Active in Reports: 10/08/2015	Last EDR Contact: 08/24/2015
Number of Days to Update: 42	Next Scheduled EDR Contact: 12/07/2015
	Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LAST: Storage Tank Release Sites

Leaking Aboveground Storage Tank Incident Reports.

Date of Government Version: 09/14/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/16/2015	Telephone: 717-783-7509
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/16/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/28/2015
	Data Release Frequency: Semi-Annually

LUST: Storage Tank Release Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/14/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/16/2015	Telephone: 717-783-7509
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/16/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/28/2015
	Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/08/2015	Telephone: 415-972-3372
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015	Source: EPA Region 8
Date Data Arrived at EDR: 05/05/2015	Telephone: 303-312-6271
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015	Source: EPA Region 7
Date Data Arrived at EDR: 04/28/2015	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 07/28/2015	Source: EPA, Region 5
Date Data Arrived at EDR: 08/07/2015	Telephone: 312-886-7439
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/13/2015	Source: EPA Region 6
Date Data Arrived at EDR: 08/03/2015	Telephone: 214-665-6597
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/03/2015	Source: EPA Region 1
Date Data Arrived at EDR: 04/30/2015	Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 07/21/2015	Source: EPA Region 10
Date Data Arrived at EDR: 07/29/2015	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2015	Source: EPA Region 4
Date Data Arrived at EDR: 08/07/2015	Telephone: 404-562-8677
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Semi-Annually

UNREG LTANKS: Unregulated Tank Cases

Leaking storage tank cases from unregulated storage tanks.

Date of Government Version: 04/12/2002	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/14/2003	Telephone: 717-783-7509
Date Made Active in Reports: 08/29/2003	Last EDR Contact: 08/14/2003
Number of Days to Update: 15	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/10/2015
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Varies

UST: Listing of Pennsylvania Regulated Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/01/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/16/2015	Telephone: 717-772-5599
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/16/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/28/2015
	Data Release Frequency: Varies

AST: Listing of Pennsylvania Regulated Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 09/01/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/16/2015	Telephone: 717-772-5599
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/16/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/28/2015
	Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2015	Source: EPA Region 4
Date Data Arrived at EDR: 08/07/2015	Telephone: 404-562-9424
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/28/2015	Source: EPA Region 5
Date Data Arrived at EDR: 08/07/2015	Telephone: 312-886-6136
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 07/21/2015	Source: EPA Region 10
Date Data Arrived at EDR: 07/29/2015	Telephone: 206-553-2857
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/03/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 04/30/2015	Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 53	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014	Source: EPA Region 9
Date Data Arrived at EDR: 02/13/2015	Telephone: 415-972-3368
Date Made Active in Reports: 03/13/2015	Last EDR Contact: 07/31/2015
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/13/2015	Source: EPA Region 6
Date Data Arrived at EDR: 08/03/2015	Telephone: 214-665-7591
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 71	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/28/2015	Source: EPA Region 8
Date Data Arrived at EDR: 08/14/2015	Telephone: 303-312-6137
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 07/22/2015
Number of Days to Update: 60	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Quarterly

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/15/2008
Date Data Arrived at EDR: 05/16/2008
Date Made Active in Reports: 06/12/2008
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 07/15/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: No Update Planned

AUL: Environmental Covenants Listing

A listing of sites with environmental covenants.

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/21/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 717-783-7509
Last EDR Contact: 07/21/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: Varies

INST CONTROL: Institutional Controls Site Listing

Under the Land Recycling Act (Act 2) persons who perform a site cleanup using the site-specific standard or the special industrial area standard may use engineering or institutional controls as part of the response action. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/15/2008
Date Data Arrived at EDR: 05/16/2008
Date Made Active in Reports: 06/12/2008
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 07/15/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites

The VCP listings included Completed Sites, Sites in Progress and Act 2 Non-Use Aquifer Determinations Sites. Formerly known as the Act 2, the Land Recycling Program encourages the voluntary cleanup and reuse of contaminated commercial and industrial sites.

Date of Government Version: 07/14/2015
Date Data Arrived at EDR: 07/15/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 34

Source: Department of Environmental Protection
Telephone: 717-783-2388
Last EDR Contact: 07/15/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Brownfields Sites

Brownfields are generally defined as abandoned or underused industrial or commercial properties where redevelopment is complicated by actual or perceived environmental contamination. Brownfields vary in size, location, age and past use. They can range from a small, abandoned corner gas station to a large, multi-acre former manufacturing plant that has been closed for years.

Date of Government Version: 07/15/2015
Date Data Arrived at EDR: 07/20/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 29

Source: Department of Environmental Protection
Telephone: 717-783-1566
Last EDR Contact: 07/15/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/24/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/24/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF ALI: Abandoned Landfill Inventory

The report provides facility information recorded in the Pennsylvania Department of Environmental Protection ALI database. Some of this information has been abstracted from old records and may not accurately reflect the current conditions and status at these facilities

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/04/2005
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 717-787-7564
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

HIST LF INVENTORY: Facility Inventory

A listing of solid waste facilities. This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP's name was the Department of Environmental Resources.

Date of Government Version: 06/02/1999
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 09/19/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

HIST LF INACTIVE: Inactive Facilities List

A listing of inactive non-hazardous facilities (10000 & 300000 series). This listing is no longer updated or maintained by the Department of Environmental Protection. At the time the listing was available, the DEP's name was the Department of Environmental Resources.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/20/1994
Date Data Arrived at EDR: 07/12/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 717-787-7381
Last EDR Contact: 06/21/2005
Next Scheduled EDR Contact: 12/19/2005
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 08/11/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/01/2015
Date Data Arrived at EDR: 06/02/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 106

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/15/2015
Date Data Arrived at EDR: 06/02/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 106

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

ARCHIVE UST: Archived Underground Storage Tank Sites

The list includes tanks storing highly hazardous substances that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/16/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 09/16/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Varies

ARCHIVE AST: Archived Aboveground Storage Tank Sites

The list includes aboveground tanks with a capacity greater than 21,000 gallons that were removed from the DEP's Storage Tank Information database because of the Department's policy on sensitive information. The list also may include tanks that are removed or permanently closed.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/16/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-772-5599
Last EDR Contact: 09/16/2015
Next Scheduled EDR Contact: 12/28/2015
Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

ACT 2-DEED: Act 2-Deed Acknowledgment Sites

This listing pertains to sites where the Department has approved a cleanup requiring a deed acknowledgment under Act 2. This list includes sites remediated to a non-residential Statewide health standard (Section 303(g)); all sites demonstrating attainment of a Site-specific standard (Section 304(m)); and sites being remediated as a special industrial area (Section 305(g)). Persons who remediated a site to a standard that requires a deed acknowledgment shall comply with the requirements of the Solid Waste Management Act or the Hazardous Sites Cleanup Act, as referenced in Act 2. These statutes require a property description section in the deed concerning the hazardous substance disposal on the site. The location of disposed hazardous substances and a description of the type of hazardous substances disposed on the site shall be included in the deed acknowledgment. A deed acknowledgment is required at the time of conveyance of the property.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/28/2010
Date Made Active in Reports: 04/30/2010
Number of Days to Update: 2

Source: Department of Environmental Protection
Telephone: 717-783-9470
Last EDR Contact: 07/22/2011
Next Scheduled EDR Contact: 11/07/2011
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 06/26/2015
Number of Days to Update: 68	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Annually

SPILLS: State spills

A listing of hazardous material incidents.

Date of Government Version: 08/11/2015	Source: DEP, Emergency Response
Date Data Arrived at EDR: 08/14/2015	Telephone: 717-787-5715
Date Made Active in Reports: 09/08/2015	Last EDR Contact: 08/10/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/09/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/26/2015	Telephone: 800-438-2474
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 06/26/2015
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 09/11/2015
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/21/2015
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/14/2015
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/14/2015
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 05/21/2015
Number of Days to Update: 54	Next Scheduled EDR Contact: 08/31/2015
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/01/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/02/2015	Telephone: 202-566-1917
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 08/12/2015
Number of Days to Update: 106	Next Scheduled EDR Contact: 11/30/2015
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/04/2015
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/23/2015
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 05/14/2015
Number of Days to Update: 6	Next Scheduled EDR Contact: 08/24/2015
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/17/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/26/2015	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/10/2015	Telephone: 301-415-7169
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 09/03/2015
Number of Days to Update: 95	Next Scheduled EDR Contact: 12/21/2015
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 07/13/2015
Number of Days to Update: 76	Next Scheduled EDR Contact: 10/28/2015
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/12/2015
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/31/2015
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/04/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/28/2015
Next Scheduled EDR Contact: 12/07/2015
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/14/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/07/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 07/22/2015
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 40

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 07/22/2015
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 40

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/22/2015
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/14/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 91

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/01/2015
Next Scheduled EDR Contact: 12/14/2015
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/05/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 06/05/2015
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/14/2015
	Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015	Source: EPA
Date Data Arrived at EDR: 02/27/2015	Telephone: (215) 814-5000
Date Made Active in Reports: 03/25/2015	Last EDR Contact: 06/10/2015
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/21/2015
	Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 12/31/2013	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/22/2014	Telephone: 717-787-9702
Date Made Active in Reports: 09/17/2014	Last EDR Contact: 06/23/2015
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/12/2015
	Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facility Locations

A listing of drycleaner facility locations.

Date of Government Version: 09/21/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/22/2015	Telephone: 717-787-9702
Date Made Active in Reports: 10/12/2015	Last EDR Contact: 09/21/2015
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/04/2016
	Data Release Frequency: Varies

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/24/2015	Telephone: 717-783-8990
Date Made Active in Reports: 08/18/2015	Last EDR Contact: 07/20/2015
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/02/2015
	Data Release Frequency: Annually

MINES: Abandoned Mine Land Inventory

This data set portrays the approximate location of Abandoned Mine Land Problem Areas containing public health, safety, and public welfare problems created by past coal mining.

Date of Government Version: 07/02/2015	Source: PASDA
Date Data Arrived at EDR: 07/28/2015	Telephone: 814-863-0104
Date Made Active in Reports: 08/18/2015	Last EDR Contact: 07/28/2015
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/09/2015
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES Permit Listing

A listing of facilities with an NPDES permit.

Date of Government Version: 03/28/2014
Date Data Arrived at EDR: 06/12/2014
Date Made Active in Reports: 08/05/2014
Number of Days to Update: 54

Source: Department of Environmental Protection
Telephone: 717-787-9642
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

UIC: Underground Injection Wells

A listing of underground injection well locations.

Date of Government Version: 09/22/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 10/12/2015
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: 717-783-7209
Last EDR Contact: 09/23/2015
Next Scheduled EDR Contact: 01/04/2016
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department Environmental Protection in Pennsylvania.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/06/2015
Date Made Active in Reports: 08/24/2015
Number of Days to Update: 18

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/06/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 07/20/2015
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/20/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation
Telephone: 281-546-1505

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: 800-823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facility List

Source: Department of Public Welfare

Telephone: 717-783-3856

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

VENNARDS CROSSROADS CONVENIENCE
4895 LUCERNE ROAD
INDIANA, PA 15701

TARGET PROPERTY COORDINATES

Latitude (North):	40.5759 - 40° 34' 33.24"
Longitude (West):	79.1331 - 79° 7' 59.16"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	658019.8
UTM Y (Meters):	4493143.5
Elevation:	1299 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5950745 INDIANA, PA
Version Date:	2013
East Map:	5950731 BRUSH VALLEY, PA
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

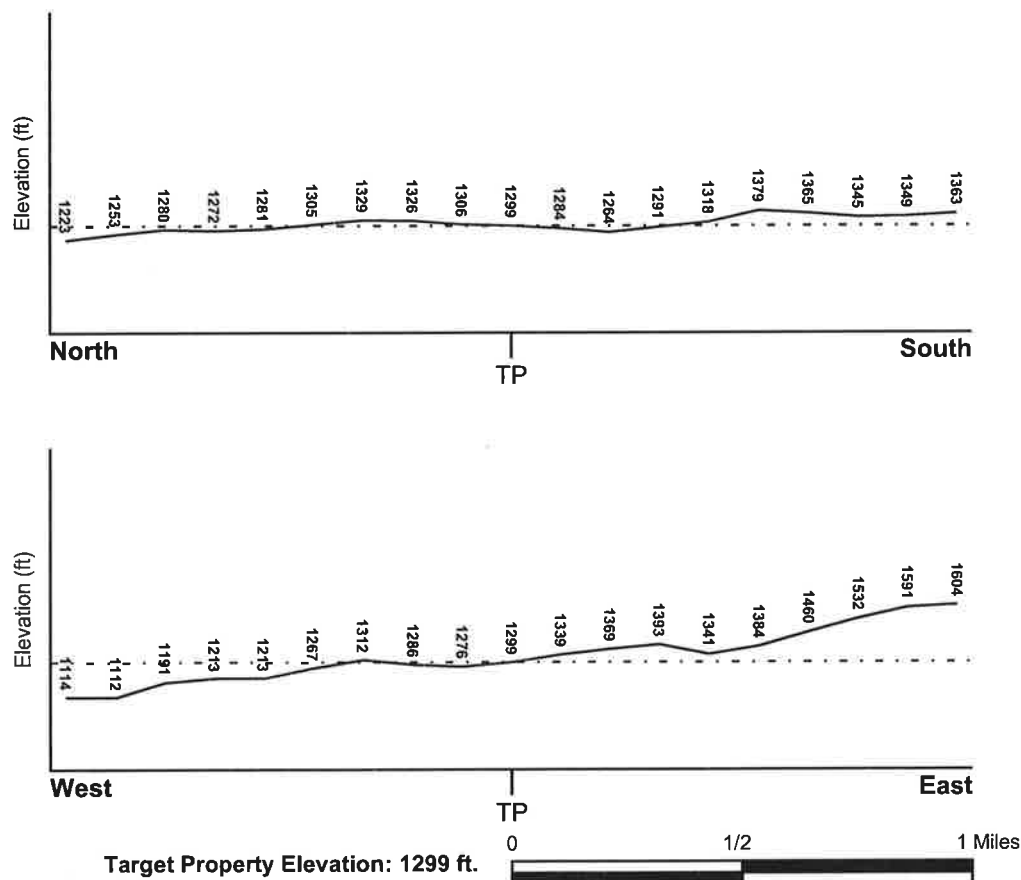
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
INDIANA, PA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 4217250015A - FEMA Q3 Flood data

Additional Panels in search area: 4217100025A - FEMA Q3 Flood data
4204960002D - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
INDIANA

NWI Electronic
Data Coverage
YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

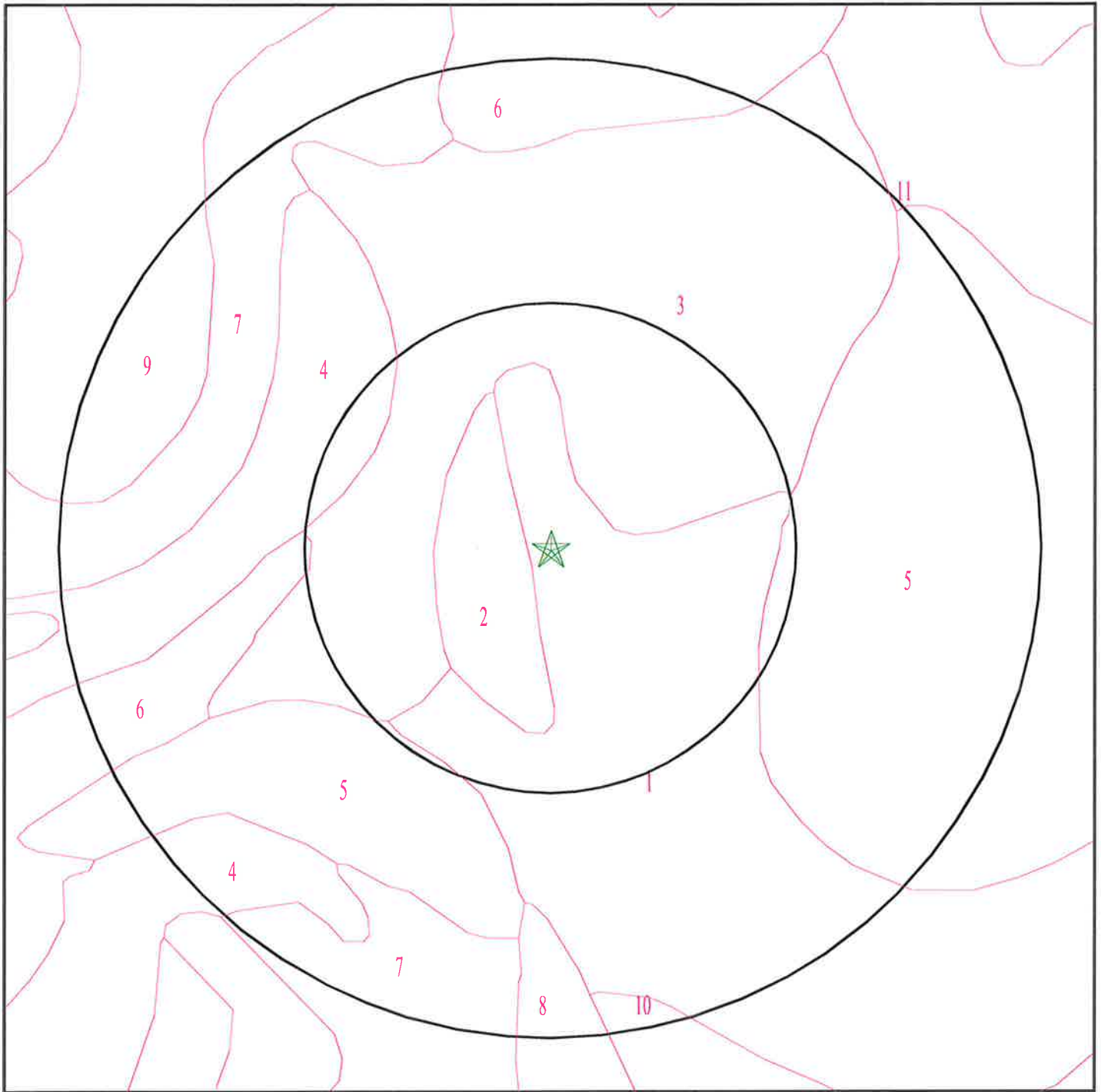
Era:	Paleozoic
System:	Pennsylvanian
Series:	Des Moinesian Series
Code:	PP2 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4456268.2s



- ★ Target Property
- ~ SSURGO Soil
- ~ Water



SITE NAME: Vennards Crossroads Convenience
ADDRESS: 4895 Lucerne Road
Indiana PA 15701
LAT/LONG: 40.5759 / 79.1331

CLIENT: Mountain Research, Inc.
CONTACT: Ryan T. Hill
INQUIRY #: 4456268.2s
DATE: November 03, 2015 2:00 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Dekalb

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.14 Min: 42.34	Max: 6.5 Min: 3.6
2	7 inches	22 inches	very channery sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 5.5 Min: 3.6
3	22 inches	26 inches	flaggy sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141.14 Min: 42.34	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	26 inches	37 inches	unweathered bedrock	Not reported	Not reported	Max: 42 Min: 4	Max: Min:

Soil Map ID: 2

Soil Component Name: Brinkerton

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 8 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5
2	9 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5
3	16 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.41 Min: 0.42	Max: 6 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	25 inches	59 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4.23 Min: 0.42	Max: 6.5 Min: 5.1

Soil Map ID: 3

Soil Component Name: Cookport

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 112 inches

Depth to Watertable Min: > 40 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
2	9 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	14 inches	38 inches	channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0.42	Max: 5.5 Min: 3.6
4	38 inches	44 inches	channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4.23 Min: 1.41	Max: 5.5 Min: 3.6
5	44 inches	46 inches	unweathered bedrock	Not reported	Not reported	Max: 4.23 Min: 0.1	Max: Min:

Soil Map ID: 4

Soil Component Name: Gilpin

Soil Surface Texture: channery silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	24 inches	channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
3	24 inches	29 inches	very channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
4	29 inches	33 inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: Min:

Soil Map ID: 5

Soil Component Name: Clymer

Soil Surface Texture: channery loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 120 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
2	7 inches	35 inches	channery loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
3	35 inches	40 inches	very channery sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
4	40 inches	53 inches	weathered bedrock	Not reported	Not reported	Max: 42.34 Min: 14.11	Max: Min:

Soil Map ID: 6

Soil Component Name: Ernest

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5
2	9 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
3	16 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4.5
4	25 inches	51 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4.5

Soil Map ID: 7

Soil Component Name: Gilpin

Soil Surface Texture: channery silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
2	7 inches	24 inches	channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
3	24 inches	29 inches	very channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
4	29 inches	33 inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: Min:

Soil Map ID: 8

Soil Component Name: Dekalb

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.14 Min: 42.34	Max: 6.5 Min: 3.6
2	7 inches	22 inches	very channery sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 5.5 Min: 3.6
3	22 inches	26 inches	flaggy sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 141.14 Min: 42.34	Max: 5.5 Min: 3.6
4	26 inches	37 inches	unweathered bedrock	Not reported	Not reported	Max: 42 Min: 4	Max: Min:

Soil Map ID: 9

Soil Component Name: Wharton

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4
2	9 inches	37 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4
3	37 inches	68 inches	channery silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4
4	68 inches	72 inches	weathered bedrock	Not reported	Not reported	Max: 4.34 Min: 0	Max: Min:

Soil Map ID: 10

Soil Component Name: Ernest

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5
2	9 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 4.5
3	16 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4.5
4	25 inches	51 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 5.5 Min: 4.5

Soil Map ID: 11

Soil Component Name: Gilpin

Soil Surface Texture: channery silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
2	7 inches	24 inches	channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
3	24 inches	29 inches	very channery silt loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Clayey Gravel	Max: 14.11 Min: 4.23	Max: 5.5 Min: 3.6
4	29 inches	33 inches	unweathered bedrock	Not reported	Not reported	Max: 14.11 Min: 1.41	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	PASI50000114897	1/4 - 1/2 Mile North
A2	SPAW0070439	1/4 - 1/2 Mile North
B3	PASI50000114932	1/4 - 1/2 Mile ENE
B4	SPAW0070474	1/2 - 1 Mile ENE
5	PASI50000395280	1/2 - 1 Mile North
C6	SPAW0070459	1/2 - 1 Mile NW
C7	PASI50000114917	1/2 - 1 Mile NW
D8	SPAW0070486	1/2 - 1 Mile NW
D9	PASI50000114944	1/2 - 1 Mile NW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

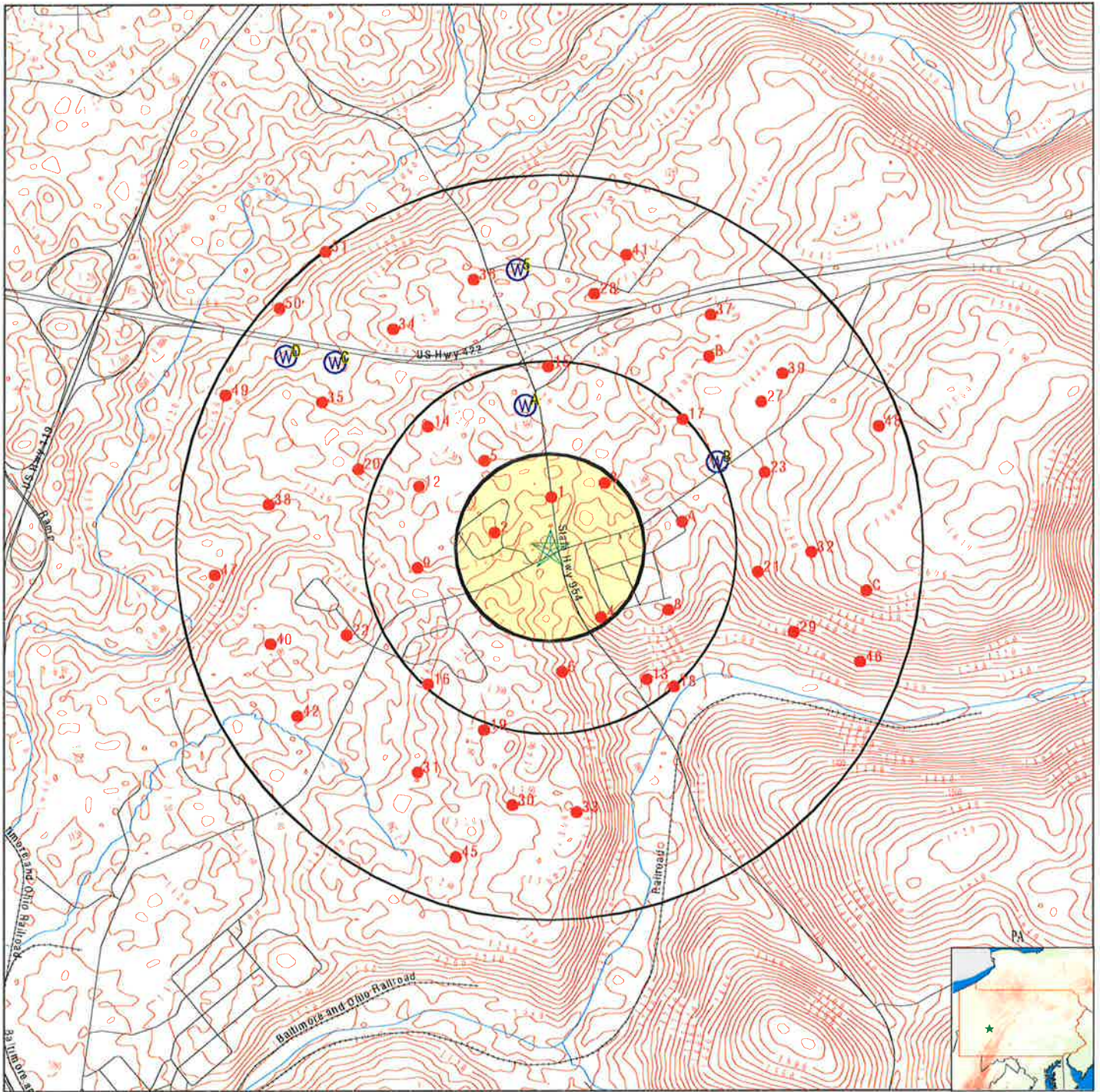
MAP ID	WELL ID	LOCATION FROM TP
1	PAOG60000074382	1/8 - 1/4 Mile North
2	PAOG60000057490	1/8 - 1/4 Mile WNW
3	PAOG60000132304	1/8 - 1/4 Mile NE
4	PAOG60000048014	1/8 - 1/4 Mile SE
5	PAOG60000155463	1/4 - 1/2 Mile NW
6	PAOG60000105164	1/4 - 1/2 Mile South
A7	PAOG60000073426	1/4 - 1/2 Mile ENE
8	PAOG60000045651	1/4 - 1/2 Mile ESE
9	PAOG60000040671	1/4 - 1/2 Mile West
A11	PAOG60000127840	1/4 - 1/2 Mile East
A10	PAOG60000127548	1/4 - 1/2 Mile East
12	PAOG60000027037	1/4 - 1/2 Mile WNW
13	PAOG60000128397	1/4 - 1/2 Mile SE
14	PAOG60000073935	1/4 - 1/2 Mile NW
15	PAOG60000114942	1/4 - 1/2 Mile North
16	PAOG60000115677	1/4 - 1/2 Mile SW
17	PAOG60000065759	1/4 - 1/2 Mile NE
18	PAOG60000110754	1/4 - 1/2 Mile SE
19	PAOG60000127533	1/2 - 1 Mile SSW
20	PAOG60000008681	1/2 - 1 Mile WNW
21	PAOG60000105664	1/2 - 1 Mile East
22	PAOG60000115674	1/2 - 1 Mile WSW
23	PAOG60000082575	1/2 - 1 Mile ENE
B25	PAOG60000139666	1/2 - 1 Mile NE
B26	PAOG60000139667	1/2 - 1 Mile NE
B24	PAOG60000005791	1/2 - 1 Mile NE
27	PAOG60000048013	1/2 - 1 Mile NE
28	PAOG60000115683	1/2 - 1 Mile North
29	PAOG60000058510	1/2 - 1 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
30	PAOG60000103332	1/2 - 1 Mile South
31	PAOG60000000423	1/2 - 1 Mile SSW
32	PAOG60000079475	1/2 - 1 Mile East
33	PAOG60000019873	1/2 - 1 Mile South
34	PAOG60000010064	1/2 - 1 Mile NW
35	PAOG60000105126	1/2 - 1 Mile WNW
36	PAOG60000030150	1/2 - 1 Mile NNW
37	PAOG60000142559	1/2 - 1 Mile NE
38	PAOG60000030141	1/2 - 1 Mile West
39	PAOG60000009372	1/2 - 1 Mile NE
40	PAOG60000115180	1/2 - 1 Mile WSW
41	PAOG60000047294	1/2 - 1 Mile NNE
42	PAOG60000057277	1/2 - 1 Mile WSW
C43	PAOG60000058017	1/2 - 1 Mile East
C44	PAOG60000127148	1/2 - 1 Mile East
45	PAOG60000040711	1/2 - 1 Mile SSW
46	PAOG60000143539	1/2 - 1 Mile ESE
47	PAOG60000122036	1/2 - 1 Mile West
48	PAOG60000048017	1/2 - 1 Mile ENE
49	PAOG60000067829	1/2 - 1 Mile WNW
50	PAOG60000121529	1/2 - 1 Mile NW
51	PAOG60000020149	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 4456268.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME: Vennards Crossroads Convenience
ADDRESS: 4895 Lucerne Road
 Indiana PA 15701
LAT/LONG: 40.5759 / 79.1331

CLIENT: Mountain Research, Inc.
CONTACT: Ryan T. Hill
INQUIRY #: 4456268.2s
DATE: November 03, 2015 2:00 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
North
1/4 - 1/2 Mile
Higher

PA WELLS PASI50000114897

Objectid:	114897	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	1130N	Countycode:	063
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	321GLNS	Topographycode:	S
Welldepth:	85	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	05010007	Latlongaccuracy:	M
Quadcode:	1412	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliabilityc:	L	Sourcedepthdatac:	D
Municipalitycode:	32937		
Latitudedd:	40.5813888888889		
Longitudedd:	-79.1344444444445		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	15
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	01-SEP-84	Pagwis id:	115000
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	114256	Driller scoordme:	0
Latestproduction:	115407	Latestwelluse:	117041
Site id:	PASI50000114897	GeneralCounter:	119096

A2
North
1/4 - 1/2 Mile
Higher

PA WELLS SPAW0070439

Well ID:	1130N	County	INDIANA
Owner's Name:	LAWER M	Longitude:	790804
Latitude:	403453	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	INDIANA	Topographic Setting:	HILLSIDE
Hydrologic Unit:	05010007	Site Usage:	Not Reported
Water Usage:	DOMESTIC	Finish:	OPEN HOLE
Well Depth:	85	Casing1 Diameter(inches):	6
Casing 1:	60	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	09-00-84
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	Not Reported
Yield (gpm):	15	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	1043
Bedrock:	15	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	76	Lithology:	SANDSTONE
Water Bearing Zone 3:	Not Reported	Remark:	Not Reported
Municipality:	WHITE		
Aquifer:	GLENSHAW FORMATION		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

B3
ENE
1/4 - 1/2 Mile
Higher

PA WELLS PASI50000114932

Objectid:	114932	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	1165N	Countycode:	063
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	321GLNS	Topographycode:	S
Welldepth:	124	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	05010007	Latlongaccuracy:	M
Quadcode:	1413	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliabilityc:	L	Sourcedepthdatac:	D
Municipalitycode:	32937		
Latitudedd:	40.5791666666667		
Longitudedd:	-79.1247222222222		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	10-JUN-75	Pagwis id:	115035
Sourcesitedataco:	2	Localpermit:	Not Reported
Latestowner:	114291	Driller scoordme:	0
Latestproduction:	115442	Latestwelluse:	0
Site id:	PASI50000114932	GeneralCounter:	119131

B4
ENE
1/2 - 1 Mile
Higher

PA WELLS SPAW0070474

Well ID:	1165N	County	INDIANA
Owner's Name:	PATTERSON THOMAS	Longitude:	790729
Latitude:	403445	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	BRUSH VALLEY	Topographic Setting:	HILLSIDE
Hydrologic Unit:	05010007	Site Usage:	Not Reported
Water Usage:	Not Reported	Finish:	Not Reported
Well Depth:	124	Casing1 Diameter(inches):	6
Casing 1:	20	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	06-10-75
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	50	Yield Measurement Method:	E
Yield (gpm):	10	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	1369
Bedrock:	Not Reported	Water Bearing Zone 2:	86
Water Bearing Zone 1:	50	Lithology:	SHALE
Water Bearing Zone 3:	Not Reported	Remark:	Not Reported
Municipality:	WHITE		
Aquifer:	GLENSHAW FORMATION		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

5
North
1/2 - 1 Mile
Lower

PA WELLS PASI50000395280

Objectid:	395280	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	Not Reported	Countycode:	063
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	Not Reported	Topographycode:	Not Reported
Welldepth:	142	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	Not Reported	Latlongaccuracy:	Not Reported
Quadcode:	0	Typeofsitecode:	W
Datecreated:	02-SEP-11	Dateupdated:	Not Reported
Datareliability:	Not Reported	Sourcedepthdata:	Not Reported
Municipalitycode:	Not Reported		
Latitudedd:	40.5867		
Longitudedd:	-79.13475		
Welladdress:	420 Risinger Road Indiana, PA		
Wellzipcode:	15701	Depthtobedrock:	0
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	31-AUG-11	Pagwis id:	0
Sourcesitedata:	3	Localpermit:	Not Reported
Latestowner:	7461806	Driller scoordme:	1
Latestproduction:	4486862	Latestwelluse:	7180060
Site id:	PASI50000395280	GeneralCounter:	488538

C6
NW
1/2 - 1 Mile
Lower

PA WELLS SPAW0070459

Well ID:	1150N	County	INDIANA
Owner's Name:	CORATOMIC INC	Longitude:	790839
Latitude:	403459	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	INDIANA	Topographic Setting:	HILLSIDE
Hydrologic Unit:	05010007	Site Usage:	Not Reported
Water Usage:	INDUSTRIAL	Finish:	OTHER
Well Depth:	165	Casing1 Diameter(inches):	6
Casing 1:	20	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	06-22-79
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	V
Yield (gpm):	5.5	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	1043
Bedrock:	12	Water Bearing Zone 2:	Not Reported
Water Bearing Zone 1:	135	Lithology:	LIMESTONE
Water Bearing Zone 3:	Not Reported	Remark:	Not Reported
Municipality:	WHITE		
Aquifer:	GLENSHAW FORMATION		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

C7
NW
1/2 - 1 Mile
Lower

PA WELLS PASI50000114917

Objectid:	114917	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	1150N	Countycode:	063
Latitude:	Not Reported	Longitude:	Not Reported
Aapgcode:	321GLNS	Topographycode:	S
Welldepth:	165	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	05010007	Latlongaccuracy:	M
Quadcode:	1412	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	32937		
Latitudedd:	40.5830555555556		
Longitudedd:	-79.1441666666667		
Welladdress:	Not Reported		
Wellzipcode:	Not Reported	Depthtobedrock:	12
Bedrocknotreache:	0	Saltwaterzone:	0
Datedrilled:	22-JUN-79	Pagwis id:	115020
Sourcesitedata:	2	Localpermit:	Not Reported
Latestowner:	114276	Driller scoordme:	0
Latestproduction:	115427	Latestwelluse:	117061
Site id:	PASI50000114917	GeneralCounter:	119116

D8
NW
1/2 - 1 Mile
Lower

PA WELLS SPAW0070486

Well ID:	1177N	County	INDIANA
Owner's Name:	MOREAY A F	Longitude:	790848
Latitude:	403500	Lat/Long Accuracy:	ACCURATE TO +1 MINUTE
Quadrangle:	INDIANA	Topographic Setting:	HILLSIDE
Hydrologic Unit:	05010007	Site Usage:	WITHDRAWAL
Water Usage:	Not Reported	Finish:	Not Reported
Well Depth:	85	Casing1 Diameter(inches):	6
Casing 1:	27	Casing2 Diameter(inches):	Not Reported
Casing2:	Not Reported	Date Drilled:	12-00-78
Grouted:	Not Reported	Production WL:	Not Reported
Static Water Level:	Not Reported	Yield Measurement Method:	Not Reported
Yield (gpm):	75	Test Time:	Not Reported
Drawdown:	Not Reported	Driller:	1043
Bedrock:	23	Water Bearing Zone 2:	64
Water Bearing Zone 1:	47	Lithology:	SHALE
Water Bearing Zone 3:	Not Reported	Remark:	Not Reported
Municipality:	WHITE		
Aquifer:	GLENSHAW FORMATION		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D9
NW
1/2 - 1 Mile
Lower

PA WELLS PASI50000114944

Objectid:	114944	Depcounter:	-1
Siteid:	Not Reported	Transactioncount:	0
Localwellnumber:	1177N	Countycode:	063
Latitude:	Not Reported	Longitude:	Not Reported
Aappgcode:	321GLNS	Topographycode:	S
Welldepth:	85	Elevation:	0
Elevmethodcode:	Not Reported	Accuracyofelevat:	Not Reported
Hydrologicunit:	05010007	Latlongaccuracy:	M
Quadcode:	1412	Typeofsitecode:	W
Datecreated:	03-FEB-99	Dateupdated:	04-FEB-99
Datareliability:	L	Sourcedepthdata:	D
Municipalitycode:	32937		
Latitudedd:	40.5833333333333		
Longitudedd:	-79.1466666666667		
Welladdress:	Not Reported	Depthtobedrock:	23
Wellzipcode:	Not Reported	Saltwaterzone:	0
Bedrocknotreache:	0	Pagwis id:	115047
Datedrilled:	01-DEC-78	Localpermit:	Not Reported
Sourcesitedataco:	2	Driller scoordme:	0
Latestowner:	114303	Latestwelluse:	117086
Latestproduction:	115453	GeneralCounter:	119143
Site id:	PASI50000114944		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
North
1/8 - 1/4 Mile

OIL_GAS PAOG60000074382

Organizati: XTO ENERGY INC
Client nam: XTO ENERGY INC
Site name: AC IRWIN 2C479 WELL
Primary fa: A C IRWIN 2C479
Client id: 265476
Pasite id: 118767
Primary 1: 120670
Sub facili: A C IRWIN 2C479
Sub faci 1: 76614
Primary 2: Oil & Gas Location
Primary 3: Coal
Other faci: 063-24922
Sub faci 2: Well
Sother id: 063-24922
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000074382

2
WNW
1/8 - 1/4 Mile

OIL_GAS PAOG60000057490

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: ROBERT STRONG 3 WELL
Primary fa: ROBERT STRONG 3
Client id: 244896
Pasite id: 118521
Primary 1: 120423
Sub facili: ROBERT STRONG 3
Sub faci 1: 76368
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-24663
Sub faci 2: Well
Sother id: 063-24663
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000057490

3
NE
1/8 - 1/4 Mile

OIL_GAS PAOG60000132304

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	O F HILL 34 1 WELL		
Primary fa:	O F HILL (34) 1		
Client id:	244896		
Pasite id:	117067		
Primary 1:	118967		
Sub facili:	O F HILL (34) 1		
Sub faci 1:	74913		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23167		
Sub faci 2:	Well		
Sother id:	063-23167		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000132304

4
SE
1/8 - 1/4 Mile

OIL_GAS **PAOG60000048014**

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	ROBERT STRONG 133A 2 WELL		
Primary fa:	ROBERT STRONG (133A) 2		
Client id:	244896		
Pasite id:	121539		
Primary 1:	123445		
Sub facili:	ROBERT STRONG (133A) 2		
Sub faci 1:	79407		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-27803		
Sub faci 2:	Well		
Sother id:	063-27803		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000048014

5
NW
1/4 - 1/2 Mile

OIL_GAS **PAOG60000155463**

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	O F HILL 40A 2 WELL		
Primary fa:	O F HILL (40A) 2		
Client id:	244896		
Pasite id:	121699		
Primary 1:	123605		
Sub facili:	O F HILL (40A) 2		
Sub faci 1:	79567		
Primary 2:	Oil & Gas Location		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary 3:	NonCoal		
Other faci:	063-27975		
Sub faci 2:	Well		
Sother id:	063-27975		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000155463

6 South 1/4 - 1/2 Mile

OIL_GAS PAOG60000105164

Organizati:	SNYDER BROS INC		
Client nam:	SNYDER BROS INC		
Site name:	CHARLES SNYDER 1 WELL		
Primary fa:	CHARLES SNYDER 1		
Client id:	63561		
Pasite id:	118005		
Primary 1:	119907		
Sub facili:	CHARLES SNYDER 1		
Sub faci 1:	75851		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-24132		
Sub faci 2:	Well		
Sother id:	063-24132		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000105164

A7 ENE 1/4 - 1/2 Mile

OIL_GAS PAOG60000073426

Organizati:	Unavailable		
Client nam:	WALKER J C		
Site name:	H C GRIFFITH 1 WELL		
Primary fa:	H C GRIFFITH 1		
Client id:	70816		
Pasite id:	113996		
Primary 1:	115897		
Sub facili:	H C GRIFFITH 1		
Sub faci 1:	71841		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-20074		
Sub faci 2:	Well		
Sother id:	063-20074		
Client rel:	Owner		
Site statu:	Inactive		
Primary 4:	Plugged OG Well		
Sub faci 3:	361		
Compliance:	YES	Site id:	PAOG60000073426

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

8

ESE

1/4 - 1/2 Mile

OIL_GAS

PAOG60000045651

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: R F STRONG 133A 4 WELL
Primary fa: R F STRONG (133A) 4
Client id: 244896
Pasite id: 121698
Primary 1: 123604
Sub facili: R F STRONG (133A) 4
Sub faci 1: 79566
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-27974
Sub faci 2: Well
Sother id: 063-27974
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id:

PAOG60000045651

9

West

1/4 - 1/2 Mile

OIL_GAS

PAOG60000040671

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: CHARLES F SUNDBURG 2 WELL
Primary fa: CHARLES F SUNDBURG 2
Client id: 244896
Pasite id: 116956
Primary 1: 118856
Sub facili: CHARLES F SUNDBURG 2
Sub faci 1: 74802
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-23057
Sub faci 2: Well
Sother id: 063-23057
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id:

PAOG60000040671

A11

East

1/4 - 1/2 Mile

OIL_GAS

PAOG60000127840

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	ROBERT STRONG 133A 4 WELL		
Primary fa:	ROBERT STRONG (133A) 4		
Client id:	244896		
Pasite id:	121614		
Primary 1:	123520		
Sub facili:	ROBERT STRONG (133A) 4		
Sub faci 1:	1055661		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-27885		
Sub faci 2:	Well		
Sother id:	063-27885		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000127840

A10 East 1/4 - 1/2 Mile

OIL_GAS PAOG60000127548

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	ROBERT STRONG 133A 4 WELL		
Primary fa:	ROBERT STRONG (133A) 4		
Client id:	244896		
Pasite id:	121614		
Primary 1:	123520		
Sub facili:	ROBERT STRONG (133A) 4		
Sub faci 1:	79482		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-27885		
Sub faci 2:	Well		
Sother id:	063-27885		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000127548

12 WNW 1/4 - 1/2 Mile

OIL_GAS PAOG60000027037

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	O F HILL 40A 3 WELL		
Primary fa:	O F HILL (40A) 3		
Client id:	244896		
Pasite id:	122077		
Primary 1:	123984		
Sub facili:	O F HILL (40A) 3		
Sub faci 1:	79956		
Primary 2:	Oil & Gas Location		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary 3:	Coal		
Other faci:	063-28380		
Sub faci 2:	Well		
Sother id:	063-28380		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000027037

13
SE

1/4 - 1/2 Mile

OIL_GAS

PAOG60000128397

Organizati:	EXOTIC OIL & GAS LLC		
Client nam:	EXOTIC OIL & GAS LLC		
Site name:	MYSTIC BROOKE 7 OG WELL		
Primary fa:	MYSTIC BROOKE 7		
Client id:	147590		
Pasite id:	663285		
Primary 1:	673883		
Sub facili:	MYSTIC BROOKE 7		
Sub faci 1:	908301		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-34511		
Sub faci 2:	Well		
Sother id:	063-34511		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000128397

14
NW

1/4 - 1/2 Mile

OIL_GAS

PAOG60000073935

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	O F HILL 1 WELL		
Primary fa:	O F HILL 1		
Client id:	244896		
Pasite id:	116955		
Primary 1:	118855		
Sub facili:	O F HILL 1		
Sub faci 1:	74801		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23056		
Sub faci 2:	Well		
Sother id:	063-23056		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000073935

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

15
North
1/4 - 1/2 Mile

OIL_GAS PAOG60000114942

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: HARRY D HILL 1 WELL
Primary fa: HARRY D HILL 1
Client id: 244896
Pasite id: 117078
Primary 1: 118979
Sub facili: HARRY D HILL 1
Sub faci 1: 74924
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-23178
Sub faci 2: Well
Sother id: 063-23178
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000114942

16
SW
1/4 - 1/2 Mile

OIL_GAS PAOG60000115677

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: C F SUNDBERG 4C312 WELL
Primary fa: C F SUNDBERG 4C312
Client id: 244896
Pasite id: 121513
Primary 1: 123419
Sub facili: C F SUNDBERG 4C312
Sub faci 1: 79381
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-27777
Sub faci 2: Well
Sother id: 063-27777
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000115677

17
NE
1/4 - 1/2 Mile

OIL_GAS PAOG60000065759

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	HARRY A SHEARER 1 WELL		
Primary fa:	HARRY A SHEARER 1		
Client id:	244896		
Pasite id:	119345		
Primary 1:	121248		
Sub facili:	HARRY A SHEARER 1		
Sub faci 1:	77192		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-25517		
Sub faci 2:	Well		
Sother id:	063-25517		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000065759

18
SE
1/4 - 1/2 Mile

OIL_GAS **PAOG60000110754**

Organizati:	EXOTIC OIL & GAS LLC		
Client nam:	EXOTIC OIL & GAS LLC		
Site name:	MYSTIC BROOKE 7 OG WELL		
Primary fa:	MYSTIC BROOKE 7		
Client id:	147590		
Pasite id:	650351		
Primary 1:	664010		
Sub facili:	MYSTIC BROOKE 7		
Sub faci 1:	845079		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-34166		
Sub faci 2:	Well		
Sother id:	063-34166		
Client rel:	Owner		
Site statu:	Proposed But Never Materialized		
Primary 4:	Operator Reported Not Drilled		
Sub faci 3:	401		
Compliance:	YES	Site id:	PAOG60000110754

19
SSW
1/2 - 1 Mile

OIL_GAS **PAOG60000127533**

Organizati:	XTO ENERGY INC		
Client nam:	XTO ENERGY INC		
Site name:	ROCHESTER & PGH COAL FORMERLY 1 WELL		
Primary fa:	ROCHESTER & PGH COAL CO FMLY FM LOWR 1		
Client id:	265476		
Pasite id:	117760		
Primary 1:	119661		
Sub facili:	ROCHESTER & PGH COAL CO FMLY FM LOWR 1		
Sub faci 1:	75606		
Primary 2:	Oil & Gas Location		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary 3:	NonCoal		
Other faci:	063-23883		
Sub faci 2:	Well		
Sother id:	063-23883		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000127533

20 WNW

1/2 - 1 Mile

OIL_GAS

PAOG60000008681

Organizati:	PETRO DEV CORP		
Client nam:	PETRO DEV CORP		
Site name:	F M DILLS 3 OG WELL		
Primary fa:	F M DILLS 3		
Client id:	88268		
Pasite id:	718831		
Primary 1:	717431		
Sub facili:	F M DILLS 3		
Sub faci 1:	987800		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-36511		
Sub faci 2:	Well		
Sother id:	063-36511		
Client rel:	Owner		
Site statu:	Proposed But Never Materialized		
Primary 4:	Operator Reported Not Drilled		
Sub faci 3:	401		
Compliance:	YES	Site id:	PAOG60000008681

21

East

1/2 - 1 Mile

OIL_GAS

PAOG60000105664

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	R STRONG 133A 5 WELL		
Primary fa:	R STRONG (133A) 5		
Client id:	244896		
Pasite id:	121730		
Primary 1:	123636		
Sub facili:	R STRONG (133A) 5		
Sub faci 1:	79598		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-28010		
Sub faci 2:	Well		
Sother id:	063-28010		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000105664

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

22
WSW

OIL_GAS PAOG60000115674

1/2 - 1 Mile

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: C P SUNDBERG 3 WELL
Primary fa: C P SUNDBERG 3
Client id: 244896
Pasite id: 121446
Primary 1: 123352
Sub facili: C P SUNDBERG 3
Sub faci 1: 79314
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-27709
Sub faci 2: Well
Sother id: 063-27709
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000115674

23
ENE

OIL_GAS PAOG60000082575

1/2 - 1 Mile

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: ROBERT STRONG 3 WELL
Primary fa: ROBERT STRONG 3
Client id: 244896
Pasite id: 118524
Primary 1: 120426
Sub facili: ROBERT STRONG 3
Sub faci 1: 76371
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-24666
Sub faci 2: Well
Sother id: 063-24666
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000082575

B25
NE

OIL_GAS PAOG60000139666

1/2 - 1 Mile

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Organizati:	PENTEX ENERGY INC		
Client nam:	PENTEX ENERGY INC		
Site name:	DE RISINGER 3 OG WELL		
Primary fa:	D.E. RISINGER 3		
Client id:	48681		
Pasite id:	124683		
Primary 1:	126590		
Sub facili:	D.E. RISINGER 3		
Sub faci 1:	82565		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-31462		
Sub faci 2:	Well		
Sother id:	063-31462		
Client rel:	Owner		
Site statu:	Proposed But Never Materialized		
Primary 4:	Operator Reported Not Drilled		
Sub faci 3:	401		
Compliance:	YES	Site id:	PAOG60000139666

**B26
NE**

1/2 - 1 Mile

OIL_GAS

PAOG60000139667

Organizati:	PENTEX ENERGY INC		
Client nam:	PENTEX ENERGY INC		
Site name:	LOWRY 7 WELL		
Primary fa:	LOWRY 7		
Client id:	48681		
Pasite id:	124700		
Primary 1:	126607		
Sub facili:	LOWRY 7		
Sub faci 1:	82582		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-31480		
Sub faci 2:	Well		
Sother id:	063-31480		
Client rel:	Owner		
Site statu:	Proposed But Never Materialized		
Primary 4:	Operator Reported Not Drilled		
Sub faci 3:	401		
Compliance:	YES	Site id:	PAOG60000139667

**B24
NE**

1/2 - 1 Mile

OIL_GAS

PAOG60000005791

Organizati:	PENTEX ENERGY INC
Client nam:	PENTEX ENERGY INC
Site name:	EVANS 3 WELL
Primary fa:	EVANS 3
Client id:	48681
Pasite id:	124685
Primary 1:	126592
Sub facili:	EVANS 3
Sub faci 1:	82567
Primary 2:	Oil & Gas Location

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary 3:	Coal		
Other faci:	063-31464		
Sub faci 2:	Well		
Sother id:	063-31464		
Client rel:	Owner		
Site statu:	Proposed But Never Materialized		
Primary 4:	Operator Reported Not Drilled		
Sub faci 3:	401		
Compliance:	YES	Site id:	PAOG60000005791

27
NE

1/2 - 1 Mile

OIL_GAS

PAOG60000048013

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	BERTHA SHEARER FORMERLY HARRY S 3 WELL		
Primary fa:	BERTHA SHEARER (FMLY HARRY SHEARER) 3		
Client id:	244896		
Pasite id:	121520		
Primary 1:	123426		
Sub facili:	BERTHA SHEARER (FMLY HARRY SHEARER) 3		
Sub faci 1:	79388		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-27784		
Sub faci 2:	Well		
Sother id:	063-27784		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000048013

28

North

1/2 - 1 Mile

OIL_GAS

PAOG60000115683

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	W L CRAMER 4 WELL		
Primary fa:	W L CRAMER 4		
Client id:	244896		
Pasite id:	121729		
Primary 1:	123635		
Sub facili:	W L CRAMER 4		
Sub faci 1:	79597		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-28009		
Sub faci 2:	Well		
Sother id:	063-28009		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000115683

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

29
ESE
1/2 - 1 Mile

OIL_GAS PAOG60000058510

Organizati: EXOTIC OIL & GAS LLC
Client nam: EXOTIC OIL & GAS LLC
Site name: MYSTIC BROOKE 2 OG WELL
Primary fa: MYSTIC BROOKE 2
Client id: 147590
Pasite id: 639235
Primary 1: 654464
Sub facili: MYSTIC BROOKE 2
Sub faci 1: 805571
Primary 2: Oil & Gas Location
Primary 3: Coal
Other faci: 063-34004
Sub faci 2: Well
Sother id: 063-34004
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000058510

30
South
1/2 - 1 Mile

OIL_GAS PAOG60000103332

Organizati: SNYDER BROS INC
Client nam: SNYDER BROS INC
Site name: CHARLES SNYDER 2 WELL
Primary fa: CHARLES SNYDER 2
Client id: 63561
Pasite id: 118006
Primary 1: 119908
Sub facili: CHARLES SNYDER 2
Sub faci 1: 75852
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-24133
Sub faci 2: Well
Sother id: 063-24133
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000103332

31
SSW
1/2 - 1 Mile

OIL_GAS PAOG60000000423

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Organizati:	XTO ENERGY INC		
Client nam:	XTO ENERGY INC		
Site name:	R & P COAL FORMERLY FM LOWRY 2 WELL		
Primary fa:	R&P COAL CO FMLY F M LOWRY 2		
Client id:	265476		
Pasite id:	117761		
Primary 1:	119662		
Sub facili:	R&P COAL CO FMLY F M LOWRY 2		
Sub faci 1:	75607		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23884		
Sub faci 2:	Well		
Sother id:	063-23884		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000000423

32 East 1/2 - 1 Mile

OIL_GAS PAOG60000079475

Organizati:	CHRISTINE MARIE EXPLORATION LP		
Client nam:	CHRISTINE MARIE EXPLORATION LP		
Site name:	MYSTIC BROOKE 8 OG WELL		
Primary fa:	MYSTIC BROOKE 8		
Client id:	227462		
Pasite id:	651573		
Primary 1:	664951		
Sub facili:	MYSTIC BROOKE 8		
Sub faci 1:	889901		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-34211		
Sub faci 2:	Well		
Sother id:	063-34211		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000079475

33 South 1/2 - 1 Mile

OIL_GAS PAOG60000019873

Organizati:	SNYDER BROS INC		
Client nam:	SNYDER BROS INC		
Site name:	CHARLES SNYDER 3 WELL		
Primary fa:	CHARLES SNYDER 3		
Client id:	63561		
Pasite id:	118009		
Primary 1:	119911		
Sub facili:	CHARLES SNYDER 3		
Sub faci 1:	75855		
Primary 2:	Oil & Gas Location		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary 3:	Coal		
Other faci:	063-24136		
Sub faci 2:	Well		
Sother id:	063-24136		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000019873

**34
NW**

1/2 - 1 Mile

OIL_GAS

PAOG60000010064

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	HARRY D HILL 3 WELL		
Primary fa:	HARRY D HILL 3		
Client id:	244896		
Pasite id:	117131		
Primary 1:	119032		
Sub facili:	HARRY D HILL 3		
Sub faci 1:	74977		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23231		
Sub faci 2:	Well		
Sother id:	063-23231		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000010064

35

WNW

1/2 - 1 Mile

OIL_GAS

PAOG60000105126

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	M F DILLS JR FMLY M H GEORG 2 WELL		
Primary fa:	M F DILLS JR (FMLY M H GEORGE) 2		
Client id:	244896		
Pasite id:	116954		
Primary 1:	118854		
Sub facili:	M F DILLS JR (FMLY M H GEORGE) 2		
Sub faci 1:	74800		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23055		
Sub faci 2:	Well		
Sother id:	063-23055		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000105126

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

36
NNW
1/2 - 1 Mile

OIL_GAS PAOG60000030150

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: HARRY D HILL 2 WELL
Primary fa: HARRY D HILL 2
Client id: 244896
Pasite id: 117130
Primary 1: 119031
Sub facili: HARRY D HILL 2
Sub faci 1: 74976
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-23230
Sub faci 2: Well
Sother id: 063-23230
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000030150

37
NE
1/2 - 1 Mile

OIL_GAS PAOG60000142559

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: HARRY A SHEARER 2 WELL
Primary fa: HARRY A SHEARER 2
Client id: 244896
Pasite id: 119346
Primary 1: 121249
Sub facili: HARRY A SHEARER 2
Sub faci 1: 77193
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-25518
Sub faci 2: Well
Sother id: 063-25518
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000142559

38
West
1/2 - 1 Mile

OIL_GAS PAOG60000030141

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	M F DILLS JR FMLY M H GEORG 1 WELL		
Primary fa:	M F DILLS JR (FMLY M H GEORGE) 1		
Client id:	244896		
Pasite id:	116953		
Primary 1:	118853		
Sub facili:	M F DILLS JR (FMLY M H GEORGE) 1		
Sub faci 1:	74799		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23054		
Sub faci 2:	Well		
Sother id:	063-23054		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000030141

39
NE
1/2 - 1 Mile

OIL_GAS PAOG60000009372

Organizati:	Unavailable		
Client nam:	WALKER J C		
Site name:	HARRY A SHEARER 1 WELL		
Primary fa:	HARRY A SHEARER 1		
Client id:	70816		
Pasite id:	114017		
Primary 1:	115918		
Sub facili:	HARRY A SHEARER 1		
Sub faci 1:	71862		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-20095		
Sub faci 2:	Well		
Sother id:	063-20095		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000009372

40
WSW
1/2 - 1 Mile

OIL_GAS PAOG60000115180

Organizati:	XTO ENERGY INC		
Client nam:	XTO ENERGY INC		
Site name:	ROCHESTER & PGH COAL FORMERLY 5 WELL		
Primary fa:	ROCHESTER & PGH COAL CO FMLY F M LOW 5		
Client id:	265476		
Pasite id:	117946		
Primary 1:	119848		
Sub facili:	ROCHESTER & PGH COAL CO FMLY F M LOW 5		
Sub faci 1:	75792		
Primary 2:	Oil & Gas Location		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary 3:	NonCoal		
Other faci:	063-24073		
Sub faci 2:	Well		
Sother id:	063-24073		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000115180

41
NNE

1/2 - 1 Mile

OIL_GAS

PAOG60000047294

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	W L CRAMER 1 WELL		
Primary fa:	W L CRAMER 1		
Client id:	244896		
Pasite id:	117142		
Primary 1:	119043		
Sub facili:	W L CRAMER 1		
Sub faci 1:	74988		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23242		
Sub faci 2:	Well		
Sother id:	063-23242		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000047294

42
WSW

1/2 - 1 Mile

OIL_GAS

PAOG60000057277

Organizati:	XTO ENERGY INC		
Client nam:	XTO ENERGY INC		
Site name:	ROCHESTER & PGH COAL FORMERLY 3 WELL		
Primary fa:	ROCHESTER & PGH COAL CO FMLY F M LOW 3		
Client id:	265476		
Pasite id:	117784		
Primary 1:	119685		
Sub facili:	ROCHESTER & PGH COAL CO FMLY F M LOW 3		
Sub faci 1:	75630		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23909		
Sub faci 2:	Well		
Sother id:	063-23909		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000057277

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

C43
East
1/2 - 1 Mile

OIL_GAS PAOG60000058017

Organizati: CHRISTINE MARIE EXPLORATION LP
Client nam: CHRISTINE MARIE EXPLORATION LP
Site name: MYSTIC BROOKE 1 OG WELL
Primary fa: MYSTIC BROOKE 1
Client id: 227462
Pasite id: 633600
Primary 1: 650181
Sub facili: MYSTIC BROOKE 1
Sub faci 1: 797302
Primary 2: Oil & Gas Location
Primary 3: Coal
Other faci: 063-33827
Sub faci 2: Well
Sother id: 063-33827
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000058017

C44
East
1/2 - 1 Mile

OIL_GAS PAOG60000127148

Organizati: CHRISTINE MARIE EXPLORATION LP
Client nam: CHRISTINE MARIE EXPLORATION LP
Site name: MYSTIC BROOKE 1B OG WELL
Primary fa: MYSTIC BROOKE 1B
Client id: 227462
Pasite id: 649556
Primary 1: 663321
Sub facili: MYSTIC BROOKE 1B
Sub faci 1: 843748
Primary 2: Oil & Gas Location
Primary 3: Coal
Other faci: 063-34138
Sub faci 2: Well
Sother id: 063-34138
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000127148

45
SSW
1/2 - 1 Mile

OIL_GAS PAOG60000040711

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Organizati:	XTO ENERGY INC		
Client nam:	XTO ENERGY INC		
Site name:	ROCHESTER & PGH COAL FORMERLY 1 WELL		
Primary fa:	ROCHESTER & PGH COAL CO FMLY D R GRI 1		
Client id:	265476		
Pasite id:	117842		
Primary 1:	119743		
Sub facili:	ROCHESTER & PGH COAL CO FMLY D R GRI 1		
Sub faci 1:	75688		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-23968		
Sub faci 2:	Well		
Sother id:	063-23968		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000040711

46
ESE

1/2 - 1 Mile

OIL_GAS

PAOG60000143539

Organizati:	EXOTIC OIL & GAS LLC		
Client nam:	EXOTIC OIL & GAS LLC		
Site name:	MYSTIC BROOKE 3 OG WELL		
Primary fa:	MYSTIC BROOKE 3		
Client id:	147590		
Pasite id:	639339		
Primary 1:	654525		
Sub facili:	MYSTIC BROOKE 3		
Sub faci 1:	805700		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-34005		
Sub faci 2:	Well		
Sother id:	063-34005		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000143539

47

West

1/2 - 1 Mile

OIL_GAS

PAOG60000122036

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	E B CAMPBELL 26A 1 WELL		
Primary fa:	E B CAMPBELL (26A) 1		
Client id:	244896		
Pasite id:	121035		
Primary 1:	122941		
Sub facili:	E B CAMPBELL (26A) 1		
Sub faci 1:	78903		
Primary 2:	Oil & Gas Location		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Primary 3:	NonCoal		
Other faci:	063-27273		
Sub faci 2:	Well		
Sother id:	063-27273		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000122036

48
ENE

1/2 - 1 Mile

OIL_GAS

PAOG60000048017

Organizati:	ALLIANCE PETROLEUM CORP		
Client nam:	ALLIANCE PETROLEUM CORP		
Site name:	ROBERT F STRONG 1 WELL		
Primary fa:	ROBERT F STRONG 1		
Client id:	244896		
Pasite id:	121717		
Primary 1:	123623		
Sub facili:	ROBERT F STRONG 1		
Sub faci 1:	79585		
Primary 2:	Oil & Gas Location		
Primary 3:	NonCoal		
Other faci:	063-27997		
Sub faci 2:	Well		
Sother id:	063-27997		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000048017

49

WNW

1/2 - 1 Mile

OIL_GAS

PAOG60000067829

Organizati:	XTO ENERGY INC		
Client nam:	XTO ENERGY INC		
Site name:	AC IRWIN 1C478 WELL		
Primary fa:	A C IRWIN 1C478		
Client id:	265476		
Pasite id:	118766		
Primary 1:	120669		
Sub facili:	A C IRWIN 1C478		
Sub faci 1:	76613		
Primary 2:	Oil & Gas Location		
Primary 3:	Coal		
Other faci:	063-24921		
Sub faci 2:	Well		
Sother id:	063-24921		
Client rel:	Owner		
Site statu:	Active		
Primary 4:	Active		
Sub faci 3:	4		
Compliance:	YES	Site id:	PAOG60000067829

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

50
NW
1/2 - 1 Mile

OIL_GAS PAOG60000121529

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: HARRY D HILL 4 WELL
Primary fa: HARRY D HILL 4
Client id: 244896
Pasite id: 117132
Primary 1: 119033
Sub facili: HARRY D HILL 4
Sub faci 1: 74978
Primary 2: Oil & Gas Location
Primary 3: NonCoal
Other faci: 063-23232
Sub faci 2: Well
Sother id: 063-23232
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000121529

51
NW
1/2 - 1 Mile

OIL_GAS PAOG60000020149

Organizati: ALLIANCE PETROLEUM CORP
Client nam: ALLIANCE PETROLEUM CORP
Site name: H D HILL 5 WELL
Primary fa: H D HILL 5
Client id: 244896
Pasite id: 121099
Primary 1: 123005
Sub facili: H D HILL 5
Sub faci 1: 78967
Primary 2: Oil & Gas Location
Primary 3: Coal
Other faci: 063-27341
Sub faci 2: Well
Sother id: 063-27341
Client rel: Owner
Site statu: Active
Primary 4: Active
Sub faci 3: 4
Compliance: YES

Site id: PAOG60000020149

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: PA Radon

Radon Test Results

Zipcode	Num Tests	Min pCi/L	Max pCi/L	Avg pCi/L
15701	1613	0.1	165.1	7

EPA Region 3 Statistical Summary Readings for Zip Code: 15701

Number of sites tested: 577.

Maximum Radon Level: 104.3 pCi/L.

Minimum Radon Level: 0.2 pCi/L.

pCi/L <4	pCi/L 4-10	pCi/L 10-20	pCi/L 20-50	pCi/L 50-100	pCi/L >100
333 (57.71%)	154 (26.69%)	51 (8.84%)	31 (5.37%)	7 (1.21%)	1 (0.17%)

Federal EPA Radon Zone for INDIANA County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Pennsylvania Public Water Supply Wells

Source: Pennsylvania Department of Environmental Resources Bureau of Water Supply

Telephone: 717-787-5017

Pennsylvania Groundwater Information System

Source: Department of Conservation and Natural Resources

Telephone: 717-702-2045

OTHER STATE DATABASE INFORMATION

Pennsylvania Oil and Gas Locations

Source: Pennsylvania Department of Environmental Protection

Telephone: 814-863-0104

An Oil and Gas Location is a DEP primary facility type related to the Oil & Gas Program. The sub-facility types related to Oil and Gas that are included in this layer are: Land Application -- An area where drilling cuttings or waste are disposed by land application; Well-- A well associated with oil and/or gas production; Pit -- An approved pit that is used for storage of oil and gas well fluids. Some sub facility types are not included in this layer due to security policies.

RADON

State Database: PA Radon

Source: Department of Environmental Protection

Telephone: 717-783-3594

Radon Test Results Statistics by Zip Code

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Region 3 Statistical Summary Readings

Source: Region 3 EPA

Telephone: 215-814-2082

Radon readings for Delaware, D.C., Maryland, Pennsylvania, Virginia and West Virginia.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX E
FIELD METHODS

Drilling, Soil Sampling, Well Construction Methods

Boring/monitoring well locations were selected based on site physical constraints (i.e., overhead and underground utilities, property boundaries, locations of removed tanks and distribution system, and structures). In addition to the location of potential soil and ground water contamination, borings were advanced during the site study using the following drilling methods:

Air Rotary

Air rotary drill rigs were used to advance borings for monitoring well installation. Boring diameters ranged from 10 inches to 8 inches in diameter. Soil/monitoring boring logs were constructed by identification of drill cuttings using the Unified Soil Classification System (USCS).

Hollow Stem Auger

Hollow stem auger drilling was used to advance borings for the purpose of collecting soil samples and to install monitoring wells. The auger size used was 4 inch inside diameter (7.25 inch outside diameter). Boring logs were constructed by direct observation of the split spoon and core soil samples. Soils were described using the USCS.

Direct Push Drilling

Direct push drilling was used to collect soil samples using a continuous core. Soil samples were collected in a 5 foot x 2 inch diameter PVC tube. Lithologic logs were constructed by direct observation of the continuous soil sampling liners. Soils were described using the USCS.

Soil Sample Collection

Drill cuttings from air rotary borings were scanned for volatile organic compounds (VOCs) using a photoionization detector (PID). However, these PID measurements from the air rotary drilling method should be considered qualitative due to the high potential for volatilization of compounds in the air stream. Also, the air stream was scanned during drilling advancement in order to monitor breathing zones for health and safety protocol.

Soil samples from hollow steam auger and direct push borings were screened for VOCs using a PID. Soil samples were collected from each boring on the basis of PID measurements and visual observations. Soil samples were collected for VOC by inserting an Encore® sampler or TerraCore® Sampler into the soil core. The soil from the sampler was deposited in a laboratory provided 40-milliliter glass container and preserved with methanol. For semi-volatile analysis soils were collected into a laboratory provided 4-ounce glass jar. The samples were labeled, stored in a chilled cooler, and transported to the analytical laboratory under a chain of custody.

Monitoring Well Construction

Monitoring wells were constructed of 2 inch or 4 inch diameter PVC/Steel/Wire Wrap casing. Screened intervals were constructed of .010 machine slotted casing. Appropriately sized PVC blank riser extended wells to the ground surface. The annuli between the boreholes and screened intervals was packed with clean quartz sand. The sand pack was extended approximately two feet above the top of the screened interval. The remaining vertical interval above the sand pack was Bentonite sealed to the surface. Each well was completed in a flush mounted manway.

Groundwater Sampling Methods

The sample collection methodology used by Mountain Research was designed to comply with US Environmental Protection Agency (EPA) SW-846 protocol and the Pennsylvania Groundwater Monitoring Guidance Manual, December 1, 2001. Prior to sampling, all field sampling equipment was properly cleaned to avoid sample contamination. The static water level (SWL) of each well was measured as the first step in sampling. These measurements were used to calculate groundwater elevation at each well.

Each well was purged of at least three well volumes of fluid, or until the monitoring well went dry, using a submersible pump or dedicated disposable bailer. Samples were then collected using the dedicated disposable bailer. Groundwater was decanted from the bailer into appropriate, laboratory supplied containers. The samples were labeled and stored in an ice cooler for transport to the analytical laboratory.

Soil Vapor Sampling Methods

The sample collection methodology used by Mountain Research was based on vapor intrusion technical guidance provided by Pennsylvania Department Environmental Protection (PADEP), as well as generally accepted procedures and protocols. Soil vapor samples are taken from permanent vapor implants unless otherwise indicated. Refer to the direct push and vapor implant installation methodology for a description of the installation process. Following install, vapor sample points are permitted to equilibrate for at minimum two (2) week rest period, unless site specific conditions or scenarios warrant more immediate sampling. Each vapor sampling point is purged of at least 3 air volumes (determined by the size of the void or implant area), or for 5 minutes, at 0.1 liters per minute with a high volume pump, prior to sample collection. Purge rates and volumes are recorded within field forms for reference and documentation.

Samples intended for TO-15 method analysis (volatile organic compounds) are collected within laboratory certified 6-liter Summa / Silco canisters using laboratory calibrated sample compositors with a valve and gauge assembly. Tubing is used to connect the vapor sample point to the sampling canister. The valve and gauge assembly are used to determine initial and final vacuum pressures of the sample canisters throughout the sampling period. Samples are drawn into the can over a predetermined sampling period, ranging anywhere between two (2) minutes to 24 hours. Barring unforeseeable equipment malfunction or site constraints, canisters are filled to a final vacuum of -3 to -5 inches of mercury (inHg).

Soil Vapor Sampling Methods (continued)

Soil vapor sampling field documentation includes the following; approximate purge rate, volume and time, canister initial vacuum level, sample start time, canister final vacuum in the level, sample end time, canister ID, compositor ID and any other pertinent information specific to the sampling event. The canister intake is secured following sample collection, and the canister is labeled and transported for laboratory analysis under chain of custody. A duplicate sample is collected each sampling event for quality assurance purposes, and the location is selected at random.

APPENDIX F

GEOPHYSICS REPORT

VIA EMAIL: mkern@mountainresearch.com

June 15, 2016

Michael Kern, PG
Mountain Research LLC
825 25th Street
Altoona, PA 16601
(814) 949-2034

**Re: Geophysical Survey Report
4985 Lucerne Road
Indiana, Pennsylvania
THG Project No. 213-6182**

Dear Mr. Kern:

THG Geophysics, Ltd. (THG) conducted a geophysical survey at the property located at 4985 Lucerne Road located in Indiana, Pennsylvania on June 1, 2016 (Figure 1). The survey was performed to clear proposed boring locations and explore for potential undocumented underground storage tanks (USTs). THG utilized time-domain electromagnetic (TDEM) imaging techniques and ground penetrating radar (GPR) to image the subsurface of the property (Figures 2-3).

TDEM data were collected over all accessible areas of the property. TDEM imaging detects metal by utilizing a transmitter antenna that emits a pulsed electromagnetic signal and a receiver that measures the slow decay of energy from excited ferrous and non-ferrous sources (in milli-Volts). A Geonics EM-61 integrated with a Trimble Geo7X global positioning system was used to complete this survey.

GPR data were collected over the same areas as the TDEM survey, specifically targeting anomalous areas exhibited in the TDEM data. The GPR unit operates by transmitting radar waves (microwave band) downward from a transmitting antenna and receives the reflected energy at the receiving antenna. The reflected signal is output digitally and displayed as a radar-gram. Any contrast in dielectric properties show up as reflecting boundaries. Subsurface soils containing electrically conductive materials (i.e. clays, groundwater, slag) rapidly attenuate the radar signal and therefore decrease penetration depth. A Sensors and Software Noggin GPR equipped with a 250 MHz antenna array was used to image to a depth of approximately 4 feet below grade.

THG's findings and conclusions are:

- A geophysical survey of the property located at 4985 Lucerne Road located in Indiana, Pennsylvania was completed using TDEM and GPR on June 1, 2016 (Figure 1);
- The location of the existing USTs were confirmed (Figures 2-3);
- No indications of undocumented USTs were identified in the dataset (Figures 2-3);

- The location of several subsurface utilities were confirmed and located (Figure 3);
- Due to soils conditions, the continuation of sewer line utilities could not be mapped in the western portion of the site (Figure 3) and documented drain tiles near the building were not mapped.

Should you have any questions or require additional information, please contact our office at (724) 325-3996 or via e-mail kms@thggeophysics.com.

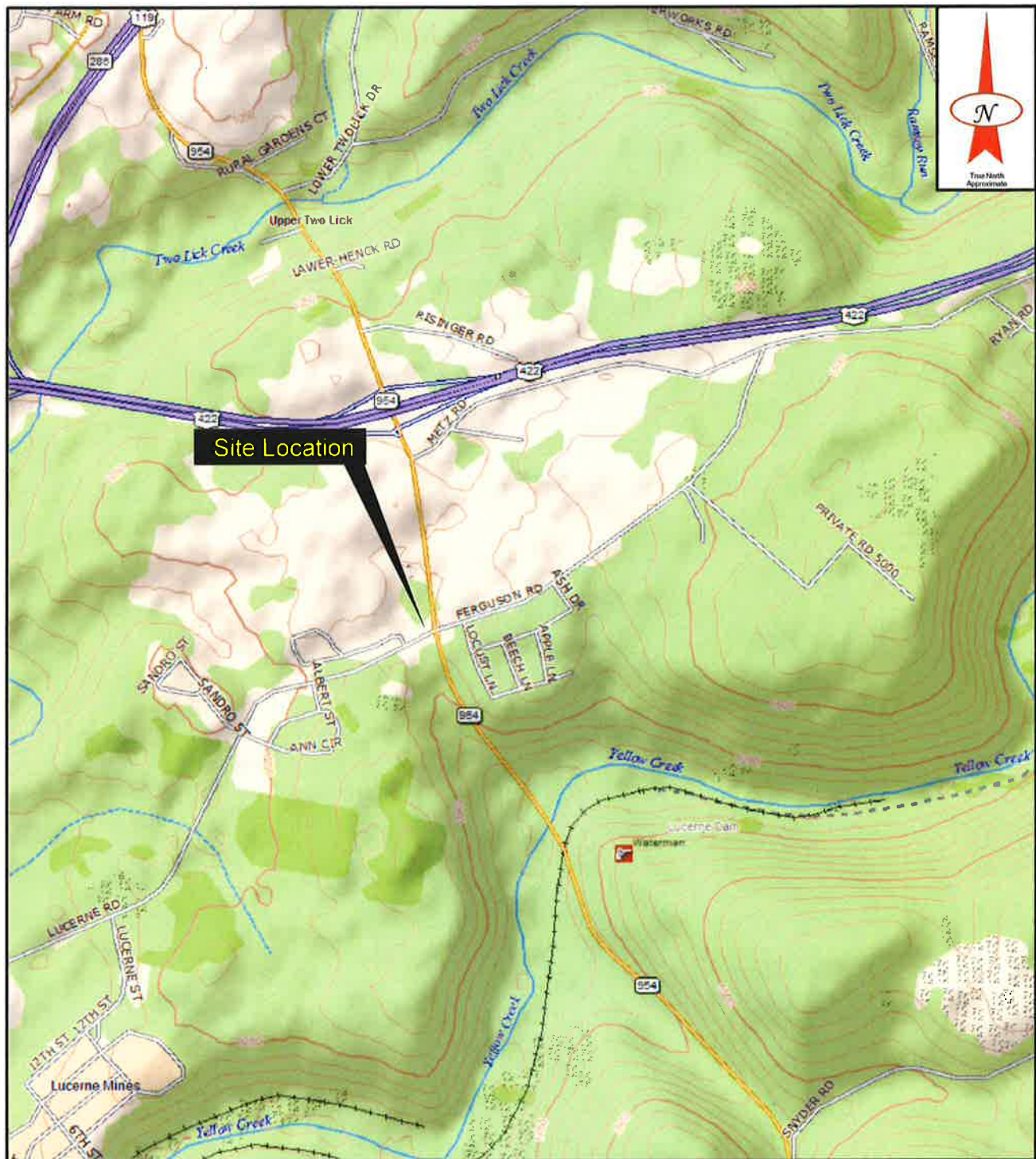
Respectfully,
THG Geophysics, Ltd.



Kate McKinley, PG
Project Manager

Enclosures

Geophysical investigations are a non-invasive method of interpreting physical properties of the shallow earth using electrical, electromagnetic, or mechanical energy. This document contains geophysical interpretations of responses to induced or real-world phenomena. As such, the measured phenomenon may be impacted by variables not readily identified in the field that can result in a false-positive and/or false-negative interpretation. THG makes no representations or warranties as to the accuracy of the interpretations.



4280 Old William Penn Hwy
Murrysville, Pennsylvania 15668
(724) 325-3996 Fax: (724) 733-7901
www.geo-image.com

0 ft 1000 ft 2000 ft 3000 ft 4000 ft 5000 ft

Figure 1
Site Location Map
Geophysical Investigation
4985 Lucerne Road
Indiana, Pennsylvania

SCALE: 1:24,000

DATE: 06/2/2016

DRAWN BY: MLT

CHECKED BY: KSM

PROJECT NO.:

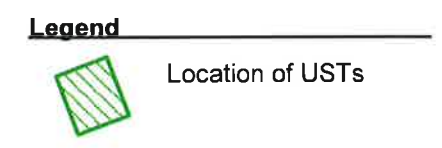
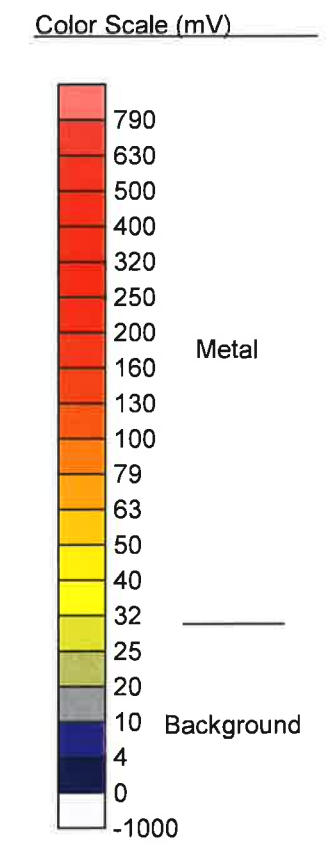
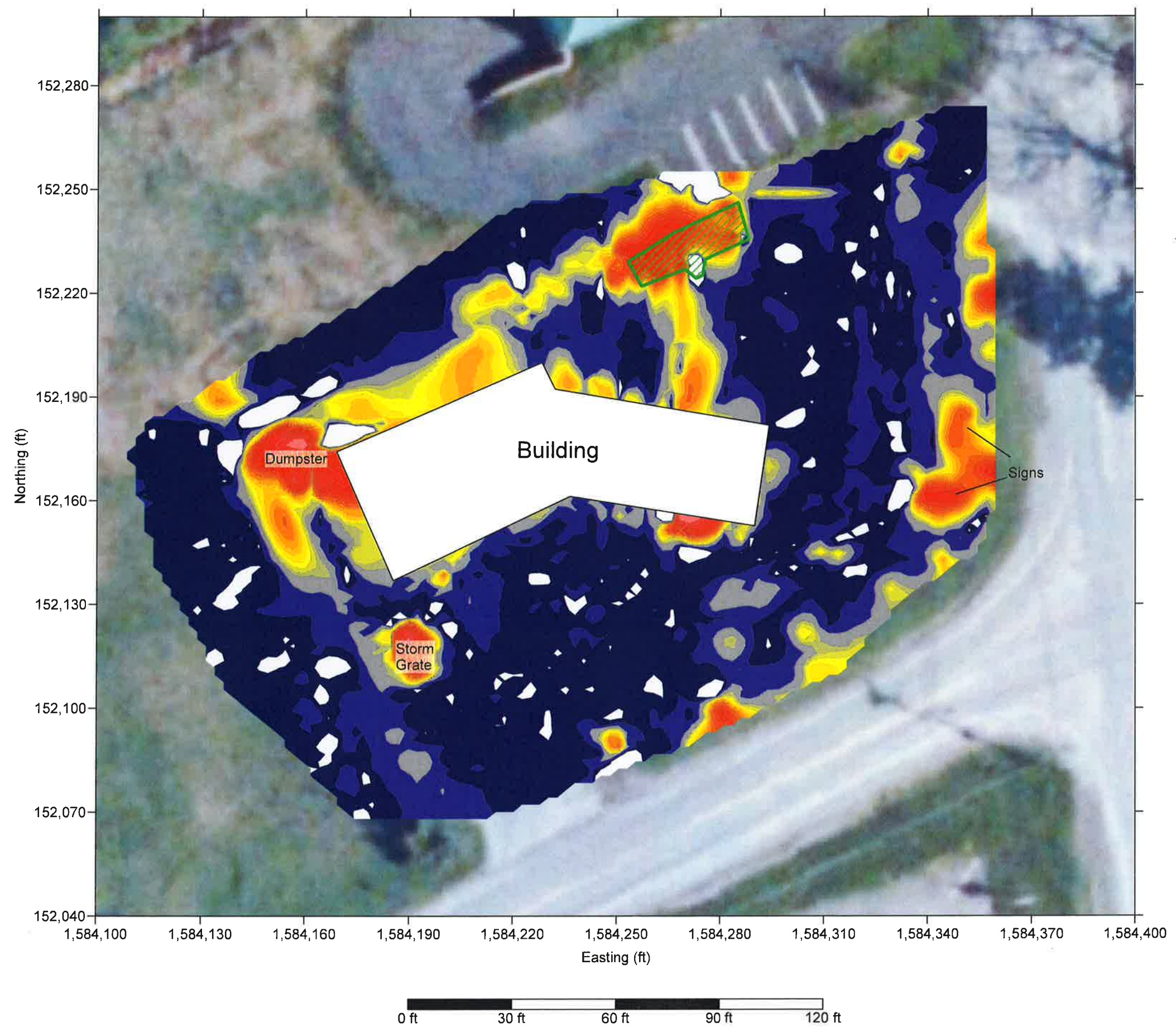
213-6182

DRAWING NO.:

DWG6182F1

SOURCE:

1981 Indiana (PA) USGS 7.5 Minute
Topographic Quadrangle





Notes

Geophysical survey conducted June 1, 2016 using a Geonics EM-61 time-domain electromagnetic conductivity meter, a Sensors and Software Noggin ground penetrating radar system equipped with a 250 MHz antenna, and radio-frequency utility detectors.

Real-time positioning of data using fully integrated Trimble GeoX7 global positioning system set to NAD 1983 US State Plane (West Virginia North) coordinate system in feet.

Locations are approximate.

			4280 Old William Penn Hwy Murrysville, Pennsylvania 15668 (724) 325-3956 Fax: (724) 733-7901 www.geo-image.com		
DRN	MLT	6/2/16	PROJECT: Geophysical Investigation UST/ Boring Clearance Indiana, PA		
DES	MLT	6/2/16			
CHK	KSM	6/2/16			
REV					
PROJ. MGR.	KSM	6/2/16	Figure 2 Peak Differential Response Map		
SCALE: 1" = 30'					
SOURCE: USGS, 2015			DRAWING NO.:		
PREPARED FOR:			PROJECT NO.:		
 MOUNTAIN RESEARCH, LLC			213-6182		
			SHEET TITLE: DWG6182F2		



Legend

- Water Utility
- Gas Utility
- Electric Utility
- Unknown Utility
- Storm/Sewer Utility
- Telecom Utility
- Unknown Utility Located in TDEM Dataset
- UST Location
- Proposed Boring

Notes

Geophysical survey conducted June 1, 2016 using a Geonics EM-61 time-domain electromagnetic conductivity meter, a Sensors and Software Noggin ground penetrating radar system equipped with a 250 MHz antenna, and radio-frequency utility detectors.

Real-time positioning of data using fully integrated Trimble GeoX7 global positioning system set to NAD 1983 US State Plane (Pennsylvania South) coordinate system in feet.

Locations are approximate.

4280 Old William Penn Hwy Murrysville, Pennsylvania 15668 (724) 325-3996 Fax: (724) 733-7901 www.geo-image.com			
DRN DES CHK REV PROJ. MGR	MLT MLT KSM KSM	6/4/16 6/4/16 6/13/16 6/13/16	PROJECT: Geophysical Investigation UST/ Boring Clearance Indiana, PA
SCALE: 1" = 30' SOURCE: USGS, 2015			DRAWING NO.: Figure 3 Utility Location Map
PREPARED FOR: MOUNTAIN RESEARCH, LLC			PROJECT NO.: 213-6182 SHEET TITLE: DWG6182F3

APPENDIX G

BORING LITHOLOGIC LOGS



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-1

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 11' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/90'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		95	0 - 0.5' - ASPHALT	
		2,000	0.5 - 1.5' - SANDY CLAY (CLS): FILL AND ROCKY, LARGE SOILS AT TOP OF INTERVAL; BROWN/GREY COLORATION; TRANSITIONS TO FINE SANDY CLAY, TO CLAYEY SAND AT END OF INTERVAL.	
		7.6	1.5 - 3' - SANDY CLAY (CLS): MORE CLAY - LESS ROCKS AND SAND; DARKER IN COLOR THAN PREVIOUS INTERVAL.	
		0.0	3 - 4' - SANDY CLAY (CLS): MORE SAND CONTENT; TAN COLORATION; DRIER.	
5		0.0	4 - 6' - SANDY CLAY (CLS): MORE CLAY CONTENT.	
		0.0	6 - 7' - SANDY CLAY (CLS): MORE SAND CONTENT; DRIER.	
		0.0	7 - 8' - SANDY CLAY (CLS): INCREASED SAND CONTENT; MOISTURE AT BOTTOM OF INTERVAL; HEAVY CLAY; VERY LOW PLASTICITY IN SANDY ZONE - SOME IN CLAY ZONE.	
		0.0	8 - 8.5' - GRAVEL: SMALL COBBLES/LARGE GRAVEL.	
10	SB-1 (11')	0.0	8.5 - 9' - SAND: COARSE	
		0.0	9 - 11' - NO RECOVERY.	
			11' - REFUSAL AT 11' BGS.	
15				
20				
25				
30				
35				

BA



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-2

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 12' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0.0	0 - 1' - ASPHALT.	
		17.7	1 - 2' - SANDY CLAY (CLS): YELLOWISH-BROWN; HIGHER CLAY CONTENT; NO ODOR; ANGULAR; MEDIUM PLASTICITY; QUITE DRY	
		0.0	2 - 3' - SILTY CLAY (CL-ML): HIGHER CLAY CONTENT THAN ABOVE INTERVAL; FINER MATERIAL; SMALLER SAND; MIXED WITH LARGE SILT; MEDIUM PLASTICITY	
5		2.5	3 - 6' - SANDY CLAY (CLS): YELLOWISH-ORANGE; COBBLE SIZED STONES; WHITE SAND; LARGE GRAIN SIZE; LOW PLASTICITY; NO RECOVERY FROM 4 TO 6' BGS - DRIER THAN REMAINING PORTION OF INTERVAL.	
		0.0	6 - 7' - SANDY CLAY (CLS): DARK GREY; LOW TO MEDIUM PLASTICITY; MOISTURE PRESENT.	
		0.0	7 - 8' - SANDY CLAY (CLS): VERY COARSE; MOISTURE PRESENT	
		0.0	8 - 10' - CLAY (CL): GREY TO YELLOWISH-ORANGE; MOTTLING; LOW PLASTICITY	
10	SB-2 (11')	0.0	10 - 12' - SAND (SW): COARSE SAND TO SANDSTONE BEDROCK; STARTS WHITE AND TRANSITIONS TO ORANGE.	
		0.0	12' - REFUSAL AT 12' BGS.	
15			BA	
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MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-3

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 12' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0.0	0 - 0.5' - ASPHALT	
		22.4	0.5 - 1' - FILL: ROCK. STRONG ODOR DURING AIR KNIFING	
		0.0	1 - 4' - SILTY CLAY (CL-ML): DARK ORGANIC SILTY CLAY, MIXED WITH	
		57.6		
5		0.0	4 - 5' - SANDY CLAY (CLS): MIXED WITH GRAVEL; MOISTER THAN PREVIOUS	
		119	INTERVAL.	
		183	5 - 6' - SILTY CLAY (CL-ML): GREY; FINE; LOW PLASTICITY; NO ODOR.	
		255	6 - 7' - SAND (SW): WHITE; COARSE; ANGULAR.	
	SB-3 (8')	197	7 - 9' - SILTY CLAY (CL-ML): RED COLORATION; FINE; VERY DRY; STRONG ODOR.	
10		168.2	9 - 10' - SANDY CLAY (CLS): COARSE; DIFFICULT MATERIAL - TIGHT CLAY; NO	
		12	DISCOLORATION.	
	SB-3 (12')	550	10 - 12' - SAND (SW): COARSE; MORE MOISTURE; MIXED WITH STAINED MEDIUM	
			PLASTICITY CLAY.	
			12' - REFUSAL AT 12' BGS.	
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MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-4/MW-1

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 11' BGS.
SATURATED ZONE: 8 - 10' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 0.5' - ASPHALT		
		0.0	0.5 - 1' - FILL: LARGE AMOUNTS OF ROCKS - FILL.		CONCRETE 0 - 0.5'
		0.0	1 - 2' - FILL: DARK ORGANIC FILL.		BENTONITE 0.5 - 4'
		0.0	2 - 5' - SILTY CLAY (CL-ML): YELLOWISH IN COLOR; HIGH PLASTICITY; LOW MOISTURE; LESS DARK.		PVC RISER DIA 2" 0 - 5'
5		0.0	5 - 8' - SILTY CLAY (CL-ML): YELLOW-ORANGE; LOW PLASTICITY; LOW MOISTURE.		
		3.6			
		0.3			
		0.0	8 - 9' - SANDY CLAY (CLS): ORANGE; POTENTIALLY WATER AROUND 8 - 9' BGS.		
		0.0	9 - 10' - SANDY CLAY (CLS): DARKER ORANGE; MIXED WITH HEAVY, COARSE RED SAND.		FILTER SAND 4 - 12'
10	SB-4/MW-1 (11')	0.0	10 - 11' - CLAYEY SAND (SW-SC): YELLOW-ORANGE; COARSE; SOME CLAYS - ORANGE; SATURATION PRESENT.		WELL SCREEN DIA 2" SLOT 0.020 5 - 12'
		0.0	11' - REFUSAL AT 11' BGS.		
15					
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MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-5

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 14' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0.0	0 - 0.5' - CONCRETE.	
		0.0	0.5 - 1' - FILL: ROCKS.	
		0.0	1 - 2' - FILL: DARK ORGANIC FILL.	
		0.6	2 - 3' - SILTY CLAY (CL-ML): SOME ORGANICS; MOTTLED.	
		0.0	3 - 4' - SILTY CLAY (CL-ML): ORGANIC INCLUSIONS; MOIST.	
5		0.0	4 - 5' - SANDY CLAY (CLS): LARGER PARTICLES; STILL MOIST; MEDIUM PLASTICITY; LITTLE ODOR.	
		0.7	5 - 7.5' - SILTY CLAY (CL-ML): YELLOW-ORANGE; LOW PLASTICITY; LOW MOISTURE.	
		0.0		
		0.0	7.5 - 8' - SANDSTONE: WHITE SANDSTONE INCLUSION.	
		0.0	8 - 9.5' - SILTY CLAY (CL-ML): YELLOW-ORANGE AND WHITE/GREY; VERY LOW MOISTURE; LOW PLASTICITY.	
10		0.0	9.5 - 10' - SAND (SW): WHITE; ANGULAR; SOME CLAY CONTENT NEAR 10' BGS.	
		1.0	10 - 11' - SILTY CLAY (CL-ML): VERY RED IN COLOR; DRY.	
		2.0	11 - 13' - SILTY CLAY (CL-ML): ORANGE/GREY; DRY; LOW PLASTICITY; ANGULAR GRAVEL AT 13' BGS.	
	SB-5 (13')	0.9		
		0.0	13 - 14' - CLAY (CL): GREY; EXTREMELY TIGHT; LOW PLASTICITY; EXTREMELY LOW MOISTURE; NOT ENTIRELY DRY.	
15			14' - REFUSAL AT 14' BGS	
			BA	
20				
25				
30				
35				



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-6

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 14' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0.0	0 - 0.5' - ASPHALT.	
		0.5	0.5 - 1' - FILL: ROCKY FILL.	
		6.3	1 - 2' - SANDY CLAY.	
		0.0	2 - 4' - CLAY (CL): MOTTLED; MOIST.	
		0.0		
		0.0	4 - 5' - NO RECOVERY.	
5	SB-6 (6')	1467	5 - 6.5' - SANDY CLAY (CLS): LOW PLASTICITY; STRONG ODOR; FINE SAND - SUB-ROUNDED AND LOW MOISTURE.	
		1455	6.5 - 8' - SANDY CLAY (CLS): LOW PLASTICITY; STRONG ODOR; FINE SAND - SUB-ROUNDED; COARSER GRAINS; LOW MOISTURE; SLIGHT STAINING.	
		613	8 - 9' - SANDY CLAY (CLS): LOW PLASTICITY; STRONG ODOR; FINE SAND - SUB-ROUNDED; COARSER GRAINS; LOW MOISTURE; SLIGHT STAINING; DRIER THAN PREVIOUS INTERVAL.	
10	SB-6 (11')	51.2	9 - 10' - SANDY CLAY (CLS): LOW PLASTICITY; STRONG ODOR; FINE SAND - SUB-ROUNDED; COARSER GRAINS; LOW MOISTURE; SLIGHT STAINING; DRIER THAN PREVIOUS INTERVAL; GRAVEL INCLUSIONS.	
		23.4	10 - 14' - SANDY CLAY (CLS): DARK; DRY; LOW PLASTICITY; STRONG ODOR; FINE SAND - SUB-ROUNDED; COARSER GRAINS; LOW MOISTURE; SLIGHT STAINING; TRANSITIONS INTO SANDSTONE BEDROCK AT BOTTOM OF INTERVAL.	
		54.0		
		35		
		16.7		
		0.0		
15			14' - REFUSAL AT 14' BGS	
20				
25				
30				
35				

BA



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-7

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 13' BGS.
SATURATED ZONE: 8' BGS.

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0.0	0 - 0.5' - ASPHALT	
		15	0.5 - 1' - FILL: ROCKS.	
		4.5	1 - 2' - FILL: DARK ORGANIC FILL; LIMITED ODOR.	
		0.0	2 - 3' - SILTY CLAY.	
		0.0	3 - 4' - SILTY CLAY (CL-ML): ORGANIC SILTY CLAY; DARKLY STREAKED.	
5		0.0	4 - 5' - NO RECVOERY; LARGE ROCK CLEARED FROM INTERVAL.	
		8.5	5 - 8' - SANDY CLAY (CLS): RED/ORANGE	
	SB-7 (8')	112		
		23	8 - 8.25' - SANDY CLAY (CLS): SMALL SAND LENS; DARK IN COLOR; STAINED; ROUNDED; SATURATION.	
10		18.4	8.25 - 9' - SANDY CLAY (CLS): WHITE, CLEAN SAND WITH ORANGE CLAY; ANGULAR MIXED.	
		2.5	9 - 10' - SILTY CLAY (CL-ML): DARK IN COLOR; DRY.	
		11.2	10 - 12.5' - SANDY CLAY (CLS): STAINED; ANGULAR TO SUBANGULAR.	
	SB-7 (13')	9.2	12.5 - 13' - SAND (SW): VERY COARSE; WEAK PETROLEUM ODOR; LOW MOISTURE	
		230	13' - REFUSAL AT 13' BGS.	

BA



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-8

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 18.5' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0			0 - 0.5' - ASPHALT.	
		2.7	0.5 - 1' - FILL: LARGE COBBLES.	
		0.0	1 - 2' - CLAYEY SAND (SC): DARK GREY; DRY.	
		0.0	2 - 3' - CLAYEY SAND (SC): DARK GREY; LESS SAND AND MORE CLAY THAN PREVIOUS INTERVAL.	
		0.0	3 - 4' - NO RECOVERY: ROCKIER - NO RECOVERABLE MATERIAL IN SIGNIFICANT QUANTITY.	
5		1.2	4 - 5' - SANDY CLAY (CLS): ORANGE-BROWN; ROUNDED - SOME SEMI-ANGULAR; LIMITED RECOVERY. STRONG ODOR DURING AIR KNIFING.	
		32	5 - 6' - SILTY CLAY (CL-ML): RED/ORANGE IN COLOR; LOW TO NO ODOR; LOW PLASTICITY.	
		165	6 - 9' - SANDY CLAY (CLS): STRONGER ODOR; 7 - 7.5' BGS - STRONG ODOR; STAINED. DRY SANDY TO GRAVELLY CLAY.	
		8.4	9 - 10' - GRAVELLY CLAY (CLG): LOW PLASTICITY; DRY.	
10	SB-8 (10')	9.2	10 - 18.5' - SILTY CLAY (CL-ML): TAN/ORANGE; FINE; DRY.	
		264		
		2.7		
		1.3		
		7.0		
		3.4		
15	SB-8 (15')	20.3		
		1.2		
		0.3		
		0.1		
20			18.5' - REFUSAL AT 18.5' BGS.	
			BA	
25				
30				
35				



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-9

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 11.5' BGS.
SATURATED ZONE: 3.5 - 4.5' BGS.

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0			0 - 0.5' - ASPHALT	
		1.2	0.5 - 1.5' - SILTY CLAY (CL-ML): YELLOWISH-ORANGE; MOTTLING; DARK ORGANIC SOIL; SOME FINE SANDS; DRY.	
		0.0	1.5 - 3.5' - SANDY CLAY (CLS): YELLOWISH-ORANGE; LESS ORGANICS; COARSER SANDS; 40% SUB-ROUNDED; DRY.	
		0.0	3.5 - 4.5' - CLAY (CH): YELLOWISH-ORANGE; VERY HIGH PLASTICITY; HIGH MOISTURE.	
5		0.0	4.5 - 6' - SANDY CLAY (CLS): RED IN COLOR; SUBANGULAR; LOW PLASTICITY.	
		0.0	6 - 9' - SILTY CLAY (CL-ML): RED.	
		9.7		
		1.1		
	SB-9 (9')	6.5	9 - 10.5' - SANDY GRAVEL (GWS): LIGHTER GREY; MIXED WITH CLAY - VERY LOW PLASTICITY; LOW MOISTURE; SLIGHT STAINING.	
10	SB-9 (10.5')	705	10.5 - 11.5 - SILTY SAND (SM): GREY; DARKER AND STAINED; MEDIUM PLASTICITY; PETROLEUM ODOR; SAND IS SUB-ROUNDED; MEDIUM TO LOW MOISTURE.	
			11.5 - REFUSAL AT 11.5' BGS.	
15				
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25				
30				
35				



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-10

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 21.5' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0.0	0 - 0.5' - ASPHALT	
		0.0	0.5 - 3' - FILL: DARK ORGANIC ROOTS.	
		24		
		0.0	3 - 4' - SILTY CLAY (CL-ML): MEDIUM PLASTICITY; ODOR	
		0.0	4 - 5' - NO RECOVERY: HEAVY ODOR; 1,000 HEADSPACE PID IN BORING	
5		0.0	5 - 10' - SANDY CLAY (CLS): DARK GREY; PID MATERIAL MOIST; ANGULAR; MEDIUM PLASTICITY; MOIST.	
		0.0		
		0.0		
		0.0		
		0.0		
10		0.0	10 - 11' - GRAVELLY CLAY (CLS): YELLOW-ORANGE AND GREY IN COLOR; SANDY	
		0.4	11 - 15' - SILTY CLAY (CL-ML): YELLOW-ORANGE; FINE; MEDIUM PLASTICITY; NO TO VERY LOW ODOR.	
		0.5		
		2.1		
		3.8		
15	SB-10 (15')	1.4	15 - 20' - SILTY CLAY (CL-ML): DISCOLORED; FINE; SAME CONSISTENCY AS ABOVE; TRANSITIONS TO NORMAL COLORATION; LOW PLASTICITY.	
		11		
		3.0		
		6.0		
		0.3		
20	SB-10 (19')	32.4	20 - 21' - SILTY CLAY (CL-ML): DISCOLORED; FINE; SAME CONSISTENCY AS ABOVE; TRANSITIONS TO NORMAL COLORATION; LOW PLASTICITY; SATURATED.	
	SB-10 (21.5')	181	21 - 21.5' - GRAVELLY CLAY (CLG): TIGHT.	
			21.5' - REFUSAL AT 21.5' BGS.	
25				
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BA



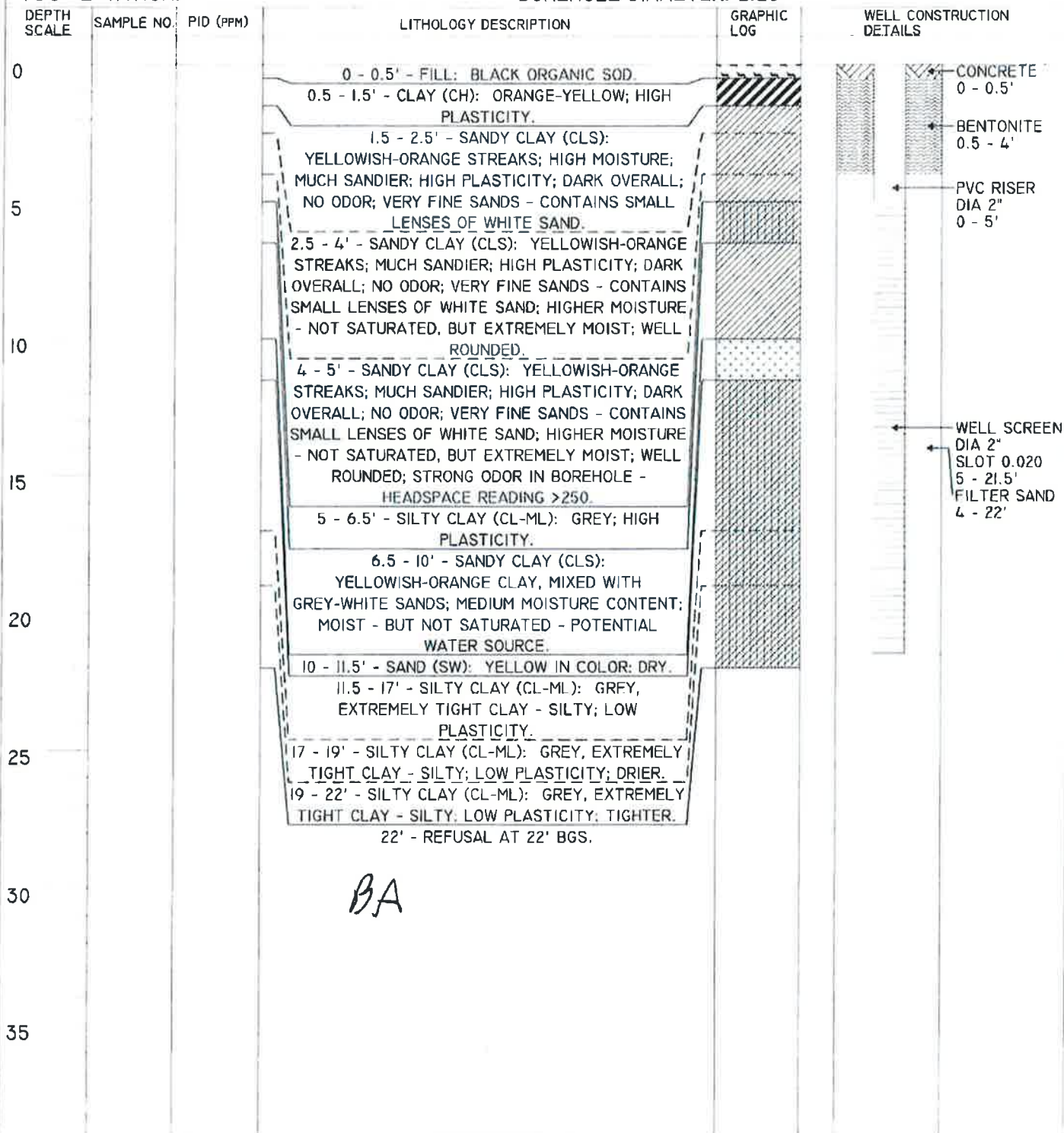
MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:

SB-II/MW-2

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 22' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"





MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-12/MW-5

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 13.5' BGS.
SATURATED ZONE: 9 - 13.5' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 9/7/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 0.5' - ASPHALT.		<p>CONCRETE 0 - 1'</p> <p>BENTONITE 1 - 4'</p> <p>PVC RISER DIA 2" 0 - 5'</p> <p>WELL SCREEN DIA 2" SLOT 0.010 5 - 12' FILTER SAND 4 - 12'</p>
		0	0.5 - 1.5' - FILL: ROCKY.		
		0	1.5 - 5' - SANDY CLAY (CLS): YELLOW-ORANGE; HIGH PLASTICITY.		
5		0	5 - 9' - SANDY CLAY (CLS): YELLOW-ORANGE; MEDIUM PLASTICITY; 70% RECOVERY.		
		0	9 - 10' - SANDY CLAY (CLS): YELLOW-ORANGE; LOWER SAND VOLUME; SATURATION AT 9' BGS.		
10	SB-12/MW-5 (9')	0	10 - 13.5' - SAND (SW): WHITE; SATURATED; 60% RECOVERY.		
		0	13.5' - REFUSAL AT 13.5' BGS.		
15					
20					
25					
30					
35					

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MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-13/MW-6

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 12.5' BGS.
SATURATED ZONE: 10.5 - 12.5' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 9/7/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 0.25' - FILL: GRASS/SOD.		
	0		0.25 - 1' - SANDY CLAY (CLS): DARK YELLOW-ORANGE; MIXED WITH ORGANIC MATERIAL.		CONCRETE 0 - 1'
	0		1 - 5' - SANDY CLAY (CLS): DARK YELLOW-ORANGE; SANDSTONE COBBLE INCLUSIONS.		BENTONITE 1 - 4'
5	0		5 - 10' - CLAY (CH): GREY/WHITE/YELLOW; 80% RECOVERY; HIGH PLASTICITY; MEDIUM MOISTURE.		PVC RISER 2" 0 - 5'
	0		10 - 12.5' - CLAY (CH): GREY/WHITE/YELLOW; 70% RECOVERY; HIGH PLASTICITY; SATURATION PRESENT.		WELL SCREEN DIA 2" SLOT 0.010 5 - 11.5'
10	0		12.5 - REFUSAL AT 12.5' BGS - SANDSTONE.		
15					
20					
25					
30					
35					

BA



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-14/MW-7

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 13.5' BGS.
SATURATED ZONE: 13' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 9/8/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 0.25' - FILL: GRASS/SOD.		CONCRETE 0 - 1'
		0	0.25 - 1' - FILL.		BENTONITE 1 - 4'
		0	1 - 2' - SANDY CLAY (CLS): YELLOW-ORANGE.		
		0	2 - 3' - SANDY CLAY (CLS): YELLOW-ORANGE; TIGHTER; MORE CLAYEY.		PVC RISER DIA 2" 0 - 5'
		0	3 - 5' - SANDY CLAY (CLS): YELLOW-ORANGE; LESS CLAYEY - MORE SANDY.		
5	SB-14/MW-7 (6')	4.1	5 - 10' - SANDY CLAY (CLS): YELLOW-ORANGE; 80% RECOVERY; MEDIUM PLASTICITY; LOW TO MEDIUM MOISTURE.		FILTER SAND 4 - 13.5' WELL SCREEN DIA 2" SLOT 0.010 5 - 13.5'
	SB-14/MW-7 (7')	12.2			
		6.3			
		2.2			
10	SB-14/MW-7 (11')	0	10 - 13.5' - SANDY CLAY (CLS): YELLOW-ORANGE; MEDIUM PLASTICITY; TRANSITIONS TO WHITE SAND AT 13' BGS; SATURATED.		
	SB-14/MW-7 (12')	0.3			
		2.1			
		0			
15			13.5' - REFUSAL AT 13.5' BGS - SAND.		
20					
25					
30					
35					



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-15

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 12.5' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING
DATE: 9/7/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0	0 - 0.25' - FILL: GRASS/SOD.	
		0	0.25 - 1' - FILL.	
		0	1 - 10' - SANDY CLAY (CLS): YELLOW-ORANGE; TRANSITIONS TO DARKER ORGANICS - THEN TO SANDSTONE COBBLES - THEN TO SANDY YELLOW-ORANGE CLAY, WITH ARCOSE SANDSTONE INCLUSIONS; 80% RECOVERY FROM 5 - 10' BGS.	
5		0		
		0		
		0		
		0		
		0		
		0		
10		0	10 - 12.5' - SANDY CLAY (CLS): YELLOW-ORANGE (HIGHER YELLOW CONTENT); TRANSITIONS TO DARKER ORGANICS - THEN TO SANDSTONE COBBLES - THEN TO SANDY YELLOW-ORANGE CLAY, WITH ARCOSE SANDSTONE INCLUSIONS - RED/PINK IN COLOR; 50% RECOVERY;	
	SB-15 (12')	0	12.5' - REFUSAL AT 12.5' BGS. - SANDY CLAY.	
15				
20				
25				
30				
35				



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-16

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 14' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING
DATE: 9/7/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0	0 - 0.5' - ASPHALT.	
		0	0.5 - 1.5' - FILL.	
		0	1.5 - 5' - SANDY CLAY (CLS): YELLOW-ORANGE; TRANSITIONS TO SANDSTONE COBBLES - THEN BACK TO YELLOW-ORANGE SANDY CLAY.	
		0		
		0		
5		0	5 - 6' - SAND (SW): DRY; NO PLASTICITY.	
		0	6 - 14' - SANDY CLAY (CLS): MIXED WITH SANDSTONE COBBLES; MEDIUM PLASTICITY; 80% RECOVERY.	
		0		
		0		
		0		
10		0		
		0		
		0		
		0		
		0		
	SB-16 (13.5')	0		
15		0	14' - REFUSAL AT 14' BGS - SANDTONE.	
20			BA	
25				
30				
35				



MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-17

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 13' BGS.
SATURATED ZONE: N/A

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING
DATE: 9/7/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0	0 - 0.5' - ASPHALT.	
		0	0.5 - 1.5' - FILL.	
		0	1.5 - 5' - SANDY CLAY (CLS): YELLOW-ORANGE; SOFT DIG REFUSAL AT 5' BGS.	
5		0	5 - 10' - CLAY (CL): YELLOW/TAN IN COLOR; EXTREMELY DRY; LOW PLASTICITY; 80% RECOVERY.	
		0		
		0		
		0		
10		0	10 - 13' - CLAY (CL): YELLOW/ORANGE IN COLOR; SLIGHTLY MORE MOISTURE; 80% RECOVERY.	
	SB-17 (12.5')	0		
		0	13' - REFUSAL AT 13' BGS - SANDSTONE.	
15				
20				
25				
30				
35				



MOUNTAIN
RESEARCH, LLC

MOUNTAIN RESEARCH, LLC SOIL BORING LOG

BORING NO.:

SB-18

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 12' BGS.
SATURATED ZONE: N/A

WEATHER: 50'S/RAINY
LOGGED BY: JACOB CLARA
DRILLING METHOD: DIRECT PUSH
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: SOIL BORING
DATE: 4/24/2018
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG
0		0.0	0 - 5" - CONCRETE.	
		0.0	5" - 2.5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH FILL.	
		0.0	2.5 - 5' - SILTY CLAY (CL-ML): BROWN; MIXED WITH TRACE SAND; MEDIUM PLASTICITY AND MOISTURE CONTENT; ODOR FROM 4 TO 12' BS.	
	SB-18	6.2	5 - 6.5' - SANDY CLAY (CLS): BROWN - YELLOW; MIXED WITH TRACE SILT; LOW PLASTICITY; HIGH MOISTURE CONTENT.	
5	SB-18	93.8	6.5 - 8' - SANDY CLAY (CLS): LIGHT BROWN; MEDIUM PLASTICITY; HIGH MOISTURE CONTENT.	
		486.5	8 - 10' - SANDY CLAY (CLS): BROWN-ORANGE; LOW PLASTICITY; HIGH MOISTURE CONTENT.	
		64.2	10 - 11.5' - SANDY CLAY (CLS): ORANGE; LOW PLASTICITY; MEDIUM MOISTURE.	
		16.6	11.5 - 12' - SANDSTONE: BROWN-ORANGE SANDSTONE FRAGMENTS.	
		5.5	12' - SOIL BORING REFUSAL AT 12' BGS.	
10		301.5		
		64.5		
		15.2		
15				
20				
25				
30				
35				

David W. H. 6-14-18



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-4/MW-1

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 11' BGS.
SATURATED ZONE: 8 - 10' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0.0	0 - 0.5' - ASPHALT.		CONCRETE 0 - 0.5'
		0.0	0.5 - 1' - FILL: LARGE AMOUNTS OF ROCKS - FILL.		BENTONITE 0.5 - 4'
		0.0	1 - 2' - FILL: DARK ORGANIC FILL.		
		0.0	2 - 5' - SILTY CLAY (CL-ML): YELLOWISH IN COLOR; HIGH PLASTICITY; LOW MOISTURE; LESS DARK.		PVC RISER DIA 2" 0 - 5'
5		0.0	5 - 8' - SILTY CLAY (CL-ML): YELLOW-ORANGE; LOW PLASTICITY; LOW MOISTURE.		
		3.6			
		0.3			
		0.0	8 - 9' - SANDY CLAY (CLS): ORANGE; POTENTIALLY WATER AROUND 8 - 9' BGS.		FILTER SAND 4 - 12'
		0.0	9 - 10' - SANDY CLAY (CLS): DARKER ORANGE; MIXED WITH HEAVY, COARSE RED SAND.		WELL SCREEN DIA 2" SLOT 0.020 5 - 12'
10	SB-4/MW-1 (11')	0.0	10 - 11' - CLAYEY SAND (SW-SC): YELLOW-ORANGE; COARSE; SOME CLAYS - ORANGE; SATURATION PRESENT.		
			11' - REFUSAL AT 11' BGS.		
15					
20					
25					
30					
35					

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DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0.7	0 - 0.5' - FILL: BLACK ORGANIC SOD.		CONCRETE 0 - 0.5'
		27.2	0.5 - 1.5' - CLAY (CH): ORANGE-YELLOW; HIGH PLASTICITY.		BENTONITE 0.5 - 4'
		0	1.5 - 2.5' - SANDY CLAY (CLS): YELLOWISH-ORANGE STREAKS; HIGH MOISTURE;		
		0	MUCH SANDIER; HIGH PLASTICITY; DARK OVERALL;		
5		2.4	NO ODOR; VERY FINE SANDS - CONTAINS SMALL LENSES OF WHITE SAND.		PVC RISER DIA 2" 0 - 5'
		1.8	2.5 - 4' - SANDY CLAY (CLS):		
		8.3	YELLOWISH-ORANGE STREAKS; MUCH SANDIER;		
		3.4	HIGH PLASTICITY; DARK OVERALL; NO ODOR; VERY FINE SANDS - CONTAINS SMALL LENSES OF		
		0.6	WHITE SAND; HIGHER MOISTURE - NOT SATURATED, BUT EXTREMELY MOIST; WELL		
10		0.3	ROUNDED.		
		6.2	4 - 5' - SANDY CLAY (CLS): YELLOWISH-ORANGE STREAKS; MUCH SANDIER; HIGH PLASTICITY; DARK		
		8.4	OVERALL; NO ODOR; VERY FINE SANDS - CONTAINS SMALL LENSES OF WHITE SAND;		
		0.6	HIGHER MOISTURE - NOT SATURATED, BUT EXTREMELY MOIST; WELL ROUNDED; STRONG		
15		0.1	ODOR IN BOREHOLE - HEADSPACE READING - >250.		WELL SCREEN DIA 2" SLOT 0.020 5 - 21.5' FILTER SAND 4 - 22'
		0.1	5 - 6.5' - SILTY CLAY (CL-ML): GREY; HIGH PLASTICITY.		
		0.4	6.5 - 10' - SANDY CLAY (CLS): YELLOWISH-ORANGE CLAY, MIXED WITH GREY-WHITE SANDS; MEDIUM MOISTURE CONTENT;		
		0	MOIST - BUT NOT SATURATED - POTENTIAL WATER SOURCE.		
		8.7	10 - 11.5' - SAND (SW): YELLOW IN COLOR; DRY.		
		97.5	11.5 - 17' - SILTY CLAY (CL-ML): GREY, EXTREMELY TIGHT CLAY - SILTY; LOW PLASTICITY.		
20		0.5	17 - 19' - SILTY CLAY (CL-ML): GREY, EXTREMELY TIGHT CLAY - SILTY; LOW PLASTICITY; DRIER.		
		0.6	19 - 22' - SILTY CLAY (CL-ML): GREY, EXTREMELY TIGHT CLAY - SILTY; LOW PLASTICITY; TIGHTER.		
		2.4	22' - REFUSAL AT 22' BGS.		
	SB-11/MW-2 (19')				

BA



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:

SB-1/MW-3

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 11' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: SUN/90'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		95	0 - 0.5' - ASPHALT.		
		2,000	0.5 - 1.5' - SANDY CLAY (CLS): FILL AND ROCKY, LARGE SOILS AT TOP OF INTERVAL; BROWN/GREY COLORATION; TRANSITIONS TO FINE SANDY CLAY, TO CLAYEY SAND AT END OF INTERVAL.		0 - 1' CONCRETE.
		7.6	1.5 - 3' - SANDY CLAY (CLS): MORE CLAY - LESS ROCKS AND SAND; DARKER IN COLOR THAN PREVIOUS INTERVAL.		BENTONITE 1 - 4'
5		0.0	3 - 4' - SANDY CLAY (CLS): MORE SAND CONTENT; TAN COLORATION; DRIER.		PVC RISER DIA 2" 0 - 5'
		0.0	4 - 6' - SANDY CLAY (CLS): MORE CLAY CONTENT.		WELL SCREEN DIA 2" SLOT 0.020 FILTER SAND 4 - 11'
		0.0	6 - 7' - SANDY CLAY (CLS): MORE SAND CONTENT; DRIER.		
10	SB-1/MW-3 (11')	0.0	7 - 8' - SANDY CLAY (CLS): INCREASED SAND CONTENT; MOISTURE AT BOTTOM OF INTERVAL; HEAVY CLAY; VERY LOW PLASTICITY IN SANDY ZONE - SOME IN CLAY ZONE.		
		0.0	8 - 8.5' - GRAVEL: SMALL COBBLES/LARGE GRAVEL.		
15			8.5 - 9' - SAND: COARSE.		
			9 - 11' - NO RECOVERY.		
			11' - REFUSAL AT 11' BGS.		
20					
25					
30					
35					

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MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-8/MW-4

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 21' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		2.7	0 - 0.5' - ASPHALT.		CONCRETE 0 - 1'
		0.0	0.5 - 1' - FILL: LARGE COBBLES.		
		0.0	1 - 2' - CLAYEY SAND (SC): DARK GREY; DRY.		BENTONITE 1 - 5'
		0.0	2 - 3' - CLAYEY SAND (SC): DARK GREY; LESS SAND AND MORE CLAY THAN PREVIOUS INTERVAL.		
		0.0	3 - 4' - NO RECOVERY: ROCKIER - NO RECOVERABLE MATERIAL IN SIGNIFICANT QUANTITY.		PVC RISER DIA 2" 0 - 6'
5		1.2	4 - 5' - SANDY CLAY (CLS): ORANGE-BROWN; ROUNDED - SOME SEMI-ANGULAR; LIMITED RECOVERY; STRONG ODOR DURING AIR KNIFING.		
		32	5 - 6' - SILTY CLAY (CL-ML): RED/ORANGE IN COLOR; LOW TO NO ODOR; LOW PLASTICITY.		FILTER SAND 6 - 21'
	SB-8/MW-4 (10')	165	6 - 9' - SANDY CLAY (CLS): STRONGER ODOR; 7 - 7.5' BGS - STRONG ODOR; STAINED, DRY SANDY TO GRAVELLY CLAY.		
		8.4	9 - 10' - GRAVELLY CLAY (CLG): LOW PLASTICITY; DRY.		WELL SCREEN DIA 2" SLOT 0.020 6 - 21'
		9.2	10 - 21' - SILTY CLAY (CL-ML): TAN/ORANGE; FINE; DRY.		
10		264			
	SB-8/MW-4 (15')	2.7			
		1.3			
		7.0			
		3.4			
15		20.3			
		1.2			
		0.3			
		0.1			
20					
			21' - REFUSAL AT 21' BGS - SILTY CLAY.		
25					
30					
35					









MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-12/MW-5

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 13.5' BGS.
SATURATED ZONE: 9 - 13.5' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 9/7/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 0.5' - ASPHALT.		CONCRETE 0 - 1'
		0	0.5 - 1.5' - FILL: ROCKY.		BENTONITE 1 - 4'
		0	1.5 - 5' - SANDY CLAY (CLS): YELLOW-ORANGE; HIGH PLASTICITY.		PVC RISER DIA 2" 0 - 5'
5		0	5 - 9' - SANDY CLAY (CLS): YELLOW-ORANGE; MEDIUM PLASTICITY; 70% RECOVERY.		
		0	9 - 10' - SANDY CLAY (CLS): YELLOW-ORANGE; LOWER SAND VOLUME; SATURATION AT 9' BGS.		WELL SCREEN DIA 2" SLOT 0.010 5 - 12'
10	SB-12/MW-5 (9')	0	10 - 13.5' - SAND (SW): WHITE; SATURATED; 60% RECOVERY.		FILTER SAND 4 - 12'
		0	13.5' - REFUSAL AT 13.5' BGS.		
15					
20					
25					
30					
35					



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-13/MW-6

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 12.5' BGS.
SATURATED ZONE: 10.5 - 12.5' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 9/7/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 0.25' - FILL: GRASS/SOD.		
		0	0.25 - 1' - SANDY CLAY (CLS): DARK YELLOW-ORANGE; MIXED WITH ORGANIC MATERIAL.		CONCRETE 0 - 1'
		0	1 - 5' - SANDY CLAY (CLS): DARK YELLOW-ORANGE; SANDSTONE COBBLE INCLUSIONS.		BENTONITE 1 - 4'
5		0	5 - 10' - CLAY (CH): GREY/WHITE/YELLOW; 80% RECOVERY; HIGH PLASTICITY; MEDIUM MOISTURE.		PVC RISER 2" 0 - 5'
		0			
		0			
		0			
10		0	10 - 12.5' - CLAY (CH): GREY/WHITE/YELLOW; 70% RECOVERY; HIGH PLASTICITY; SATURATION PRESENT.		WELL SCREEN DIA 2" SLOT 0.010 5 - 11.5'
		0	12.5 - REFUSAL AT 12.5' BGS - SANDSTONE.		
15					
20					
25					
30					
35					

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MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:

SB-14/MW-7

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 13.5' BGS.
SATURATED ZONE: 13' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 9/8/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 0.25' - FILL: GRASS/SOD.		CONCRETE 0 - 1'
		0	0.25 - 1' - FILL.		BENTONITE 1 - 4'
		0	1 - 2' - SANDY CLAY (CLS): YELLOW-ORANGE.		PVC RISER DIA 2" 0 - 5'
		0	2 - 3' - SANDY CLAY (CLS): YELLOW-ORANGE; TIGHTER; MORE CLAYEY.		
		0	3 - 5' - SANDY CLAY (CLS): YELLOW-ORANGE; LESS CLAYEY - MORE SANDY.		
5	SB-14/MW-7 (6')	4.1	5 - 10' - SANDY CLAY (CLS): YELLOW-ORANGE; 80% RECOVERY; MEDIUM PLASTICITY; LOW TO MEDIUM MOISTURE.		FILTER SAND 4 - 13.5'
	SB-14/MW-7 (7')	12.2			WELL SCREEN DIA 2" SLOT 0.010 5 - 13.5'
		6.3			
		2.2			
10	SB-14/MW-7 (11')	0	10 - 13.5' - SANDY CLAY (CLS): YELLOW-ORANGE; MEDIUM PLASTICITY; TRANSITIONS TO WHITE SAND AT 13' BGS; SATURATED.		
	SB-14/MW-7 (12')	0.3			
		2.1			
		0			
			13.5' - REFUSAL AT 13.5' BGS - SAND.		
15					
20					
25					
30					
35					



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
SB-9/MW-8

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 11.5' BGS.
SATURATED ZONE: 3.5 - 4.5' BGS.
TOC ELEVATION:

WEATHER: SUN/80'S
LOGGED BY: BEN AZAR
DRILLING METHOD: DIRECT PUSH
OPERATOR: MATT SNYDER
BOREHOLE COMPLETION: SOIL BORING/MONITORING WELL
DATE: 6/22/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		1.2	0 - 0.5' - ASPHALT.		
		0.0	0.5 - 1.5' - SILTY CLAY (CL-ML): YELLOWISH-ORANGE; MOTTLING; DARK ORGANIC SOIL; SOME FINE SANDS; DRY.		CONCRETE 0 - 1'
		0.0	1.5 - 3.5' - SANDY CLAY (CLS): YELLOWISH-ORANGE; LESS ORGANICS; COARSER SANDS; 40% SUB-ROUNDED; DRY.		BENTONITE 1 - 4'
5		0.0	3.5 - 4.5' - CLAY (CH): YELLOWISH-ORANGE; VERY HIGH PLASTICITY; HIGH MOISTURE.		PVC RISER DIA 2" 0 - 5'
		9.7	4.5 - 6' - SANDY CLAY (CLS): RED IN COLOR; SUBANGULAR; LOW PLASTICITY.		FILTER SAND 4 - 11.5'
	SB-9/MW-8 (9')	6.5	6 - 9' - SILTY CLAY (CL-ML): RED.		WELL SCREEN DIA 2" SLOT 0.020 5 - 11.5'
10	SB-9/MW-8 (10.5')	705	9 - 10.5' - SANDY GRAVEL (GWS): LIGHTER GREY; MIXED WITH CLAY - VERY LOW PLASTICITY; LOW MOISTURE; SLIGHT STAINING.		
			10.5 - 11.5 - SILTY SAND (SM): GREY; DARKER AND STAINED; MEDIUM PLASTICITY; PETROLEUM ODOR; SAND IS SUB-ROUNDED; MEDIUM TO LOW MOISTURE.		
15			11.5 - REFUSAL AT 11.5' BGS.		
20		17.1			
25					
30					
35					

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MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:

MW-9

PROJECT NO.: 4644.15.01

PROJECT NAME: SOIL BORING/MW INSTALL

CLIENT: VENNARD'S

LOCATION: INDIANA, PA

DEPTH: REFUSAL - 11.5'/TERMINATED - 13.5' BGS.

SATURATED ZONE: N/A

TOC ELEVATION:

WEATHER: CLOUDY/50'S

LOGGED BY: BEN AZAR

DRILLING METHOD: HOLLOW STEM AUGER

OPERATOR: DAVE BENNETT

BOREHOLE COMPLETION: MONITORING WELL

DATE: 3-29-2017

BOREHOLE DIAMETER: 4.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 5' - FILL: SAND CLAY LOGGED POST SOFT DIG.		
5	0	0	5 - 7' - SANDY CLAY (CLS): YELLOW - ORANGE; MEDIUM MOISTURE; MEDIUM PLASTICITY.		
	0	0	7 - 7.5' - LIMESTONE: LIMESTONE BOULDER.		
	0	0	7.5 - 10' - SANDY CLAY (CLS): YELLOW - ORANGE; MEDIUM MOISTURE; MEDIUM PLASTICITY.		
10	0	0	10 - 11' - SANDSTONE: REDDISH-COLORED SANDSTONE COBBLES.		
	0	0	11 - 12' - SANDSTONE: DARKER IN COLOR; VERY SLOW AUGER ADVANCEMENT; 11.5' BGS - USED AIR ROTARY - QUITE SOFT.		
15			12 - 13.5' - SANDY CLAY (CLS): SOFT SANDY CLAY RETURNS; SLOWER DRILLING FROM 12.75 TO 13' BGS.		
			13.5' - TERMINATED AT 13.5' BGS.		
20					
25					
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MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-10

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: TERMINATED/REFUSAL AT 5' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: SUNNY/80'S
LOGGED BY: LEAH MARKO
DRILLING METHOD: SOFT DIG
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: MONITORING WELL
DATE: 8/22/2017
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 8" - ASPHALT.		
		0	8" - 2' - SILT (ML): DARK BROWN; MIXED WITH FILL MATERIAL (GRAVEL).		
		0	2 - 5- SANDY SILT (MLS): DARK BROWN SOIL, MIXED WITH 20% ORANGE CLAY AND FILL MATERIAL; PIECES OF GRAVEL AND BRICK.		
5		0	5' - REFUSAL/TERMINATED AT 5' BGS.		
10					
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Leah Marko

28 Aug 2017



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-II

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: TERMINAL/REFUSAL AT 14.5' BGS.
SATURATED ZONE: 6.37 - 14.5' BGS.
TOC ELEVATION:

WEATHER: SUNNY/80'S
LOGGED BY: LEAH MARKO
DRILLING METHOD: HOLLOW STEM AUGER
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: MONITORING WELL
DATE: 8/24/2017
BOREHOLE DIAMETER: 4.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 1.5' SILTY SOIL (ML): DARL BROWN; ORGANIC.		
		0	1.5 - 5' - CLAY (CL): DARK BROWN; MIXED WITH SOME SANDSTONE COBBLES.		CONCRETE 0 - 1' BENTONITE 1 - 2' PVC RISER DIA 2" 0 - 3'
5		0	5 - 7' - SILTY CLAY (CL-ML): DARK BROWN.		
		0	7 - 8' - SILTY CLAY (CL-ML): LIGHT BROWN TO GREY.		
		0	8 - 9' - SANDY CLAY (CLS): TAN TO MEDIUM BROWN; SOFT.		
10		0	9 - 11' - SANDY CLAY (CLS): MEDIUM BROWN; 60% ORANGE SANDY MOTTLES MIXED IN; SOME SMALL SANDSTONE GRAVEL PIECES.		WELL SCREEN DIA 2" 3 - 14.5'
		0	11 - 13' - SILTY CLAY (CL-ML): MEDIUM BROWN; HIGHER MOISTURE CONTENT.		
15		0	13 - 14.5' - CLAY (CL): DARK REDDISH-BROWN; MORE MOISTURE; NOT SATURATED.		
			14.5' - REFUSAL/TERMINATED AT 14.5' BGS.		
20					
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Leah Marko 28 Aug 2017



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-12

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: TERMINATED/REFUSAL AT 11' BGS.
SATURATED ZONE: 6.57 - 11'
TOC ELEVATION:

WEATHER: SUNNY/70'S
LOGGED BY: LEAH MARKO
DRILLING METHOD: HOLLOW STEM AUGER
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: MONITORING WELL
DATE: 8/24/2017
BOREHOLE DIAMETER: 4.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 15" - SILT (ML): DARK BROWN SILTY ORGANIC SOIL.		CONCRETE 0 - 1'
	0		15" - 5' - SILTY CLAY (CL-ML): DARK BROWN; MIXED WITH SANDSTONE COBBLES AND SOME CONCRETE - POSSIBLY DUE TO FILL MATERIAL.		BENTONITE 1 - 2'
	0				PVC RISER DIA 2" 0 - 3'
5	0		5 - 8' - SILTY CLAY (CL-ML): DARK BROWN; MINIMAL SANDSTONE GRAVEL MIXED THROUGHOUT.		FILTER SAND 2 - 11'
	0		8 - 9' - SILTY CLAY (CL-ML): LIGHT BROWN TO GREY; MORE MOISTURE - NOT SATURATED.		WELL SCREEN DIA 2" SLOT 0.010 3 - 11'
10	0		9 - 11' - CLAY (CL): LIGHT GREY; HIGHER MOISTURE CONTENT; NO SANDSTONE PRESENT.		
	0		11 - REFUSAL/TERMINATED AT 11' BGS.		
15					
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Leah Marko

28 Aug 2017



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-13

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: AUGER REFUSAL AT 14.5' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: 30'S/SUNNY
LOGGED BY: JACOB CLARA
DRILLING METHOD: HOLLOW STEM AUGER
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: MONITORING WELL
DATE: 3/2/2018
BOREHOLE DIAMETER: 6.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 0.5' - ASPHALT.		CONCRETE 0 - 1'
			0.5 - 2.5' - CLAY (CL): BROWN; MIXED WITH FILL.		BENTONITE 1 - 3'
			2.5 - 5' - CLAY (CL): BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE.		PVC RISER DIA 2" 0 - 5'
5			5 - 8' - CLAY (CL): BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE.		FILTER SAND 3 - 14'
			8 - 9' - CLAY (CL): BROWN/ORANGE; HARDER; MEDIUM PLASTICITY; MEDIUM MOISTURE.		WELL SCREEN DIA 2" SLOT 0.020 5 - 14'
10			9 - 10' - CLAY (CL): BROWN; MIXED WITH SANDSTONE FRAGMENTS; HARDER.		
			10 - 13' - CLAY (CL): BROWN; MIXED WITH SANDSTONE FRAGMENTS; SCREECHING RIG.		
			13 - 14' - CLAY (CL): BROWN MEDIUM PLASTICITY; MEDIUM MOISTURE.		
15			14 - 14.5' - BEDROCK SANDSTONE.		
			14.5 - AUGER REFUSAL AT 14.5' BGS.		
20					
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Jacob Clara 3-12-18



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-14

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 20.5' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: 40'S/RAINY
LOGGED BY: JACOB CLARA
DRILLING METHOD: AUGER
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: 4" MONITORING/FEASIBILITY TEST WELL
DATE: 3/1/2018
BOREHOLE DIAMETER: 8.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 0.5' - CONCRETE.		CONCRETE 0 - 1'
			0.5 - 2' - CLAY (CL): BROWN; FILL STAINING.		BENTONITE 1 - 3'
			2 - 5' - CLAY (CL): BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE.		PVC RISER DIA 4" 0 - 5'
5			5 - 10' - SILTY CLAY (CL-ML): BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE.		FILTER SAND 3 - 19'
10			10 - 12' - CLAY (CL): BROWN; MEDIUM PLASTICITY; MEDIUM MOISTURE.		WELL SCREEN DIA 4" SLOT 0.020 5 - 19'
			12 - 13' - SANDSTONE LAYER: LIGHTER BROWN AND YELLOW CUTTINGS; HARDER AREA.		
			13 - 15' - SANDSTONE: LIGHTER BROWN AND YELLOW CUTTINGS; MEDIUM PLASTICITY; MEDIUM MOISTURE.		
15			15 - 18.5' - CLAY (CL): BROWN CLAY BALLS; MEDIUM PLASTICITY; MEDIUM MOISTURE.		
			18.5 - 19' - HARDER; GRINDING ON ROCK.		
20			19 - 20' - CLAY (CL): BROWN; SOFTER.		
			20 - 20.5' - BEDROCK.		
			20.5' - AUGER REFUSAL AT 20.5' BGS.		
25					
30					
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Paul H. Jr 3-12-18



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-15

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 17' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: 50'S/RAINY
LOGGED BY: JACOB CLARA
DRILLING METHOD: HOLLOW STEM AUGER
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: MONITORING WELL
DATE: 4-24-2018
BOREHOLE DIAMETER: 6.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 5" - FILL: GRASS/SOD.		
	0.0		5" - 2' - SANDY CLAY (CLS): BROWN; MIXED WITH FILL; NO ODOR.		CONCRETE 0 - 1'
	0.0		2 - 3' - SANDY CLAY (CLS): BROWN; MIXED WITH GRAVEL FRAGMENTS.		BENTONITE 1 - 4'
	0.0		3 - 5' - SANDY CLAY (CLS): BROWNISH IN COLOR.		PVC RISER DIA 2" 0 - 5'
5			5 - 10' - SANDY CLAY (CLS): BROWNISH IN COLOR; MEDIUM PLASTICITY AND MOISTURE.		FILTER SAND 4 - 17'
10			10 - 15' - SANDY CLAY (CLS): BROWNISH-ORANGE; MIXED WITH GRAVEL FRAGMENTS; MEDIUM PLASTICITY AND MOISTURE.		WELL SCREEN DIA 2" SLOT 0.010 5 - 17'
15			15 - 17' - SANDSTONE: WEATHERED ORANGE/BROWN SANDSTONE FRAGMENTS.		
20			17' - AUGER REFUSAL AT 17' BGS.		
25					
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Jacob Clara 6-8-18



MOUNTAIN
RESEARCH, LLC

MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:

MW-16

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL AT 7' BGS.
SATURATED ZONE: 2.5 - 7' BGS.
TOC ELEVATION:

WEATHER: 50'S/SUNNY
LOGGED BY: JACON CLARA
DRILLING METHOD: HOLLOW STEM AUGER
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: MONITORING WELL
DATE: 4-23-2018
BOREHOLE DIAMETER: 6.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 5' - FILL: GRASS/SOD.		
		0.0	5" - 2.5' - SANDY CLAY (CLS): BROWN; MIXED		CONCRETE 0 - 1'
		0.0	WITH FILL; MEDIUM PLASTICITY AND MOISTURE; NO		BENTONITE 1 - 3.5'
		0.0	ODOR; SATURATION AT 2.5' BGS.		PVC RISER DIA 2" 0 - 4'
		0.0	2.5 - 3.5' - SANDY CLAY (CLS): BROWN; MIXED		FILTER SAND 3.5 - 7'
		0.0	WITH SANDSTONE AND GRAVEL COBBLES.		WELL SCREEN DIA 2" SLOT 0.010 4 - 7'
5		0.0	3.5 - 5' - SANDY CLAY (CLS): BROWN; MIXED WITH		
			SANDSTONE COBBLES.		
			5 - 7' - SANDY CLAY (CLS): BROWN/YELLOW		
			SANDY CLAY CUTTINGS; POOR RECOVERY.		
			7' - AUGER REFUSAL AT 7' BGS.		
10					
15					
20					
25					
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35					

Paul E. Sun 6-14-18



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-IBR

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL-14'/TERMINATED-27' BGS.
SATURATED ZONE: 20' BGS.
TOC ELEVATION:

WEATHER: SUN/50'S
LOGGED BY: BEN AZAR
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DAMION CANNISTRACI
BOREHOLE COMPLETION: MONITORING WELL
DATE: 11/10/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 0.5' - ASPHALT.		
	0		0.5 - 3 - FILL: ROCKY CLAY FILL.		CONCRETE 0 - 1'
	0				
	0		3 - 8' - SANDY CLAY (CLS): ROCKY; SUBANGULAR;		
	0.6		ODOR AT 7' BGS; LIMESTONE COBBLE CUTTING		
5	1.6		FROM 7.5 TO 8' BGS - SWITCHED TO AIR ROTARY.		
			8 - 14' - LIMESTONE: MIXED WITH SHALE AND		
10			INCOMPETENT SOILS; RETURNING TO AUGERING		BENTONITE 1 - 20'
			FROM 8 YO 14' BGS;		
15			14 - 15' - SANDSTONE: SANDSTONE CHIPS - AIR		
			ROTARY RESUMED.		
			15 - 17' - SANDSTONE: VERY HARD; LOW DUST;		
			FRACTURE AT 16' BGS.		
			17 - 19' - SANDSTONE: DARK BROWN, WITH BLACK		
			DUST; VERY SPOT; COAL AT 18.5' BGS.		
20			19 - 20' - SANDSTONE: HARDER; WATER AT 20'		
			BGS.		PVC RISER DIA 2" 0 - 21'
			20 - 22.5' - SANDSTONE: EXTREMELY SOFT;		
			FRACTURES; SIGNIFICANTLY MORE WATER; LOST		
			CUTTINGS AT 20' BGS.		
			22.5 - 23.5' - SANDSTONE: VERY HARD ; WATER		
			STEADY; SOFTER.		FILTER SAND 20 - 27'
25			23.5 - 24' - SANDSTONE: SOFTER.		WELL SCREEN DIA 2" SLOT 0.010 21 - 27'
			24 - 27' - SANDSTONE: HARDER; FRACTURE AT		
			25.5' BGS.		
			27' - TERMINATED AT 27' BGS - SANDSTONE.		
30					
35					



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW--2BR

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL-14'/TERMINATED-30.3' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: SUN/50'S
LOGGED BY: BEN AZAR
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DAMION CANNISTRACI
BOREHOLE COMPLETION: MONITORING WELL
DATE: 11/9/2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 0.5' - FILL: GRASS/ORGANICS.		
	0		0.5 - 4' - GRAVELLY CLAY (CLG):		
	0		YELLOW-ORANGE CLAY, MIXED WITH LARGE		
	0		GRAVEL/SMALL COBBLES OF SANDSTONE; MEDIUM		
	0.1		MOISTURE.		
5			4 - 6' - SILTY CLAY.		
			6 - 8' - SANDY CLAY (CLS): YELLOW-ORANGE; NO		
			ODOR; SANDSTONE COBBLES MIXED IN FROM 7 TO		
			8' BGS.		
10			8 - 15' - SANDY CLAY (CLS): MEDIUM MOISTURE;		
			SANDSTONE COBBLES TO 15' BGS' AUGER REFUSAL		
			AT 14' BGS - SWITCHED TO AIR ROTARY.		
15			15 - 17' - SANDSTONE CHIPS: NO DUST; MUD		
			(SATURATED) IN CUTTINGS - FAIRLY HARD.		
			17 - 20' - SANDSTONE CHIPS: EXTREMELY SOFT;		
			NO CUTTINGS; RESUMED AUGERING - WATER IN		
			HOLE; RESUMED AIR ROTARY - SIGNIFICANT		
20			WATER.		
			20 - 21' - SANDSTONE: GREY/WHITE; LOW DUST.		
			21 - 25' - SANDSTONE: COMPETENT; EXTREMELY		
			HARD; LOW WATER FLOW; SIGNIFICANTLY MORE		
			WATER AT 23' BGS.		
25			25 - 25.5' - SANDSTONE: COMPETENT;		
			EXTREMELY HARD; SMALL FRACTURE.		
			25.5 - 30.3' - SANDSTONE: COMPETENT; HARD;		
			FRACTURES AT 25.5 - 26' BGS, 28 - 29' BGS, AND		
			29.5 - 30' BGS.		
30			30.3' - TERMINATED AT 30.3' BGS.		
35					

CONCRETE
0 - 1'

BENTONITE
1 - 24'

PVC RISER
DIA 2"
0 - 25'

FILTER SAND
24 - 30.3'
WELL SCREEN
DIA 2"
SLOT 0.010
25 - 30.3'

B. Azar



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-3BR

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: TERMINATED AT 22' BGS.
SATURATED ZONE: 16' BGS.
TOC ELEVATION:

WEATHER: SUN/30'S
LOGGED BY: BEN AZAR
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DAMION CANNISTRACI
BOREHOLE COMPLETION: MONITORING WELL
DATE: 11-18-2016
BOREHOLE DIAMETER: 2.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 1' - ASPHALT/FILL.		
		0	1 - 4.5' - SANDY CLAY (CLS): LOW MOISTURE; NO ODOR.		CONCRETE 0 - 1'
		0			
		0			
5		0	4.5 - 9.5' - SANDY CLAY (CLS): MEDIUM MOISTURE; MEDIUM PLASTICITY; AUGER REFUSAL AT 9.5' BGS - BEGAN AIR ROTARY.		
		0			
10			9.5 - 11' - SANDSTONE: YELLOW/BROWN; FAST ADVANCEMENT.		BENTONITE 1 - 15'
			11 - 12' - SANDSTONE: WHITE/GREY; FAST ADVANCEMENT.		
			12 - 16' - SANDSTONE: WHITE/GREY; HARDER DRILLING; MEDIUM DUST.		
15					
			16 - 19' - SAND (SW): BROWN; MOIST; FRACTURE FROM 16 - 19' BGS.		PVC RISER DIA 2" 0 - 16'
					FILTER SAND 15 - 22'
20			19 - 22' - SAND (SW): BROWN; SOFT AT 19' BGS; FRACTURE AT 20' BGS; HARDER DRILLING AT 20.5' BGS - LARGE FRACTURE AND HIGH WATER CONTENT.		WELL SCREEN DIA 2" SLOT 0.010 16 - 22'
			22' - TERMINATED AT 22' BGS.		
25					
30					
35					



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-4BR

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL - 14'/TERMINATED - 22' BGS.
SATURATED ZONE: 15.5' BGS.
TOC ELEVATION:

WEATHER: RAIN/50'S
LOGGED BY: BEN AZAR
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: MONITORING WELL
DATE: 3-28-2017
BOREHOLE DIAMETER: 4.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 5' - FILL: ASPHALT FROM 0 TO 0.3' BGS; CLAYS AND SANDY CLAY LOGGED POST SOFT DIG.		CONCRETE 0 - 1'
5		0	5 - 7.5' - SANDY CLAY (CLS): REDDISH IN COLOR.		
		0	7.5 - 8' - LIMESTONE: VERY HARD; POSSIBLE LIMESTONE CORBLE AS PER MW-1BR		BENTONITE 1 - 16'
10			8 - 14' - WEATHERED SHALE AND LIMESTONE: MIXED WITH SANDY CLAY SOILS; MEDIUM TO LOW MOISTURE - MOSTLY QUITE DRY; MEDIUM PLASTICITY; REFUSAL AT 14' BGS.		
15			14 - 17' - SANDSTONE: VERY HARD; BEGAN AIR ROTARY AT 14' BGS; WATER AT 15.5' BGS.		
			17 - 17.25' - COAL.		PVC RISER DIA 2" 0 - 17'
20			17.25 - 22' - SANDSTONE: SOFTER FROM 17.25 - 17.75' BGS; HARDER AT 17.75' BGS; 18.5' BGS - 2 FRACTURES - ONE SMALL - ONE APPROXIMATELY 0.5'; HARDER AT 19' BGS; FRACTURES AT 20' BGS AND 21' BGS; 21.5 - 22' BGS - FRACTURE.		FILTER SAND 16 - 22' WELL SCREEN DIA 2" SLOT 0.010 17 - 22'
25			22' - TERMINATED AT 22' BGS.		
30					
35					



MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-5BR

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL-20'/TERMINATED-26.5' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: SUNNY/70'S
LOGGED BY: LEAH MARKO
DRILLING METHOD: HSA/AIR ROTARY
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: MONITORING WELL
DATE: 8/23/2017
BOREHOLE DIAMETER: 4"/4.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0		0	0 - 8" - ASPHALT.		
	0	0	8" - 5' - CLAY (CH): BROWN HIGH PLASTICITY CLAY, WITH 20% ORANGE SANDY CLAY MIXED IN; PIECES OF SOIL AND BRICK FILL.		CONCRETE 0 - 1'
5	0	0	5 - 7' - SANDY CLAY (CLS): GREENISH-BROWN; HIGHER PLASTICITY AND HIGH MOISTURE CONTENT - DUE POSSIBLY TO RAIN - SUNNY THROUGHOUT SOFT DIG.		
	0	0	7 - 8' - SANDY CLAY (CLS): MEDIUM BROWN; LESS SAND GRAINS THAN PREVIOUS INTERVAL - 60% INSTEAD OF 80%.		
10	0	0	8 - 9' - SANDY CLAY (CLS): MEDIUM BROWN; SOME SANDSTONE - POSSIBLY COAL FRAGMENTS FROM FILL.		BENTONITE 1 - 20.5'
	0	0	9 - 10' - SILTY CLAY (CL-ML): GREENISH - DARK BROWN; NO VISIBLE SANDSTONE FRAGMENTS.		
15	0	0	10 - 12' - CLAY (CL): MEDIUM BROWN - MIXED WITH 60% LIGHT BROWN TO LIGHT ORANGE SANDY MOTTLES; LOW MOISTURE.		
	0	0	12 - 13' - CLAY (CL): LIGHT BROWN - MIXED WITH 70% ORANGISH SANDY MOTTLES; LOW MOISTURE.		
20	0	0	13 - 14' - SILTY SOIL (ML): ORANGE - WITH MANDY SANDSTONE GRAVEL PIECES MIXED IN.		
	0	0	14 - 15' - SANDY SOIL (SW): LIGHT TO MEDIUM BROWN; LOW PLASTICITY; MIXED WITH 50% SANDSTONE GRAVEL.		PVC RISER DIA 2" 0 - 21.5'
25	0	0	15 - 16' - SANDY SOIL (SW): VERY SANDY ORANGE SOIL, WITH LOW TO MEDIUM PLASTICITY; SOME SMALL CLAYBALLS FORMING ON AUGER; < 20% SANDSTONE GRAVEL CHUNKS; LOW MOISTURE CONTENT.		FILTER SAND 20.5 - 26.5' WELL SCREEN DIA 2" SLOT 0.010 21.5 - 26.5'
	0	0	16 - 20' - SANDY SOIL (SW): VERY SANDY ORANGE SOIL, WITH LOW TO MEDIUM PLASTICITY; NO ODOR; LOW MOISTURE CONTENT.		
30			20 - 23' - OVERBURDEN REFUSAL AT 20' BGS - SANDSTONE CHIPS; 21' - SANDSTONE CHIPS - LESS DUST THAN 20' BGS; 22' - FRACTURE IN SANDSTONE; STRONG ODOR; WATER AT FRACTURE.		
			23 - 26.5' - SILTSTONE: SOFT - VERY LITTLE HAMMERING SILTSTONE - ASSUMED DUE TO THE SILTY/FRAGMENTED NATURE OF THE HIGHLY SATURATED SOIL COMING UP.		
35			26.5' - TERMINATED AT 26.5' BGS - THOUGH THERE WAS ODOR AT FRACTURE POINT - NO PID READING WAS SEEN.		

Leah Marko *28 Aug 2017* *29 Aug 2017*

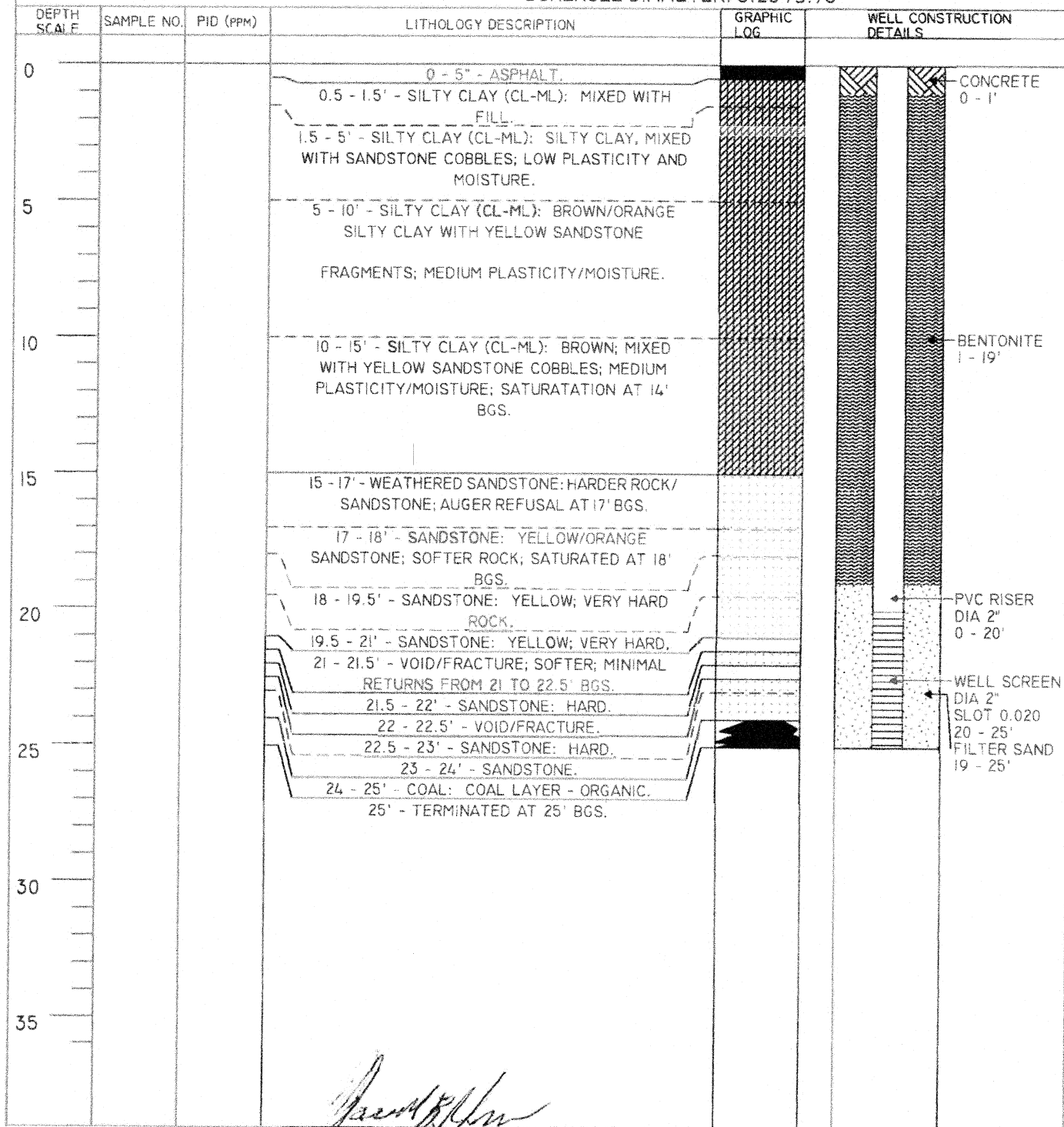


MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-6BR

PROJECT NO.: 4644.15.01
PROJECT NAME: MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: AUGER REFUSAL-17'/TERMINATED-25' BGS.
SATURATED ZONE: 18'
TOC ELEVATION:

WEATHER: 40's/RAINY
LOGGED BY: JACOB CLARA
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: MONITORING WELL
DATE: 2/25/2018
BOREHOLE DIAMETER: 6.25"/3.75"



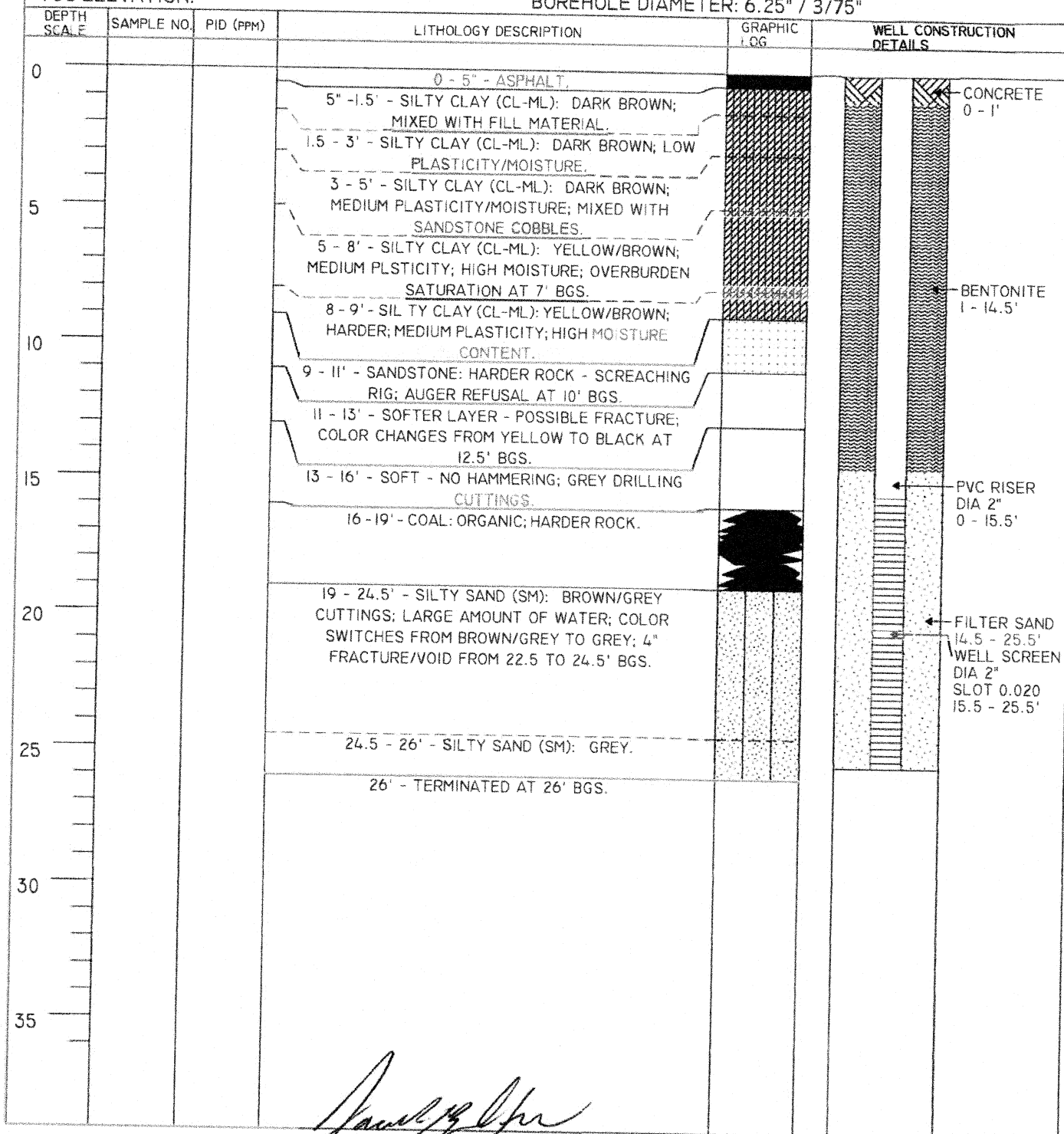


MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-7BR

PROJECT NO.: 4644.15.01
PROJECT NAME: MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: AUGER REFUSAL-10'/TERMINATED-26' BGS.
SATURATED ZONE: 19'
TOC ELEVATION:

WEATHER: 40'S/CLOUDY
LOGGED BY: JACOB CLARA
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: MONITORING WELL
DATE: 2/1/2018
BOREHOLE DIAMETER: 6.25" / 3/75"



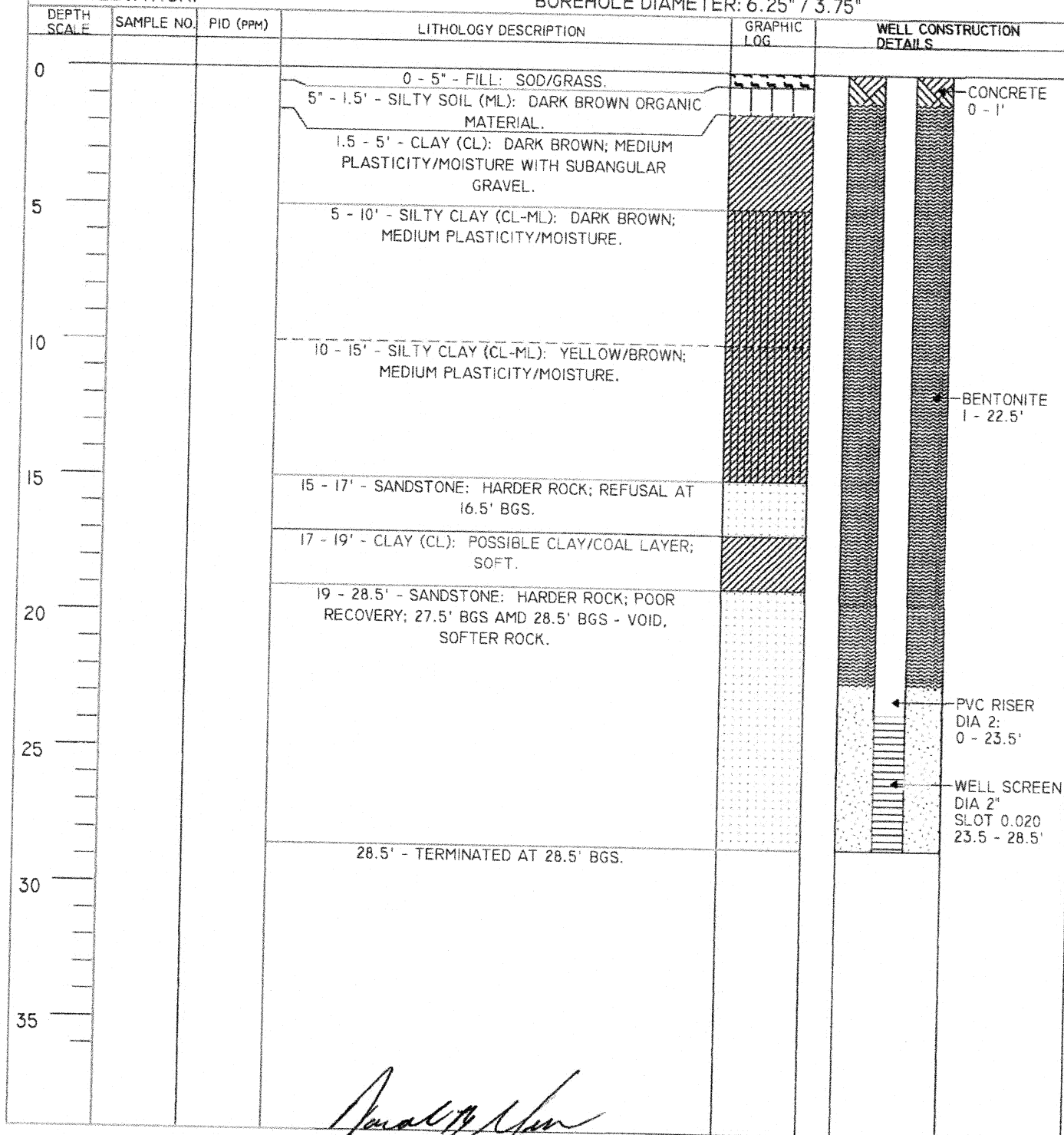


MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-8BR

PROJECT NO.: 4644.15.01
PROJECT NAME: MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: AUGER REFUSAL-16.5'/TERMINATED-28.5' BGS.
SATURATED ZONE: 24 - 28'
TOC ELEVATION:

WEATHER: 10'S/CLOUDY
LOGGED BY: JACOB CLARA
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: MONITORING WELL
DATE: 1/31/2018
BOREHOLE DIAMETER: 6.25" / 3.75"



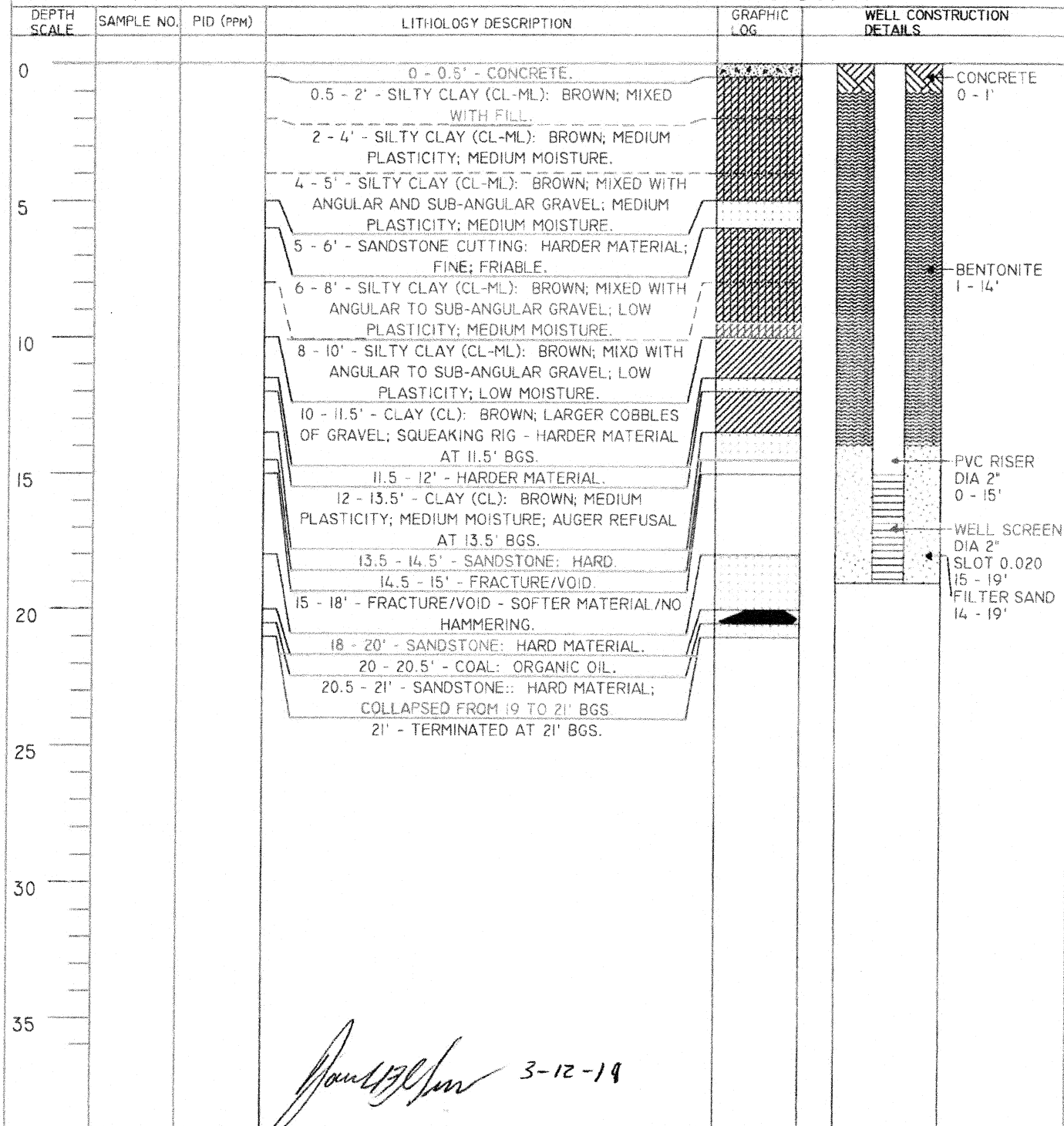


MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
MW-9BR

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: AUGER REFUSAL-13.5'/TERMINATED-21' BGS.
SATURATED ZONE: 15 - 19'
TOC ELEVATION:

WEATHER: 30'S/SUNNY
LOGGED BY: JACOB CLARA
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DREW SNYDER
BOREHOLE COMPLETION: MONITORING WELL DATE:
3/5/2018
BOREHOLE DIAMETER: 6.25"/3.75"





MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
EW-1

PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL - 11.5'/TERMINATED - 14' BGS.
SATURATED ZONE: N/A
TOC ELEVATION:

WEATHER: SUN/60'S
LOGGED BY: BEN AZAR
DRILLING METHOD: HOLLOW STEM AUGER
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: EXTRACTION WELL
DATE: 3-29-2017
BOREHOLE DIAMETER: 6.25"

DEPTH SCALE	SAMPLE NO.	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 5' - SANDY CLAY (CLS): YELLOW - BROWN; MEDIUM TO HIGH MOISTURE; HIGH PLASTICITY; FINE; NOTE - NOT LOGGED IN SOFT DIG AREA.		CONCRETE 0 - 1'
5	0		5 - 7' - SANDY CLAY (CLS): YELLOW - ORANGE; HIGH PLASTICITY.		BENTONITE 1 - 7'
	0		7 - 8' - SANDSTONE: RED/PINK SANDSTONE GRAVEL; ROUNDED.		
	4.6		8 - 8.5' - LIMESTONE: LIMESTONE BOULDER.		PVC RISER DIA 4" 0 - 9'
10	17.8		8.5 - 9.5 - SANDY CLAY (CLS): FINE; MEDIUM TO LOW PLASTICITY.		FILTER SAND 7 - 14'
	20.5		9.5 - 11' - SANDSTONE: SANDSTONE COBBLES.		
	244		11 - 14' - SANDSTONE: SANDSTONE COBBLES; STRONG ODOR; SWITCHED TO AIR ROTARY AT 11.5' BGS; EXTREMELY SOFT; TRANSITIONS TO BROWN SANDY CLAY AT BOTTOM OF INTERVAL.		WELL SCREEN DIA 4" SLOT 0.010 9 - 14'
15			14' - TERMINATED AT 14' BG - PINK/RED SANDSTONE.		
20					
25					
30					
35					


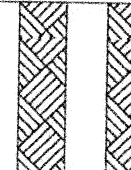





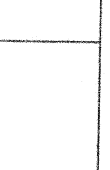
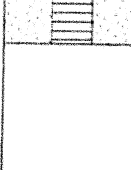




MOUNTAIN RESEARCH, LLC MONITORING WELL LOG

WELL NO.:
EW-I BR

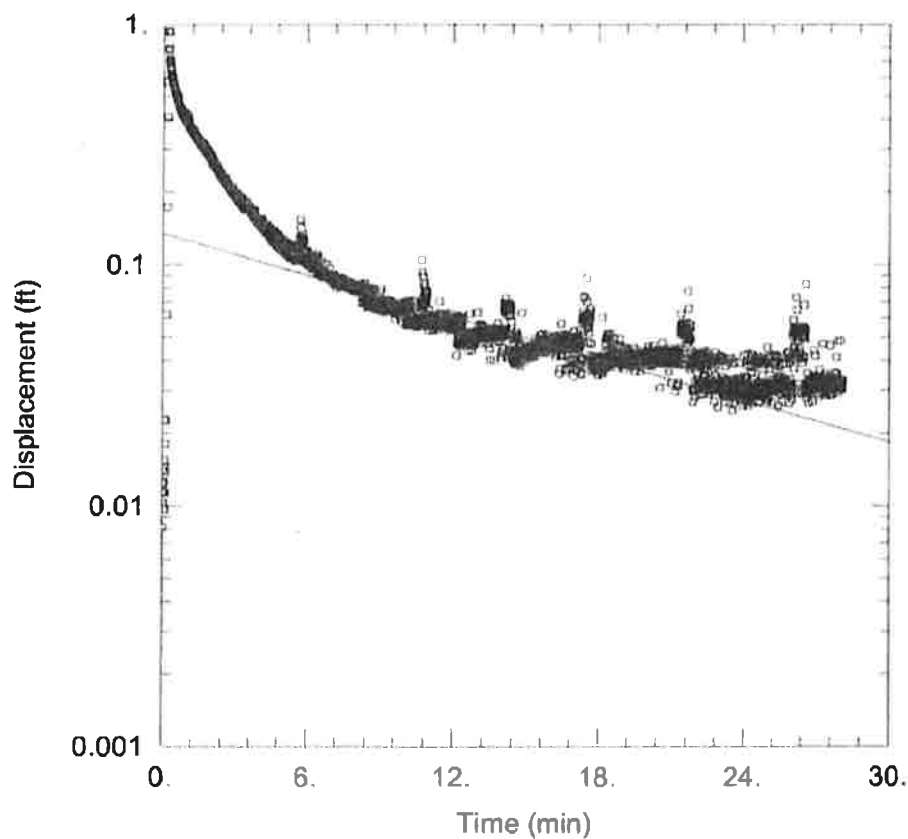
PROJECT NO.: 4644.15.01
PROJECT NAME: SOIL BORING/MW INSTALL
CLIENT: VENNARD'S
LOCATION: INDIANA, PA
DEPTH: REFUSAL - 14'/TERMINATED - 25' BGS.
SATURATED ZONE: 15' BGS.
TOC ELEVATION:

WEATHER: CLOUDY/40'S
LOGGED BY: BEN AZAR
DRILLING METHOD: HOLLOW STEM AUGER/AIR ROTARY
OPERATOR: DAVE BENNETT
BOREHOLE COMPLETION: MONITORING WELL
DATE: 3-30-2017
BOREHOLE DIAMETER: 6.25"

DEPTH SCALE	SAMPLE NO	PID (PPM)	LITHOLOGY DESCRIPTION	GRAPHIC LOG	WELL CONSTRUCTION DETAILS
0			0 - 5' - SANDY CLAY (CLS): BROWN; LOW PLASTICITY; MEDIUM TO HIGH MOISTURE; NOT LOGGED IN SOFT DIG.		 CONCRETE 0 - 1'
5	0	5.7	5 - 8' - SANDY CLAY (CLS): YELLOW-ORANGE; MEDIUM MOISTURE; HIGH PLASTICITY; LIMESTONE BOULDER AT 8' BGS.		
	0	0	8 - 11.5' - SANDY CLAY (CLS): YELLOW-ORANGE; MEDIUM MOISTURE; HIGH PLASTICITY.		 GROUT 1 - 16'
10	0	173	11.5 - 14' - WEATHERED SANDSTONE: SANDSTONE CHIPS AND MEDIUM SANDY SOILS; STARTED AIR ROTARY; LOW DUST; REFUSAL AT 14' BGS.		
15	0	202	14 - 18' - SANDSTONE: PINK-RED BEDROCK SANDSTONE; WATER A 15' BGS; LARGE FRACTURE AT 16' BGS.		
20			18 - 25' - THIN COAL LAYER - APPROXIMATELY 0.5' IN THICKNESS; FRACTURES AT 21' BGS, 23.5' BGS AND 24.5' BGS IN SANDSTONE.		 BENTONITE 16 - 18'
25			25' - TERMINATED AT 25' BGS.		 PVC RISER DIA 4" 0 - 20' FILTER SAND 18 - 25' WELL SCREEN DIA 4" SLOT 0.010 20 - 25'
30					
35					

APPEN DIX H

SLUG TEST ANALYSES



MW-2 FALLING HEAD

Data Set: H:\...MW-2 Falling Head.aqt

Date: 09/29/16

Time: 11:42:36

PROJECT INFORMATION

Company: Mountain Research

Client: Vennard's

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-2

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 12.25 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-2)

Initial Displacement: 0.9362 ft

Static Water Column Height: 12.25 ft

Total Well Penetration Depth: 12.25 ft

Screen Length: 16.5 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

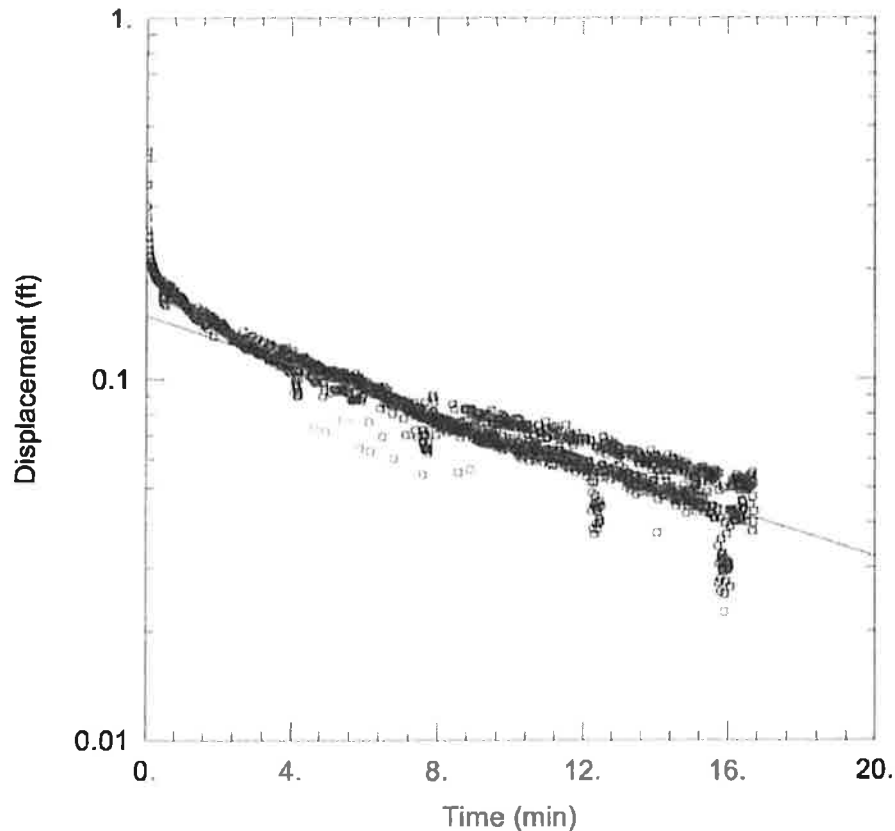
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.05952$ ft/day

$y_0 = 0.1343$ ft



MW-2 RISING HEAD

Data Set: H:\...MW-2 Rising Head.aqt

Date: 09/29/16

Time: 11:42:43

PROJECT INFORMATION

Company: Mountain Research

Client: Vennard's

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-2

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 12.3 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-2)

Initial Displacement: 0.409 ft

Static Water Column Height: 12.3 ft

Total Well Penetration Depth: 12.3 ft

Screen Length: 16.5 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

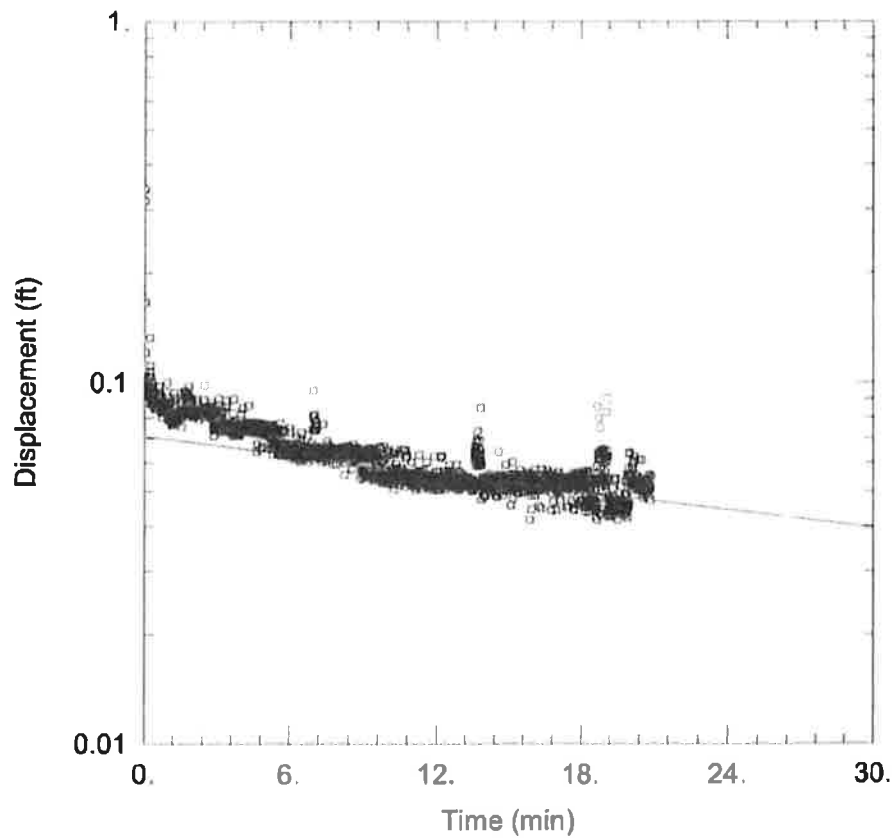
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.06905$ ft/day

$y_0 = 0.1496$ ft



MW-3 FALLING HEAD

Data Set: H:\...MW-3 Falling Head.aqt

Date: 09/29/16

Time: 11:42:53

PROJECT INFORMATION

Company: Mountain Research

Client: Vennards

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-3

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 2.36 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-3)

Initial Displacement: 0.343 ft

Static Water Column Height: 2.36 ft

Total Well Penetration Depth: 2.36 ft

Screen Length: 6. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

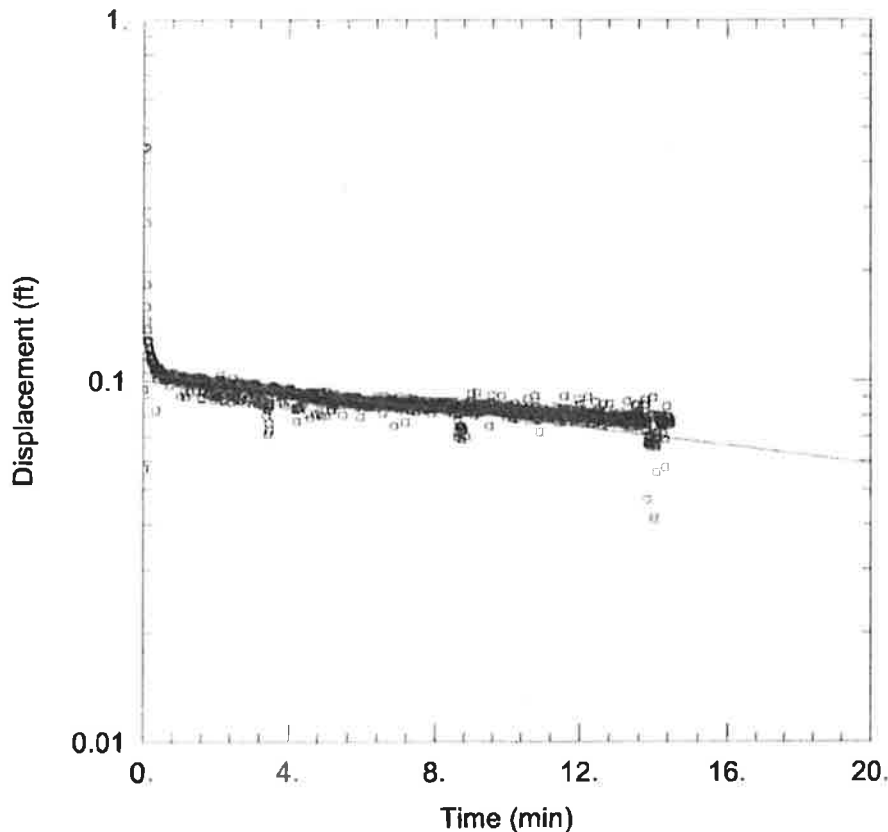
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.02795$ ft/day

$y_0 = 0.07087$ ft



MW-3 RISING HEAD

Data Set: H:\...MW-3 Rising Head.aqt

Date: 09/29/16

Time: 11:42:59

PROJECT INFORMATION

Company: Mountain Research

Client: Vennards

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-3

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 2.3 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-3)

Initial Displacement: 0.439 ft

Static Water Column Height: 2.3 ft

Total Well Penetration Depth: 2.3 ft

Screen Length: 6. ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

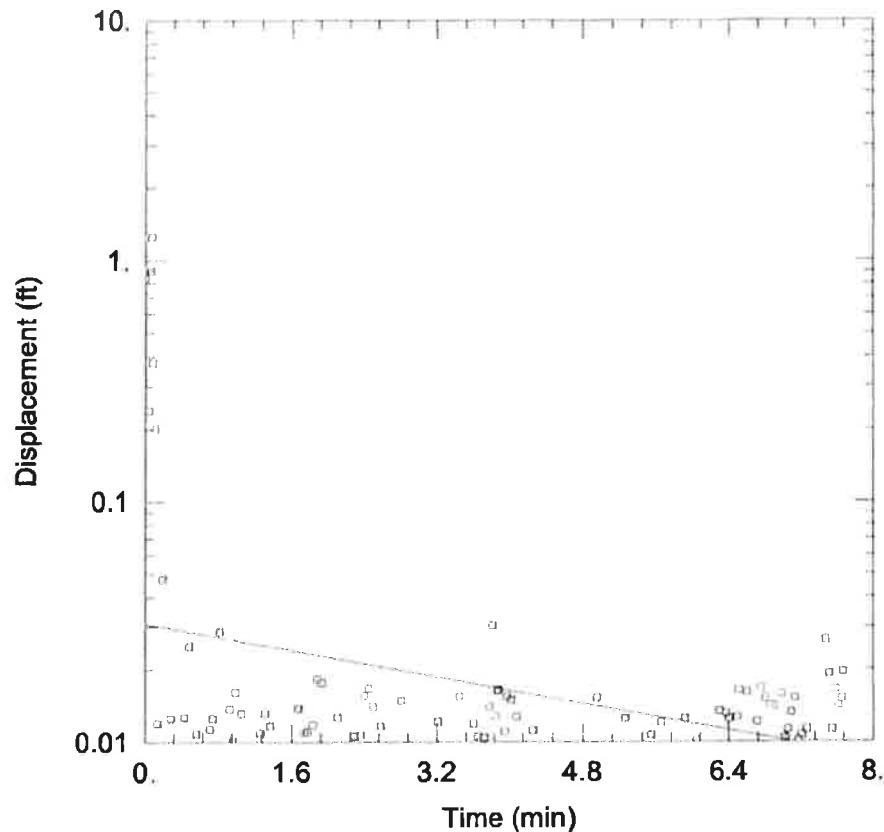
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.04133$ ft/day

$y_0 = 0.1055$ ft



MW-4 FALLING HEAD

Data Set: H:\...MW-4 Falling Head.aqt

Date: 09/29/16

Time: 11:43:06

PROJECT INFORMATION

Company: Mountain Research

Client: Vennards

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-4

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 10.65 ft

Anisotropy Ratio (K_z/K_r): 1

WELL DATA (MW-4)

Initial Displacement: 0.843 ft

Static Water Column Height: 10.65 ft

Total Well Penetration Depth: 10.65 ft

Screen Length: 15 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

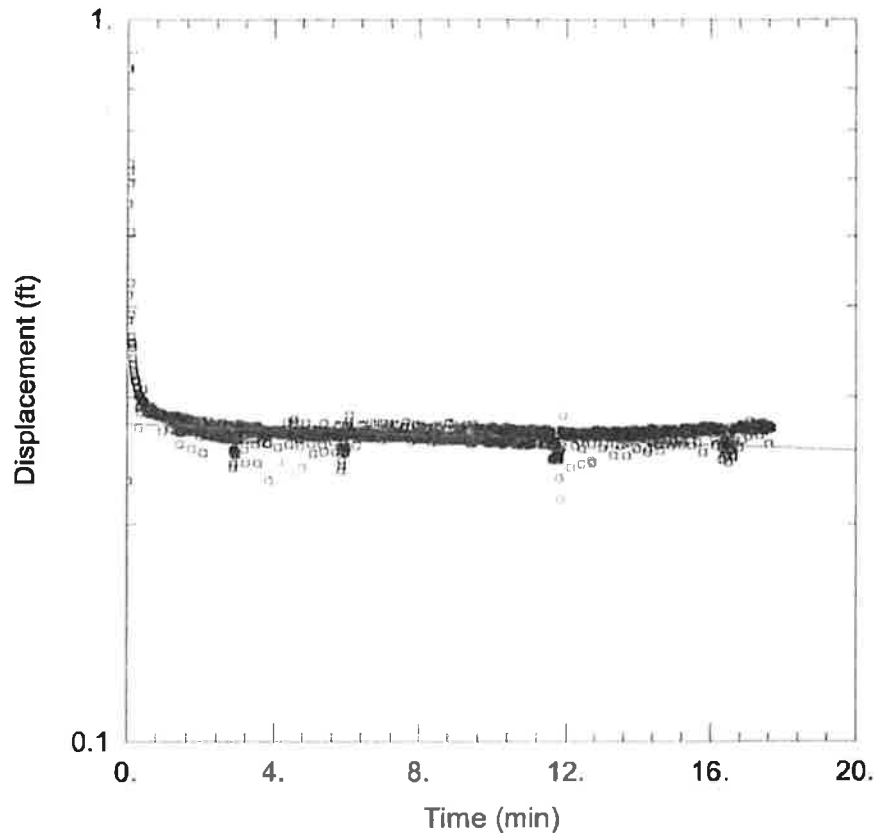
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.1516$ ft/day

$y_0 = 0.03095$ ft



MW-4 RISING HEAD

Data Set: H:\...MW-4 Rising Head.aqt
Date: 09/29/16

Time: 11:43:13

PROJECT INFORMATION

Company: Mountain Research
Client: Vennards
Project: 4644.15.01
Location: Indiana, PA
Test Well: MW-4
Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 10.87 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-4)

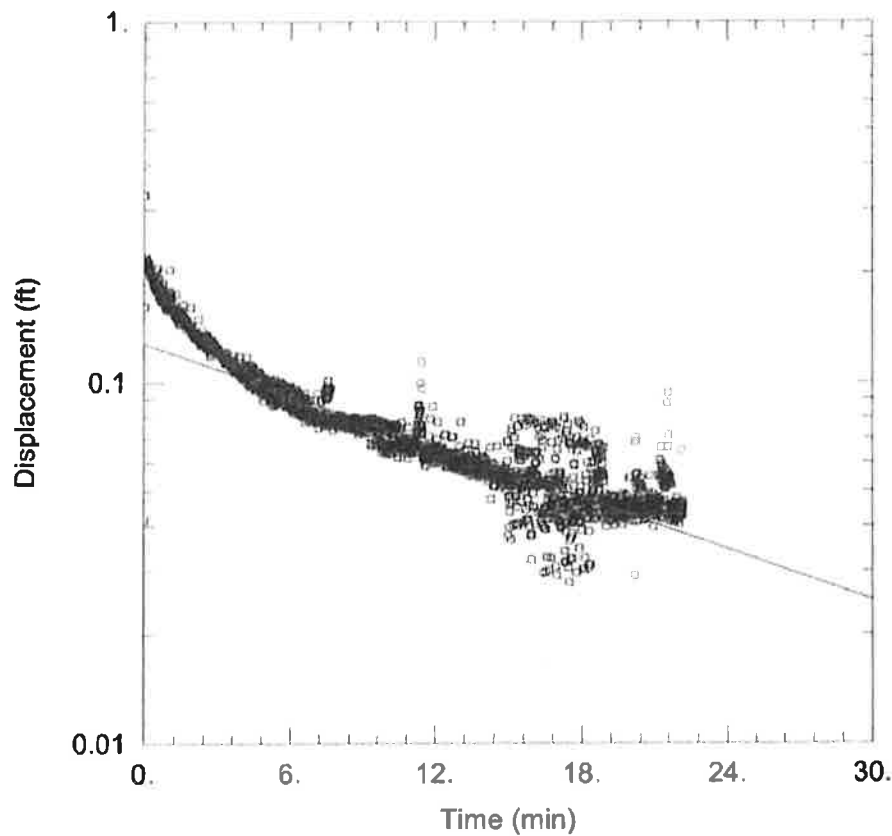
Initial Displacement: 0.8536 ft
Total Well Penetration Depth: 10.87 ft
Casing Radius: 0.083 ft

Static Water Column Height: 10.87 ft
Screen Length: 15. ft
Wellbore Radius: 0.166 ft

SOLUTION

Aquifer Model: Unconfined
 $K = 3.17E-6$ ft/min

Solution Method: Bouwer-Rice
 $y_0 = 0.2755$ ft



MW-6 FALLING HEAD

Data Set: H:\...\MW-6 Falling Head.aqt

Date: 09/29/16

Time: 11:43:19

PROJECT INFORMATION

Company: Mountain Research

Client: Vennards

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-6

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 4.65 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-6)

Initial Displacement: 0.3307 ft

Static Water Column Height: 4.65 ft

Total Well Penetration Depth: 4.65 ft

Screen Length: 6.5 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

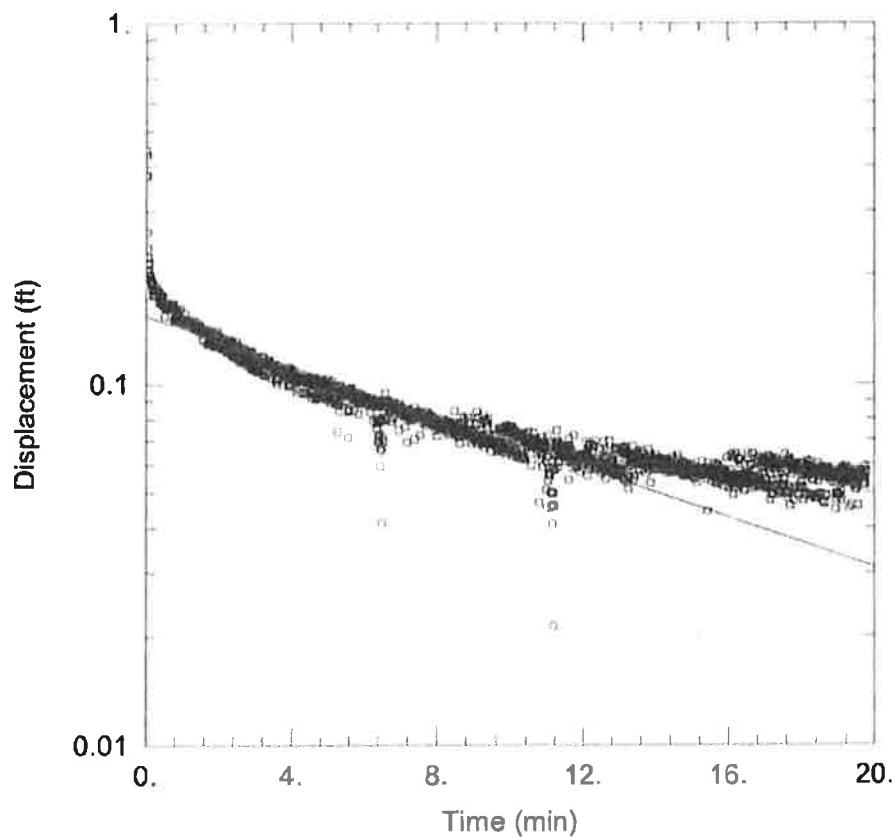
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.09147$ ft/day

$y_0 = 0.1277$ ft



MW-6 RISING HEAD

Data Set: H:\...MW-6 Rising Head.aqt

Date: 09/29/16

Time: 11:43:26

PROJECT INFORMATION

Company: Mountain Research

Client: Vennards

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-6

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 4.72 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-6)

Initial Displacement: 0.442 ft

Static Water Column Height: 4.72 ft

Total Well Penetration Depth: 4.72 ft

Screen Length: 6.5 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

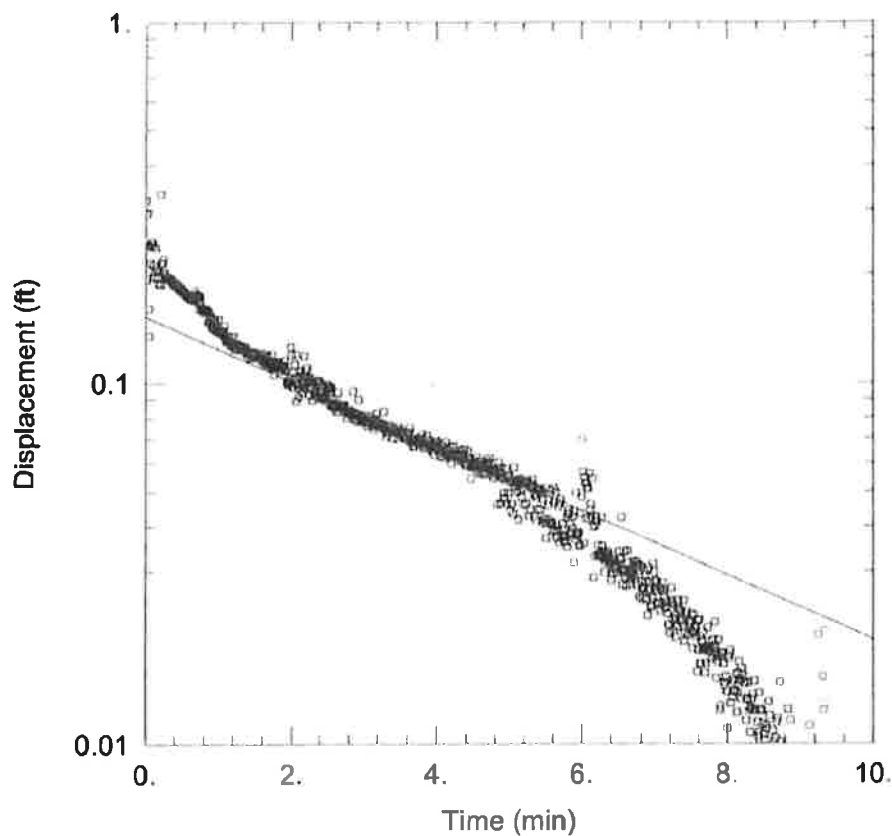
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.1352$ ft/day

$y_0 = 0.1542$ ft



MW-7 FALLING HEAD

Data Set: H:\...\MW-7 Falling Head.aqt

Date: 09/29/16

Time: 11:43:32

PROJECT INFORMATION

Company: Mountain Research

Client: Vennards

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-7

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 4.55 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-7)

Initial Displacement: 0.32 ft

Static Water Column Height: 4.55 ft

Total Well Penetration Depth: 4.55 ft

Screen Length: 8.5 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

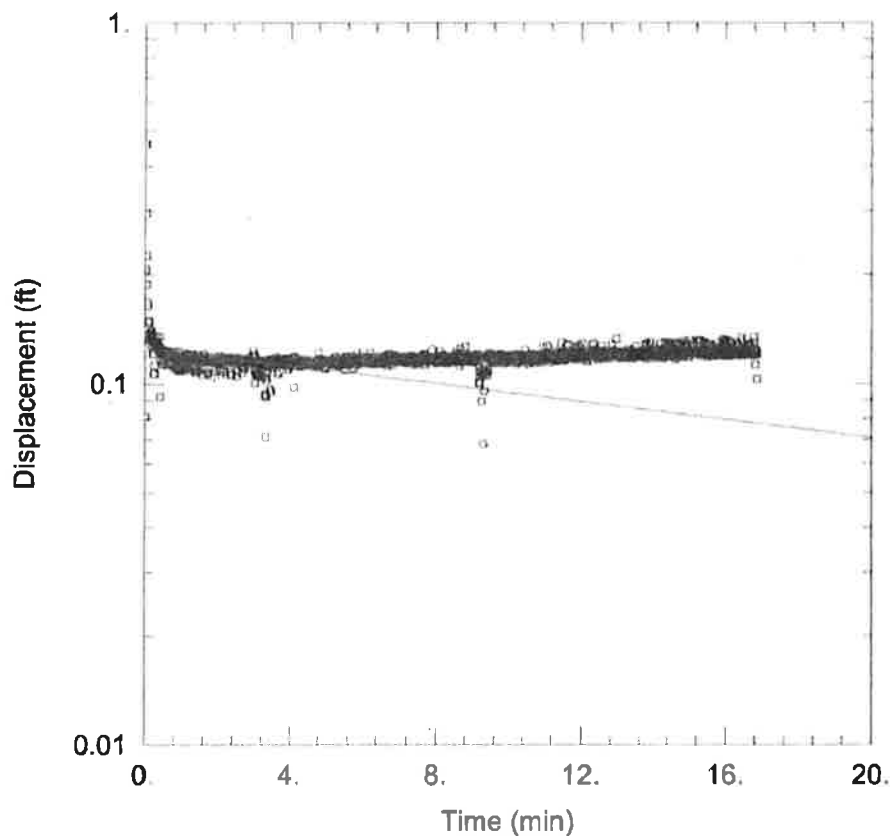
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.2686$ ft/day

$y_0 = 0.1521$ ft



MW-7 RISING HEAD

Data Set: H:\...MW-7 Rising Head.aqt

Date: 09/29/16

Time: 11:43:37

PROJECT INFORMATION

Company: Mountain Research

Client: Vennards

Project: 4644.15.01

Location: Indiana, PA

Test Well: MW-7

Test Date: 9/19/2016

AQUIFER DATA

Saturated Thickness: 4.55 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-7)

Initial Displacement: 0.4598 ft

Static Water Column Height: 4.55 ft

Total Well Penetration Depth: 4.55 ft

Screen Length: 8.5 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.26 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.03757$ ft/day

$y_0 = 0.1262$ ft

APPENDIX I

HISTORICAL MINING MAP

Vennards Crossroads

Historical Mining map from Pennsylvania Mine Map Atlas PADEP source.

11/6/16

Red Arrow and Dot indicate intersection of Lucerne Rd. and RT 954 (Site)



Upper Freeport Lucerne Ernest E Seam Mine

Sheet RPCC-UMM-400_27395



Sheet RPHB_UMM_100_A14

No additional information listed for this Sheet – Interpreted to be Upper Freeport because of similar room and pillar configurations as previous Sheet.

APPENDIX J

LABORATORY DATA SHEETS – SOIL



GEOCHEMICAL TESTING

Environmental and Energy Analysis

2005 N. Center Ave.
Somerset, PA 15501

814/443-1671
814/445-6666
FAX: 814/445-6729

Thursday, September 03, 2015

Karen Perla
JEMCOR
PO BOX 126
JOHNSTOWN, PA 15907

Order No.: G1508F32

Dear Karen Perla:

Geochemical Testing received 5 sample(s) on 8/31/2015 for the analyses presented in the following report.

There were no problems with the analyses and all QC data met NELAC, EPA, and laboratory specifications except where noted in the Case Narrative or Laboratory Results.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Timothy W. Bergstresser
Director of Technical Services



Geochemical Testing

Date: 03-Sep-15

CLIENT: JEMCOR

Project:

Lab Order: G1508F32

CASE NARRATIVE

No problems were encountered during analysis of this workorder, except if noted in this report.

Vennard's Gas Station Phase II - 9761

Samples were not filtered in the field for dissolved metals by EPA 6020; samples were lab filtered and then preserved to pH < 2.

Legend: ND - Not Detected

J - Indicates an estimated value.

U - The analyte was not detected at or above the listed concentration, which is below the laboratory quantitation limit.

B - Analyte detected in the associated Method Blank

Q - Qualifier QL - Quantitation Limit DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

** - Value exceeds Action Limit

H - Method Hold Time Exceeded

MCL - Contaminant Limit



Laboratory Results

Geochemical Testing

Date: 03-Sep-15

CLIENT:	JEMCOR	Client Sample ID:	SB1 7'	
Lab Order:	G1508F32			9761
Project:		Sampled By:	Client	
Lab ID:	G1508F32-001	Collection Date:	8/31/2015 9:45:00 AM	
Matrix:	SOLID	Received Date:	8/31/2015 2:16:26 PM	

Analyses	Result	QL	Q	Units	DF	Date Prepared	Date Analyzed
<hr/>							
TOTAL METALS		Analyst: BEH				EPA 3050	EPA 6010
Lead	4.6	2.0		mg/Kg-dry	1	09/01/15 12:20 PM	09/01/15 6:11 PM
<hr/>							
VOLATILE ORGANIC COMPOUNDS		Analyst: SJM				EPA 5035	EPA 8260
1,2,4-Trimethylbenzene	53	2.1		mg/Kg-dry	1800	08/31/15 3:05 PM	08/31/15 6:54 PM
1,2-Dibromoethane	< 0.021	0.021		mg/Kg-dry	18	08/31/15 3:05 PM	08/31/15 5:18 PM
1,2-Dichloroethane	< 0.021	0.021		mg/Kg-dry	18	08/31/15 3:05 PM	08/31/15 5:18 PM
1,3,5-Trimethylbenzene	15	2.1		mg/Kg-dry	1800	08/31/15 3:05 PM	08/31/15 6:54 PM
Benzene	3.9	2.1		mg/Kg-dry	1800	08/31/15 3:05 PM	08/31/15 6:54 PM
Ethylbenzene	12	2.1		mg/Kg-dry	1800	08/31/15 3:05 PM	08/31/15 6:54 PM
Isopropylbenzene	2.1	2.1		mg/Kg-dry	1800	08/31/15 3:05 PM	08/31/15 6:54 PM
Methyl-tert-butyl ether	< 0.021	0.021		mg/Kg-dry	18	08/31/15 3:05 PM	08/31/15 5:18 PM
Naphthalene	1.7	0.021		mg/Kg-dry	18	08/31/15 3:05 PM	08/31/15 5:18 PM
Toluene	17	2.1		mg/Kg-dry	1800	08/31/15 3:05 PM	08/31/15 6:54 PM
Total Xylene	84	4.1		mg/Kg-dry	1800	08/31/15 3:05 PM	08/31/15 6:54 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	18	08/31/15 3:05 PM	08/31/15 5:18 PM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	18	08/31/15 3:05 PM	08/31/15 5:18 PM
Surr: Dibromofluoromethane	109	70-130		%REC	18	08/31/15 3:05 PM	08/31/15 5:18 PM
Surr: Toluene-d8	119	70-130		%REC	18	08/31/15 3:05 PM	08/31/15 5:18 PM

Laboratory Results

Geochemical Testing

Date: 03-Sep-15

CLIENT:	JEMCOR	Client Sample ID:	SB2 3'	
Lab Order:	G1508F32			9761
Project:		Sampled By:	Client	
Lab ID:	G1508F32-002	Collection Date:	8/31/2015 10:20:00 AM	
Matrix:	SOLID	Received Date:	8/31/2015 2:16:26 PM	

Analyses	Result	QL	Q	Units	DF	Date Prepared	Date Analyzed
TOTAL METALS							
		Analyst: BEH				EPA 3050	EPA 6010
Lead	57.3	2.0		mg/Kg-dry	1	09/01/15 12:20 PM	09/01/15 6:42 PM
VOLATILE ORGANIC COMPOUNDS							
		Analyst: SJM				EPA 5035	EPA 8260
1,2,4-Trimethylbenzene	13	0.57		mg/Kg-dry	460	08/31/15 3:05 PM	08/31/15 6:06 PM
1,2-Dibromoethane	< 0.028	0.028		mg/Kg-dry	23	08/31/15 3:05 PM	08/31/15 4:06 PM
1,2-Dichloroethane	< 0.028	0.028		mg/Kg-dry	23	08/31/15 3:05 PM	08/31/15 4:06 PM
1,3,5-Trimethylbenzene	3.9	0.57		mg/Kg-dry	460	08/31/15 3:05 PM	08/31/15 6:06 PM
Benzene	3.2	0.57		mg/Kg-dry	460	08/31/15 3:05 PM	08/31/15 6:06 PM
Ethylbenzene	3.3	0.57		mg/Kg-dry	460	08/31/15 3:05 PM	08/31/15 6:06 PM
Isopropylbenzene	0.57	0.028		mg/Kg-dry	23	08/31/15 3:05 PM	08/31/15 4:06 PM
Methyl-tert-butyl ether	< 0.028	0.028		mg/Kg-dry	23	08/31/15 3:05 PM	08/31/15 4:06 PM
Naphthalene	0.88	0.028		mg/Kg-dry	23	08/31/15 3:05 PM	08/31/15 4:06 PM
Toluene	15	0.57		mg/Kg-dry	460	08/31/15 3:05 PM	08/31/15 6:06 PM
Total Xylene	29	1.1		mg/Kg-dry	460	08/31/15 3:05 PM	08/31/15 6:06 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	23	08/31/15 3:05 PM	08/31/15 4:06 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	23	08/31/15 3:05 PM	08/31/15 4:06 PM
Surr: Dibromofluoromethane	107	70-130		%REC	23	08/31/15 3:05 PM	08/31/15 4:06 PM
Surr: Toluene-d8	101	70-130		%REC	23	08/31/15 3:05 PM	08/31/15 4:06 PM



Laboratory Results

Geochemical Testing

Date: 03-Sep-15

CLIENT: JEMCOR Client Sample ID: GW1 SB-4 10' 9761
Lab Order: G1508F32
Project: Sampled By: Client
Lab ID: G1508F32-005 Collection Date: 8/31/2015 12:45:00 PM
Matrix: AQUEOUS Received Date: 8/31/2015 2:16:26 PM

Analyses	Result	QL	Q	Units	DF	Date Prepared	Date Analyzed
INORGANIC METALS		Analyst: RLM		EPA 200.2		EPA 6020	
Lead, dissolved	< 1.0	1.0		µg/L	2	09/01/15 9:15 AM	09/02/15 12:04 PM
VOLATILE ORGANIC COMPOUNDS		Analyst: SJM		EPA 8260			
1,2,4-Trimethylbenzene	1650	50.0		µg/L	50		08/31/15 7:42 PM
1,2-Dibromoethane	< 1.0	1.0		µg/L	1		08/31/15 3:18 PM
1,2-Dichloroethane	< 1.0	1.0		µg/L	1		08/31/15 3:18 PM
1,3,5-Trimethylbenzene	400	50.0		µg/L	50		08/31/15 7:42 PM
Benzene	10600	200		µg/L	200		09/01/15 3:40 PM
Ethylbenzene	2150	50.0		µg/L	50		08/31/15 7:42 PM
Isopropylbenzene	63.5	1.0		µg/L	1		08/31/15 3:18 PM
Methyl-tert-butyl ether	< 1.0	1.0		µg/L	1		08/31/15 3:18 PM
Naphthalene	218	50.0		µg/L	50		08/31/15 7:42 PM
Toluene	16200	200		µg/L	200		09/01/15 3:40 PM
Total Xylene	13400	100		µg/L	50		08/31/15 7:42 PM
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%REC	1		08/31/15 3:18 PM
Surr: 4-Bromofluorobenzene	117	70-130		%REC	1		08/31/15 3:18 PM
Surr: Dibromofluoromethane	110	70-130		%REC	1		08/31/15 3:18 PM
Surr: Toluene-d8	84.2	70-130		%REC	1		08/31/15 3:18 PM



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EPA Lab #PA00155

08 July 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1606426

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 06/22/16 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-1 11'	1606426-01	Soil	Grab	06/22/16 08:15	06/22/16 18:20
SB-2 11'	1606426-02	Soil	Grab	06/22/16 08:56	06/22/16 18:20
SB-3 8'	1606426-03	Soil	Grab	06/22/16 12:40	06/22/16 18:20
SB-3 12'	1606426-04	Soil	Grab	06/22/16 12:40	06/22/16 18:20
SB-4 9.5'	1606426-05	Soil	Grab	06/22/16 09:23	06/22/16 18:20
SB-5 13.5'	1606426-06	Soil	Grab	06/22/16 09:50	06/22/16 18:20
SB-6 6'	1606426-07	Soil	Grab	06/22/16 13:06	06/22/16 18:20
SB-6 11'	1606426-08	Soil	Grab	06/22/16 13:06	06/22/16 18:20
SB-7 8'	1606426-09	Soil	Grab	06/22/16 10:39	06/22/16 18:20
SB-7 13'	1606426-10	Soil	Grab	06/22/16 10:27	06/22/16 18:20
SB-8 10'	1606426-11	Soil	Grab	06/22/16 13:50	06/22/16 18:20
SB-8 15'	1606426-12	Soil	Grab	06/22/16 13:50	06/22/16 18:20
SB-9 9.5'	1606426-13	Soil	Grab	06/22/16 11:10	06/22/16 18:20
SB-9 10.5'	1606426-14	Soil	Grab	06/22/16 11:10	06/22/16 18:20
SB-10 15'	1606426-15	Soil	Grab	06/22/16 14:42	06/22/16 18:20
SB-10 18.5'	1606426-16	Soil	Grab	06/22/16 14:42	06/22/16 18:20
SB-10 21.5'	1606426-17	Soil	Grab	06/22/16 14:42	06/22/16 18:20
SB-11 19.0'	1606426-18	Soil	Grab	06/22/16 15:54	06/22/16 18:20
SB-11 21.5'	1606426-19	Soil	Grab	06/22/16 15:54	06/22/16 18:20

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1606426
Reported: 07/08/16 11:40

SB-1 11'

1606426-01 (Soil) Sampled: 06/22/16 08:15

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	88.5	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<226	226	27.1	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<226	226	23.7	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Benzene	<226	226	29.4	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Ethylbenzene	<226	226	23.7	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<226	226	19.2	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
MTBE	<226	226	28.3	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Naphthalene	<226	226	58.8	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Toluene	<226	226	26.0	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Xylene o	<226	226	37.3	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Xylene p/m	<452	452	59.9	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	
Xylenes, Total	<678	678	NA	NA	µg/Kg dry	06/23/16 20:09	06/23/16 20:09	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %		80-120		06/23/16 20:09	06/23/16 20:09	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		102 %		80-120		06/23/16 20:09	06/23/16 20:09	EPA 8260 B			
Surrogate: Dibromofluoromethane		96.0 %		80-120		06/23/16 20:09	06/23/16 20:09	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		06/23/16 20:09	06/23/16 20:09	EPA 8260 B			

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1606426
Reported: 07/08/16 11:40

SB-2 11'

1606426-02 (Soil) Sampled: 06/22/16 08:56

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	89.6	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<223	223	26.8	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<223	223	23.4	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Benzene	<223	223	29.0	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Ethylbenzene	<223	223	23.4	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<223	223	19.0	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
MTBE	<223	223	27.9	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Naphthalene	<223	223	58.0	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Toluene	<223	223	25.7	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Xylene o	<223	223	36.8	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Xylene p/m	<446	446	59.2	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	
Xylenes, Total	<670	670	NA	NA	µg/Kg dry	06/24/16 01:23	06/24/16 01:23	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		107 %		80-120		06/24/16 01:23	06/24/16 01:23	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		06/24/16 01:23	06/24/16 01:23	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.1 %		80-120		06/24/16 01:23	06/24/16 01:23	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 01:23	06/24/16 01:23	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-3 8'

1606426-03 (Soil) Sampled: 06/22/16 12:40

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	85.5	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	389	234	28.1	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<234	234	24.6	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Benzene	520	234	30.4	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Ethylbenzene	541	234	24.6	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<234	234	19.9	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
MTBE	<234	234	29.2	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Naphthalene	<234	234	60.8	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Toluene	3210	234	26.9	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Xylene o	946	234	38.6	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Xylene p/m	2520	468	62.0	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	
Xylenes, Total	3460	702	NA	NA	µg/Kg dry	06/24/16 01:49	06/24/16 01:49	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101 %		80-120		06/24/16 01:49	06/24/16 01:49	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		06/24/16 01:49	06/24/16 01:49	EPA 8260 B			
Surrogate: Dibromofluoromethane		100 %		80-120		06/24/16 01:49	06/24/16 01:49	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		06/24/16 01:49	06/24/16 01:49	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-3 12'

1606426-04 (Soil) Sampled: 06/22/16 12:40

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	84.5	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<237	237	28.4	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<237	237	24.9	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Benzene	433	237	30.8	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Ethylbenzene	575	237	24.9	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<237	237	20.1	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
MTBE	<237	237	29.6	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Naphthalene	<237	237	61.6	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Toluene	<237	237	27.2	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Xylene o	<237	237	39.1	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Xylene p/m	<473	473	62.7	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	
Xylenes, Total	<710	710	NA	NA	µg/Kg dry	06/24/16 02:15	06/24/16 02:15	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		109 %		80-120		06/24/16 02:15	06/24/16 02:15	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		100 %		80-120		06/24/16 02:15	06/24/16 02:15	EPA 8260 B			
Surrogate: Dibromofluoromethane		100 %		80-120		06/24/16 02:15	06/24/16 02:15	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		06/24/16 02:15	06/24/16 02:15	EPA 8260 B			

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Stephen Gampe

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-4 9.5'

1606426-05 (Soil) Sampled: 06/22/16 09:23

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	89.0	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<225	225	27.0	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<225	225	23.6	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Benzene	<225	225	29.2	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Ethylbenzene	<225	225	23.6	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<225	225	19.1	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
MTBE	<225	225	28.1	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Naphthalene	<225	225	58.5	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Toluene	<225	225	25.9	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Xylene o	<225	225	37.1	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Xylene p/m	<450	450	59.6	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	
Xylenes, Total	<675	675	NA	NA	µg/Kg dry	06/24/16 02:41	06/24/16 02:41	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %		80-120		06/24/16 02:41	06/24/16 02:41	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		103 %		80-120		06/24/16 02:41	06/24/16 02:41	EPA 8260 B			
Surrogate: Dibromofluoromethane		101 %		80-120		06/24/16 02:41	06/24/16 02:41	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		06/24/16 02:41	06/24/16 02:41	EPA 8260 B			

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-5 13.5'

1606426-06 (Soil) Sampled: 06/22/16 09:50

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	86.0	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<233	233	27.9	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<233	233	24.4	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Benzene	<233	233	30.2	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Ethylbenzene	<233	233	24.4	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<233	233	19.8	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
MTBE	<233	233	29.1	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Naphthalene	<233	233	60.5	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Toluene	<233	233	26.8	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Xylene o	<233	233	38.4	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Xylene p/m	<465	465	61.6	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	
Xylenes, Total	<698	698	NA	NA	µg/Kg dry	06/24/16 03:07	06/24/16 03:07	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101 %		80-120		06/24/16 03:07	06/24/16 03:07	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		06/24/16 03:07	06/24/16 03:07	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.3 %		80-120		06/24/16 03:07	06/24/16 03:07	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 03:07	06/24/16 03:07	EPA 8260 B			

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Page 8 of 27



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1606426
Reported: 07/08/16 11:40

SB-6 6'

1606426-07 (Soil) Sampled: 06/22/16 13:06

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	89.0	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	7960	225	27.0	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	2210	225	23.6	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Benzene	<225	225	29.2	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Ethylbenzene	3840	225	23.6	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	228	225	19.1	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
MTBE	<225	225	28.1	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Naphthalene	678	225	58.5	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Toluene	480	225	25.9	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Xylene o	2500	225	37.1	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Xylene p/m	13200	450	59.6	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	
Xylenes, Total	15800	675	NA	NA	µg/Kg dry	06/24/16 03:34	06/24/16 03:34	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %		80-120		06/24/16 03:34	06/24/16 03:34	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		102 %		80-120		06/24/16 03:34	06/24/16 03:34	EPA 8260 B			
Surrogate: Dibromofluoromethane		95.9 %		80-120		06/24/16 03:34	06/24/16 03:34	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		06/24/16 03:34	06/24/16 03:34	EPA 8260 B			

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1606426
Reported: 07/08/16 11:40

SB-6 11'

1606426-08 (Soil) Sampled: 06/22/16 13:06

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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General Chemistry by Standard/EPA/ASTM Methods

Total Solids	88.8	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	13000	225	27.0	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	4040	225	23.6	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
Benzene	<225	225	29.3	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
Ethylbenzene	7030	225	23.6	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	651	225	19.1	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
MTBE	<225	225	28.1	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
Naphthalene	1160	225	58.5	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
Toluene	3400	225	25.9	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
Xylene o	6060	225	37.2	NA	µg/Kg dry	06/24/16 04:00	06/24/16 04:00	EPA 8260 B	A	JMG	
Xylene p/m	28300	2250	298	NA	µg/Kg dry	06/24/16 04:00	06/25/16 00:39	EPA 8260 B	A	JMG	D1
Xylenes, Total	34400	2480	NA	NA	µg/Kg dry	06/24/16 04:00	06/25/16 00:39	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4		94.4 %		80-120		06/24/16 04:00	06/24/16 04:00	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		06/24/16 04:00	06/24/16 04:00	EPA 8260 B			
Surrogate: Dibromofluoromethane		93.6 %		80-120		06/24/16 04:00	06/24/16 04:00	EPA 8260 B			
Surrogate: Toluene-d8		100 %		80-120		06/24/16 04:00	06/24/16 04:00	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1606426
Reported: 07/08/16 11:40

SB-7 8'

1606426-09 (Soil) Sampled: 06/22/16 10:39

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	89.4	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	<224	224	26.8	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<224	224	23.5	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Benzene	<224	224	29.1	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Ethylbenzene	<224	224	23.5	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<224	224	19.0	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
MTBE	<224	224	27.9	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Naphthalene	<224	224	58.1	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Toluene	<224	224	25.7	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Xylene o	<224	224	36.9	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Xylene p/m	<447	447	59.3	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	
Xylenes, Total	<671	671	NA	NA	µg/Kg dry	06/24/16 04:26	06/24/16 04:26	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		104 %		80-120		06/24/16 04:26	06/24/16 04:26	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		103 %		80-120		06/24/16 04:26	06/24/16 04:26	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.2 %		80-120		06/24/16 04:26	06/24/16 04:26	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 04:26	06/24/16 04:26	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-7 13'

1606426-10 (Soil) Sampled: 06/22/16 10:27

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	88.2	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	375	227	27.2	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<227	227	23.8	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Benzene	<227	227	29.5	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Ethylbenzene	455	227	23.8	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<227	227	19.3	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
MTBE	<227	227	28.3	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Naphthalene	<227	227	58.9	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Toluene	<227	227	26.1	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Xylene o	546	227	37.4	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Xylene p/m	1570	453	60.1	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	
Xylenes, Total	2120	680	NA	NA	µg/Kg dry	06/24/16 04:52	06/24/16 04:52	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %		80-120		06/24/16 04:52	06/24/16 04:52	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		102 %		80-120		06/24/16 04:52	06/24/16 04:52	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.5 %		80-120		06/24/16 04:52	06/24/16 04:52	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 04:52	06/24/16 04:52	EPA 8260 B			

Mountain Research, LLC

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-8 10'

1606426-11 (Soil) Sampled: 06/22/16 13:50

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	88.2	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	235	227	27.2	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<227	227	23.8	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Benzene	<227	227	29.5	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Ethylbenzene	444	227	23.8	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<227	227	19.3	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
MTBE	<227	227	28.3	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Naphthalene	<227	227	59.0	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Toluene	2470	227	26.1	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Xylene o	638	227	37.4	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Xylene p/m	2140	453	60.1	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	
Xylenes, Total	2770	680	NA	NA	µg/Kg dry	06/24/16 05:18	06/24/16 05:18	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		99.5 %		80-120		06/24/16 05:18	06/24/16 05:18	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		06/24/16 05:18	06/24/16 05:18	EPA 8260 B			
Surrogate: Dibromofluoromethane		99.4 %		80-120		06/24/16 05:18	06/24/16 05:18	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		06/24/16 05:18	06/24/16 05:18	EPA 8260 B			

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-8 15'

1606426-12 (Soil) Sampled: 06/22/16 13:50

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	87.0	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	<230	230	27.6	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<230	230	24.2	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Benzene	<230	230	29.9	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Ethylbenzene	<230	230	24.2	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<230	230	19.6	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
MTBE	<230	230	28.8	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Naphthalene	<230	230	59.8	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Toluene	<230	230	26.5	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Xylene o	<230	230	38.0	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Xylene p/m	<460	460	61.0	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	
Xylenes, Total	<690	690	NA	NA	µg/Kg dry	06/24/16 05:44	06/24/16 05:44	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %		80-120		06/24/16 05:44	06/24/16 05:44	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		102 %		80-120		06/24/16 05:44	06/24/16 05:44	EPA 8260 B			
Surrogate: Dibromofluoromethane		96.9 %		80-120		06/24/16 05:44	06/24/16 05:44	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		06/24/16 05:44	06/24/16 05:44	EPA 8260 B			

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-9 9.5'

1606426-13 (Soil) Sampled: 06/22/16 11:10

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	87.4	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	15300	1140	137	NA	µg/Kg dry	06/24/16 06:11	06/25/16 12:01	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	5470	229	24.0	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Benzene	1790	229	29.7	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Ethylbenzene	391	229	24.0	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	904	229	19.5	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
MTBE	<229	229	28.6	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Naphthalene	1020	229	59.5	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Toluene	<229	229	26.3	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Xylene o	<229	229	37.8	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Xylene p/m	6480	458	60.6	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	
Xylenes, Total	6480	686	NA	NA	µg/Kg dry	06/24/16 06:11	06/24/16 06:11	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		95.6 %		80-120		06/24/16 06:11	06/24/16 06:11	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		102 %		80-120		06/24/16 06:11	06/24/16 06:11	EPA 8260 B			
Surrogate: Dibromofluoromethane		94.0 %		80-120		06/24/16 06:11	06/24/16 06:11	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 06:11	06/24/16 06:11	EPA 8260 B			

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5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-9 10.5'

1606426-14 (Soil) Sampled: 06/22/16 11:10

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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General Chemistry by Standard/EPA/ASTM Methods

Total Solids	85.4	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	78300	2340	281	NA	µg/Kg dry	06/24/16 06:37	06/25/16 12:27	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	24900	2340	246	NA	µg/Kg dry	06/24/16 06:37	06/25/16 12:27	EPA 8260 B	A	JMG	D1
Benzene	5650	234	30.4	NA	µg/Kg dry	06/24/16 06:37	06/24/16 06:37	EPA 8260 B	A	JMG	
Ethylbenzene	4510	234	24.6	NA	µg/Kg dry	06/24/16 06:37	06/24/16 06:37	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	4590	234	19.9	NA	µg/Kg dry	06/24/16 06:37	06/24/16 06:37	EPA 8260 B	A	JMG	
MTBE	<234	234	29.3	NA	µg/Kg dry	06/24/16 06:37	06/24/16 06:37	EPA 8260 B	A	JMG	
Naphthalene	6220	234	60.9	NA	µg/Kg dry	06/24/16 06:37	06/24/16 06:37	EPA 8260 B	A	JMG	
Toluene	544	234	26.9	NA	µg/Kg dry	06/24/16 06:37	06/24/16 06:37	EPA 8260 B	A	JMG	
Xylene o	551	234	38.6	NA	µg/Kg dry	06/24/16 06:37	06/24/16 06:37	EPA 8260 B	A	JMG	
Xylene p/m	43500	4680	620	NA	µg/Kg dry	06/24/16 06:37	06/25/16 12:27	EPA 8260 B	A	JMG	D1
Xylenes, Total	44100	4920	NA	NA	µg/Kg dry	06/24/16 06:37	06/25/16 12:27	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4		92.0 %		80-120		06/24/16 06:37	06/24/16 06:37	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		99.4 %		80-120		06/24/16 06:37	06/24/16 06:37	EPA 8260 B			
Surrogate: Dibromofluoromethane		91.0 %		80-120		06/24/16 06:37	06/24/16 06:37	EPA 8260 B			
Surrogate: Toluene-d8		106 %		80-120		06/24/16 06:37	06/24/16 06:37	EPA 8260 B			

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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-10 15'

1606426-15 (Soil) Sampled: 06/22/16 14:42

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	83.2	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<240	240	28.8	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<240	240	25.2	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Benzene	<240	240	31.2	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Ethylbenzene	<240	240	25.2	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<240	240	20.4	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
MTBE	<240	240	30.0	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Naphthalene	<240	240	62.5	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Toluene	<240	240	27.6	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Xylene o	<240	240	39.6	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Xylene p/m	<481	481	63.7	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	
Xylenes, Total	<721	721	NA	NA	µg/Kg dry	06/25/16 10:42	06/25/16 10:42	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		99.6 %		80-120		06/25/16 10:42	06/25/16 10:42	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		104 %		80-120		06/25/16 10:42	06/25/16 10:42	EPA 8260 B			
Surrogate: Dibromofluoromethane		99.0 %		80-120		06/25/16 10:42	06/25/16 10:42	EPA 8260 B			
Surrogate: Toluene-d8		104 %		80-120		06/25/16 10:42	06/25/16 10:42	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-10 18.5'

1606426-16 (Soil) Sampled: 06/22/16 14:42

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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General Chemistry by Standard/EPA/ASTM Methods

Total Solids	81.2	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

Q1

1,2,4-Trimethylbenzene	<246	246	29.6	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<246	246	25.9	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Benzene	<246	246	32.0	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Ethylbenzene	<246	246	25.9	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<246	246	20.9	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
MTBE	<246	246	30.8	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Naphthalene	<246	246	64.1	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Toluene	261	246	28.3	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Xylene o	<246	246	40.7	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Xylene p/m	<493	493	65.3	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	
Xylenes, Total	<739	739	NA	NA	µg/Kg dry	06/24/16 07:29	06/24/16 07:29	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		97.5 %		80-120		06/24/16 07:29	06/24/16 07:29	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		06/24/16 07:29	06/24/16 07:29	EPA 8260 B			
Surrogate: Dibromofluoromethane		95.2 %		80-120		06/24/16 07:29	06/24/16 07:29	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 07:29	06/24/16 07:29	EPA 8260 B			

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5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-10 21.5'

1606426-17 (Soil) Sampled: 06/22/16 14:42

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	89.1	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<224	224	26.9	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<224	224	23.6	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Benzene	<224	224	29.2	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Ethylbenzene	<224	224	23.6	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<224	224	19.1	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
MTBE	<224	224	28.0	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Naphthalene	<224	224	58.3	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Toluene	<224	224	25.8	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Xylene o	<224	224	37.0	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Xylene p/m	<449	449	59.5	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	
Xylenes, Total	<673	673	NA	NA	µg/Kg dry	06/24/16 07:55	06/24/16 07:55	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		104 %		80-120		06/24/16 07:55	06/24/16 07:55	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		103 %		80-120		06/24/16 07:55	06/24/16 07:55	EPA 8260 B			
Surrogate: Dibromofluoromethane		94.4 %		80-120		06/24/16 07:55	06/24/16 07:55	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		06/24/16 07:55	06/24/16 07:55	EPA 8260 B			

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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1606426
Reported: 07/08/16 11:40

SB-11 19.0'

1606426-18 (Soil) Sampled: 06/22/16 15:54

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	85.3	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<235	235	28.1	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<235	235	24.6	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Benzene	<235	235	30.5	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Ethylbenzene	<235	235	24.6	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<235	235	19.9	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
MTBE	<235	235	29.3	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Naphthalene	<235	235	61.0	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Toluene	<235	235	27.0	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Xylene o	<235	235	38.7	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Xylene p/m	<469	469	62.2	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	
Xylenes, Total	<704	704	NA	NA	µg/Kg dry	06/24/16 08:22	06/24/16 08:22	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		106 %		80-120		06/24/16 08:22	06/24/16 08:22	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		102 %		80-120		06/24/16 08:22	06/24/16 08:22	EPA 8260 B			
Surrogate: Dibromofluoromethane		94.3 %		80-120		06/24/16 08:22	06/24/16 08:22	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 08:22	06/24/16 08:22	EPA 8260 B			

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

Page 20 of 27



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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

SB-11 21.5'

1606426-19 (Soil) Sampled: 06/22/16 15:54

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	90.9	1.00	0.0500	NA	wt%	07/06/16 18:20	07/06/16 18:20	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	<220	220	26.4	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<220	220	23.1	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Benzene	<220	220	28.6	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Ethylbenzene	<220	220	23.1	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<220	220	18.7	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
MTBE	<220	220	27.5	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Naphthalene	<220	220	57.2	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Toluene	<220	220	25.3	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Xylene o	<220	220	36.3	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Xylene p/m	<440	440	58.3	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	
Xylenes, Total	<660	660	NA	NA	µg/Kg dry	06/24/16 08:48	06/24/16 08:48	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %		80-120		06/24/16 08:48	06/24/16 08:48	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		102 %		80-120		06/24/16 08:48	06/24/16 08:48	EPA 8260 B			
Surrogate: Dibromofluoromethane		95.9 %		80-120		06/24/16 08:48	06/24/16 08:48	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		06/24/16 08:48	06/24/16 08:48	EPA 8260 B			

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606426
Reported:
07/08/16 11:40

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2016
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2016

Notes and Definitions

O1	The VOC vial contained an amount of soil outside the EPA recommendation.
D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

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Stephen Gampe, Assistant Laboratory Manager

Page 22 of 27

MR PROJECT NAME Drilling Vennard's		MR PROJECT # 4644.15.01		SITE LOCATION Indiana, PA		SAMPLER(S) BA	
825 25th Street, Altoona, PA 16601 110 McCracken Run Road, Dubois, PA 15801				MOUNTAIN RESEARCH LLC (814) 949-2034 (800) 837-4674 FAX (814) 949-9591 (814) 371-6030 Fax (814) 375-0823			
CHAIN OF CUSTODY RECORD							
NOTES: Received On loc (Y) / N Sample Temp: 5.8 PWSID #: Comments:		ANALYSES REQUESTED		MR PROJ. MGR. MK Shipping Carrier:		Turn Around Time: 10 Day <input checked="" type="checkbox"/> 3 Day <input type="checkbox"/> 1 Day <input type="checkbox"/> Comments:	
RELINQUISHED BY: Kevin An		DATE 6/22/16		TIME 1306		ACCEPTED BY: [Signature]	
RELINQUISHED BY:		DATE		TIME		ACCEPTED BY:	
DATE 6/22/16		DATE/TIME 6/22/16 1820		Lab Workorder #: 7606425		Log In Time: 1350	
DATE		DATE/TIME		Labeled By:		Staff: Rd	
DATE		DATE/TIME		Labeled By:		Staff:	

SAMPLE ID	DATE	TIME	GRAB	COMP	MATRIX	NUMBER OF CONTAINERS	PRODUCT CODE	ANALYSES REQUESTED		MR PROJ. MGR.	Shipping Carrier	Turn Around Time	Comments
								Preserve	LAB NUMBER				
SB-6 6ft	6/22/16	1306	X		Soil	140 mL VOA	8260B	X		MEOH	07		
L						140 mL VOA				None			
SB-6 11.0ft						140 mL VOA				MEOH	08		
L						140 mL VOA				None			
SB-7 8.0ft		1039				140 mL VOA				MEOH	09		
L						140 mL VOA				None			
SB-7 13.0ft		1027				140 mL VOA				MEOH	10		
L						140 mL VOA				None			
SB-8 10.0ft		1350				140 mL VOA				MEOH	11		
L						140 mL VOA				None			
SB-8 15.0ft		1350				140 mL VOA				MEOH	12		
L						140 mL VOA				None			

Drilling
MR Project # 4644.15.01
CLIENT Vennard's
MR Project Name Vennard's
SITE LOCATION Indiana, PA
825 25th Street, Altoona, PA 16601
110 McCracken Run Road, Dubois, PA 15801
(814) 949-2034 (800) 837-4674 FAX (814) 949-9591
(814) 371-6030 Fax (814) 375-0823

CHAIN OF CUSTODY RECORD
Analyses Requested
MR PROJ. MGR. MKA
Shipping Carrier:
Turn Around Time:
 10 Day ☒
 3 Day ☐
 1 Day ☐
Comments:

SAMPLE ID	DATE	TIME	GRAB	COMP MATRIX	NUMBER OF CONTAINERS	PRODUCT CODE	Analyses Requested										MR PROJ. MGR. MKA	Shipping Carrier:	Turn Around Time:	Comments:
SB-9 9.5 ft	6/22/16	1110	X	Soil	140 mL VOA	8260B	X												10 Day <input checked="" type="checkbox"/>	
L					140 mL VOA														3 Day <input type="checkbox"/>	
SB-9 10.5 ft					140 mL VOA														1 Day <input type="checkbox"/>	
L					140 mL VOA															
SB-10 15.0 ft		1442			140 mL VOA		X													
L					140 mL VOA															
SB-10 16.5 ft					140 mL VOA		X													
L					140 mL VOA															
SB-10 21.5 ft					140 mL VOA		X													
L					140 mL VOA															
SB-11 19.0 ft		1554			140 mL VOA		X													
L					140 mL VOA															

RELINQUISHED BY: *Prin Ac*
DATE 6/22/16
TIME 1920
ACCEPTED BY: *Matthew Schmitt*
DATE 6/22/16
TIME 1820
LAB WORKORDER #: 1606425
Log In Time: 1350
Staff: Kd
Date: 6/23/16

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED:

DATE RECEIVED:

TIME RECEIVED:



1. CHECK ALL THAT APPLY: ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 38

4. WERE THE SAMPLES RECEIVED ON ICE? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMPERATURE: 5.8 °C BOTTLE(S) TEMPED: 58.11

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

11. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

12. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

13. WAS THE CLIENT CONTACTED? YES ☐ NO ☒

IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: Christina L. Moore

L60.30 A r0 Sample Receipt Form

For MR Use Only



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EPA Lab #PA00165

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PADEP #33-00258
EPA Lab #PA00155

21 September 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1609161

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 09/08/16 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-12 8.5'	1609161-01	Solid	Grab	09/07/16 09:57	09/08/16 15:10
SB-13 10'	1609161-02	Solid	Grab	09/07/16 12:15	09/08/16 15:10
SB-14 6'	1609161-03	Solid	Grab	09/08/16 08:37	09/08/16 15:10
SB-14 7'	1609161-04	Solid	Grab	09/08/16 08:37	09/08/16 15:10
SB-14 11'	1609161-05	Solid	Grab	09/08/16 08:37	09/08/16 15:10
SB-14 13'	1609161-06	Solid	Grab	09/08/16 08:37	09/08/16 15:10
SB-15 12.5'	1609161-07	Solid	Grab	09/07/16 09:06	09/08/16 15:10
SB-16 14.0'	1609161-08	Solid	Grab	09/07/16 08:46	09/08/16 15:10
SB-17 13'	1609161-09	Solid	Grab	09/07/16 08:18	09/08/16 15:10

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-12 8.5'

1609161-01 (Solid) Sampled: 09/07/16 09:57

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	87.9	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<228	228	27.3	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<228	228	23.9	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Benzene	<228	228	29.6	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Ethylbenzene	<228	228	23.9	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<228	228	19.3	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
MTBE	<228	228	28.4	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Naphthalene	<228	228	59.2	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Toluene	<228	228	26.2	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Xylene o	<228	228	37.6	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Xylene p/m	<455	455	60.3	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	
Xylenes, Total	<683	683	97.9	NA	µg/Kg dry	09/09/16 16:09	09/09/16 16:09	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		104 %		80-120		09/09/16 16:09	09/09/16 16:09	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		96.9 %		80-120		09/09/16 16:09	09/09/16 16:09	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.7 %		80-120		09/09/16 16:09	09/09/16 16:09	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		09/09/16 16:09	09/09/16 16:09	EPA 8260 B			

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-13 10'

1609161-02 (Solid) Sampled: 09/07/16 12:15

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	85.4	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	<234	234	28.1	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<234	234	24.6	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Benzene	<234	234	30.4	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Ethylbenzene	<234	234	24.6	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<234	234	19.9	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
MTBE	<234	234	29.3	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Naphthalene	<234	234	60.9	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Toluene	<234	234	26.9	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Xylene o	<234	234	38.6	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Xylene p/m	<468	468	62.1	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	
Xylenes, Total	<703	703	101	NA	µg/Kg dry	09/09/16 16:35	09/09/16 16:35	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		98.2 %		80-120		09/09/16 16:35	09/09/16 16:35	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		98.1 %		80-120		09/09/16 16:35	09/09/16 16:35	EPA 8260 B			
Surrogate: Dibromofluoromethane		95.6 %		80-120		09/09/16 16:35	09/09/16 16:35	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		09/09/16 16:35	09/09/16 16:35	EPA 8260 B			

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-14 6'

1609161-03 (Solid) Sampled: 09/08/16 08:37

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	87.5	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	D2
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<229	229	27.4	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<229	229	24.0	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Benzene	<229	229	29.7	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Ethylbenzene	<229	229	24.0	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<229	229	19.4	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
MTBE	<229	229	28.6	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Naphthalene	<229	229	59.4	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Toluene	<229	229	26.3	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Xylene o	<229	229	37.7	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Xylene p/m	<457	457	60.6	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	
Xylenes, Total	<686	686	98.3	NA	µg/Kg dry	09/09/16 17:01	09/09/16 17:01	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101 %		80-120		09/09/16 17:01	09/09/16 17:01	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		97.9 %		80-120		09/09/16 17:01	09/09/16 17:01	EPA 8260 B			
Surrogate: Dibromofluoromethane		99.3 %		80-120		09/09/16 17:01	09/09/16 17:01	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		09/09/16 17:01	09/09/16 17:01	EPA 8260 B			

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-14 7'

1609161-04 (Solid) Sampled: 09/08/16 08:37

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	88.6	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	<226	226	27.1	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<226	226	23.7	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Benzene	<226	226	29.4	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Ethylbenzene	<226	226	23.7	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<226	226	19.2	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
MTBE	<226	226	28.2	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Naphthalene	<226	226	58.7	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Toluene	<226	226	26.0	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Xylene o	<226	226	37.3	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Xylene p/m	<452	452	59.8	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	
Xylenes, Total	<677	677	97.1	NA	µg/Kg dry	09/09/16 17:28	09/09/16 17:28	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		99.5 %		80-120		09/09/16 17:28	09/09/16 17:28	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		97.4 %		80-120		09/09/16 17:28	09/09/16 17:28	EPA 8260 B			
Surrogate: Dibromofluoromethane		96.9 %		80-120		09/09/16 17:28	09/09/16 17:28	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		09/09/16 17:28	09/09/16 17:28	EPA 8260 B			

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5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-14 11'

1609161-05 (Solid) Sampled: 09/08/16 08:37

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	86.7	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<231	231	27.7	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<231	231	24.2	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Benzene	<231	231	30.0	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Ethylbenzene	<231	231	24.2	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<231	231	19.6	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
MTBE	<231	231	28.8	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Naphthalene	<231	231	60.0	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Toluene	<231	231	26.5	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Xylene o	<231	231	38.1	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Xylene p/m	<461	461	61.1	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	
Xylenes, Total	<692	692	99.2	NA	µg/Kg dry	09/09/16 17:54	09/09/16 17:54	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		107 %		80-120		09/09/16 17:54	09/09/16 17:54	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		98.1 %		80-120		09/09/16 17:54	09/09/16 17:54	EPA 8260 B			
Surrogate: Dibromofluoromethane		97.7 %		80-120		09/09/16 17:54	09/09/16 17:54	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		09/09/16 17:54	09/09/16 17:54	EPA 8260 B			

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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-14 13'

1609161-06 (Solid) Sampled: 09/08/16 08:37

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	74.5	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

O1

1,2,4-Trimethylbenzene	<268	268	32.2	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<268	268	28.2	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Benzene	<268	268	34.9	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Ethylbenzene	<268	268	28.2	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<268	268	22.8	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
MTBE	<268	268	33.5	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Naphthalene	<268	268	69.8	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Toluene	<268	268	30.9	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Xylene o	<268	268	44.3	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Xylene p/m	<537	537	71.1	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	
Xylenes, Total	<805	805	115	NA	µg/Kg dry	09/09/16 18:20	09/09/16 18:20	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		97.9 %		80-120		09/09/16 18:20	09/09/16 18:20	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		96.1 %		80-120		09/09/16 18:20	09/09/16 18:20	EPA 8260 B			
Surrogate: Dibromofluoromethane		95.2 %		80-120		09/09/16 18:20	09/09/16 18:20	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		09/09/16 18:20	09/09/16 18:20	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-15 12.5'

1609161-07 (Solid) Sampled: 09/07/16 09:06

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	85.7	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<233	233	28.0	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<233	233	24.5	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Benzene	<233	233	30.3	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Ethylbenzene	<233	233	24.5	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<233	233	19.8	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
MTBE	<233	233	29.2	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Naphthalene	<233	233	60.7	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Toluene	<233	233	26.8	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Xylene o	<233	233	38.5	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Xylene p/m	<467	467	61.8	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	
Xylenes, Total	<700	700	100	NA	µg/Kg dry	09/09/16 18:46	09/09/16 18:46	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		98.0 %		80-120		09/09/16 18:46	09/09/16 18:46	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		97.1 %		80-120		09/09/16 18:46	09/09/16 18:46	EPA 8260 B			
Surrogate: Dibromofluoromethane		93.6 %		80-120		09/09/16 18:46	09/09/16 18:46	EPA 8260 B			
Surrogate: Toluene-d8		101 %		80-120		09/09/16 18:46	09/09/16 18:46	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-16 14.0'

1609161-08 (Solid) Sampled: 09/07/16 08:46

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	84.2	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<238	238	28.5	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<238	238	25.0	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Benzene	<238	238	30.9	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Ethylbenzene	<238	238	25.0	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<238	238	20.2	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
MTBE	<238	238	29.7	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Naphthalene	<238	238	61.8	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Toluene	<238	238	27.3	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Xylene o	<238	238	39.2	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Xylene p/m	<475	475	63.0	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	
Xylenes, Total	<713	713	102	NA	µg/Kg dry	09/09/16 19:12	09/09/16 19:12	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		100 %		80-120		09/09/16 19:12	09/09/16 19:12	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		96.2 %		80-120		09/09/16 19:12	09/09/16 19:12	EPA 8260 B			
Surrogate: Dibromofluoromethane		95.1 %		80-120		09/09/16 19:12	09/09/16 19:12	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		09/09/16 19:12	09/09/16 19:12	EPA 8260 B			

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

SB-17 13'

1609161-09 (Solid) Sampled: 09/07/16 08:18

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Total Solids	84.1	1.00	0.0500	NA	wt%	09/14/16 17:00	09/14/16 17:00	SM 2540 G-97	A	CML	
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Volatile Organic Compounds by GC/MS

01

1,2,4-Trimethylbenzene	<238	238	28.5	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<238	238	25.0	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Benzene	<238	238	30.9	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Ethylbenzene	<238	238	25.0	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<238	238	20.2	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
MTBE	<238	238	29.7	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Naphthalene	<238	238	61.8	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Toluene	<238	238	27.3	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Xylene o	<238	238	39.2	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Xylene p/m	<476	476	63.0	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	
Xylenes, Total	<713	713	102	NA	µg/Kg dry	09/09/16 19:38	09/09/16 19:38	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %		80-120		09/09/16 19:38	09/09/16 19:38	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		97.7 %		80-120		09/09/16 19:38	09/09/16 19:38	EPA 8260 B			
Surrogate: Dibromofluoromethane		97.8 %		80-120		09/09/16 19:38	09/09/16 19:38	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		09/09/16 19:38	09/09/16 19:38	EPA 8260 B			

Mountain Research, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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814.371.6030 Phone
814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609161
Reported:
09/21/16 14:44

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	09/30/2016
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2016

Notes and Definitions

O1	The VOC vial contained an amount of soil outside the EPA recommendation.
D2	The Relative Percent Difference between 1609161-03 and its duplicate did not meet laboratory acceptance criteria.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager



MOUNTAIN RESEARCH LLC

325 25th Street, Altoona, PA 16601
(814) 949-2034 (800)

110 McCracken Run Road, Dubois, PA 15801
(814) 371-6030 Fax (814) 371-6031

CHAIN OF CUSTODY RECORD

Vennard's										BA		Analyses Requested										MIR PROJ. MGR. MK					
NOTES: Received On Ice <u>0540C</u> Sample Temp _____ FW STD # _____ Seaf Tr Tack <u>Y / N</u> Other _____ Comments _____																										Shipping Carrier: _____ Turn Around Time: 10 Day <u>X</u> 3 Day _____ 1 Day _____ Comments: _____	
SAMPLE ID NO.		DATE		TIME		GRAB		COMP		MATRIX		NUMBER OF CONTAINERS		PRODUCT CODE		8260B		% Solid		Preserve		LAB NUMBER					
SB-12 9.5'		9/7/2016		0957		X				Soil		1 40ml Voa		2A, 4A		X				MEOH		01					
SB-12 8.5'		9/7/2016		0957		X				Soil		1 4 Oz Jar		2A, 4A				X		NONE		02					
SB-13 10'		9/7/2016		1215		X				Soil		1 40ml Voa		2A, 4A		X				MEOH		03					
SB-13 10'		9/7/2016		1215		X				Soil		1 4 Oz Jar		2A, 4A				X		NONE		04					
SB-14 6'		9/8/2016		0837		X				Soil		1 40ml Voa		2A, 4A		X				MEOH		05					
SB-14 6'		9/8/2016		1		X				Soil		1 4 Oz Jar		2A, 4A				X		NONE		06					
SB-14 7'		9/8/2016				X				Soil		1 40ml Voa		2A, 4A		X				MEOH		07					
SB-14 7'		9/8/2016				X				Soil		1 4 Oz Jar		2A, 4A				X		NONE		08					
SB-14 10'		9/8/2016				X				Soil		1 40ml Voa		2A, 4A		X				MEOH		09					
SB-14 10'		9/8/2016				X				Soil		1 4 Oz Jar		2A, 4A				X		NONE		10					
SB-14 13'		9/8/2016				X				Soil		1 40ml Voa		2A, 4A		X				MEOH		11					
SB-14 13'		9/8/2016				X				Soil		1 4 Oz Jar		2A, 4A				X		NONE		12					
SB-14 13'		9/8/2016				X				Soil		1 40ml Voa		2A, 4A		X				MEOH		13					
SB-14 13'		9/8/2016				X				Soil		1 4 Oz Jar		2A, 4A				X		NONE		14					
RELINQUISHED BY:		DATE		TIME		ACCEPTED BY:		TIME		DATE		TIME		Lab WO #:		Log In Time:		DATE		Staff:		Date:					
<u>B - An</u>		9/9/16		1510		<u>ADL</u>		1510		9/8/15		1510		1609161		9/8/15		1510		1609161		9/8/16					
RELINQUISHED BY:		DATE		TIME		ACCEPTED BY:		TIME		DATE		TIME		Lab WO #:		Log In Time:		DATE		Staff:		Date:					

White - Lab; Blue - File; Yellow - Project Manager; Pink - Staff

C:\Users\bazar\Desktop\COC

BALL POINT PEN ONLY										00001													
Billing Group:		Phase:		PROJECT NAME		MOUNTAIN RESEARCH LLC																	
Drilling <td colspan="2">Vennards <td colspan="2"> <td colspan="10">(814) 949-2034 (800) 837-4674 FAX (814) 949-9591</td> </td></td>		Vennards <td colspan="2"> <td colspan="10">(814) 949-2034 (800) 837-4674 FAX (814) 949-9591</td> </td>		<td colspan="10">(814) 949-2034 (800) 837-4674 FAX (814) 949-9591</td>		(814) 949-2034 (800) 837-4674 FAX (814) 949-9591																	
MR Project #		SITE LOCATION				110 McCracken Run Road, Dubois, PA 15801																	
4644-15 01 <td colspan="2">Indiana, PA <td colspan="2"> <td colspan="10">(814) 371-6030 Fax (814) 375-0823</td> </td></td>		Indiana, PA <td colspan="2"> <td colspan="10">(814) 371-6030 Fax (814) 375-0823</td> </td>		<td colspan="10">(814) 371-6030 Fax (814) 375-0823</td>		(814) 371-6030 Fax (814) 375-0823																	
CLIENT				Vennard's		SAMPLER(S)		BA		CHAIN OF CUSTODY RECORD													
SAMPLE ID. NO.		DATE		TIME		GRAB		COMP		MATRIX		NUMBER OF CONTAINERS		PRODUCT CODE		8260B		% Solid		Analyses Requested		MR PROJ. MGR. MK	
SB-15		9/7/2016		0906		X				Soil		1 40ml Voa		2A, 4A		X						Shipping Carrier:	
SB-15		9/7/2016		0906		X				Soil		1 4 Oz Jar		2A, 4A				X				Turn Around Time:	
SB-16		9/7/2016		0846		X				Soil		1 40ml Voa		2A, 4A		X						10 Day <input checked="" type="checkbox"/> X	
SB-16		9/7/2016		0846		X				Soil		1 4 Oz Jar		2A, 4A				X				3 Day <input type="checkbox"/>	
SB-17		9/7/2016		0818		X				Soil		1 40ml Voa		2A, 4A		X						1 Day <input type="checkbox"/>	
SB-17		9/7/2016		0818		X				Soil		1 4 Oz Jar		2A, 4A		X						Comments:	

WORK ORDER
CLIENT: Vennards new client
DATE SAMPLED: 9/7/16 DATE RECEIVED: 9/8/16 TIME RECEIVED: 12:10



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 18

4. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ NA

5. WERE THE SAMPLES RECEIVED ON ICE? YES ☒ NO ☐

IF NO, EXPLAIN: _____

6. RECEIVING TEMPERATURE: 5.4 °C BOTTLE(S) TEMPED: _____

7. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: [Signature]

L60.30 A r1 Sample Receipt Form For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

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(304) 930-1972
Fax (304) 930-1975

11 May 2018

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 8040782

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 04/26/18 08:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8040782
Reported:
05/11/18 15:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SB-18 (5.0' U)	8040782-01	Solid	Grab	04/25/18 11:45	04/26/18 08:20
SB-18 (6.5' U)	8040782-02	Solid	Grab	04/25/18 11:45	04/26/18 08:20

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager



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(304) 930-1972
Fax (304) 930-1975

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8040782
Reported:
05/11/18 15:21

SB-18 (5.0' U)

8040782-01 (Solid) Sampled: 04/25/18 11:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
---------	--------	----	-------	----------	----------	-------------	--------	-----	---------	-------

Mountain Research, LLC

General Chemistry

Total Solids	84.1	1.00	wt%	05/02/18 16:30	05/02/18 16:30		SM(22) 2540 G-1997	A	STG	
--------------	------	------	-----	----------------	----------------	--	-----------------------	---	-----	--

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	5760	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	1720	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Benzene	1460	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Ethylbenzene	1750	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	297	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
MTBE	<238	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Naphthalene	878	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Toluene	3930	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Xylene o	3200	238	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Xylene p/m	7770	475	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	
Xylenes, Total	11000	713	µg/Kg dry	04/27/18 00:42	04/27/18 00:42	EPA 5035	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	97.8 %	80-120		04/27/18 00:42	04/27/18 00:42	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %	80-120		04/27/18 00:42	04/27/18 00:42	EPA 8260 B				
Surrogate: Dibromofluoromethane	94.0 %	80-120		04/27/18 00:42	04/27/18 00:42	EPA 8260 B				
Surrogate: Toluene-d8	98.1 %	80-120		04/27/18 00:42	04/27/18 00:42	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Fax (304) 930-1975

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8040782
Reported:
05/11/18 15:21

SB-18 (6.5' U)

8040782-02 (Solid) Sampled: 04/25/18 11:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
---------	--------	----	-------	----------	----------	-------------	--------	-----	---------	-------

Mountain Research, LLC

General Chemistry

Total Solids	84.3	1.00	wt%	05/02/18 16:30	05/02/18 16:30		SM(22) 2540 G-1997	A	STG	
--------------	------	------	-----	----------------	----------------	--	-----------------------	---	-----	--

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	22400	2370	µg/Kg dry	04/27/18 01:08	04/30/18 18:09	EPA 5035	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	6670	237	µg/Kg dry	04/27/18 01:08	04/27/18 01:08	EPA 5035	EPA 8260 B	A	JMG	
Benzene	3000	237	µg/Kg dry	04/27/18 01:08	04/27/18 01:08	EPA 5035	EPA 8260 B	A	JMG	
Ethylbenzene	7070	237	µg/Kg dry	04/27/18 01:08	04/27/18 01:08	EPA 5035	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	1250	237	µg/Kg dry	04/27/18 01:08	04/27/18 01:08	EPA 5035	EPA 8260 B	A	JMG	
MTBE	<237	237	µg/Kg dry	04/27/18 01:08	04/27/18 01:08	EPA 5035	EPA 8260 B	A	JMG	
Naphthalene	2550	237	µg/Kg dry	04/27/18 01:08	04/27/18 01:08	EPA 5035	EPA 8260 B	A	JMG	
Toluene	18000	2370	µg/Kg dry	04/27/18 01:08	04/30/18 18:09	EPA 5035	EPA 8260 B	A	JMG	D1
Xylene o	13800	2370	µg/Kg dry	04/27/18 01:08	04/30/18 18:09	EPA 5035	EPA 8260 B	A	JMG	D1
Xylene p/m	35200	4740	µg/Kg dry	04/27/18 01:08	04/30/18 18:09	EPA 5035	EPA 8260 B	A	JMG	D1
Xylenes, Total	49100	7110	µg/Kg dry	04/27/18 01:08	04/30/18 18:09	EPA 5035	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4		93.2 %	80-120	04/27/18 01:08	04/27/18 01:08	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		104 %	80-120	04/27/18 01:08	04/27/18 01:08	EPA 8260 B				
Surrogate: Dibromofluoromethane		91.2 %	80-120	04/27/18 01:08	04/27/18 01:08	EPA 8260 B				
Surrogate: Toluene-d8		95.8 %	80-120	04/27/18 01:08	04/27/18 01:08	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8040782
Reported:
05/11/18 15:21

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED:

DATE RECEIVED:

TIME RECEIVED:



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 10

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMP: 3.4 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: _____

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☐ N/A ☒

9. WAS THE COC FILLED OUT PROPERLY? YES ☐ NO ☒

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: [Signature]

L60.30.A r2 Sample Receipt Form

For MR Use Only

Page 7 of 7

APPENDIX K

LABORATORY DATA SHEETS – GEOTECHNICAL

SPECIFIC GRAVITY OF SOILS - ASTM D854 (B)

Client Mountain Research, LLC
 Client Project 22013
 Project No. 37530

Lab Sample No.	Boring	Depth	Sample	Replicate No.	Material Used	Passing #4 Sieve %	Pycnometer Id.	Pre-Test Pycnometer Check Weight gm	Weight Pycnometer + Soil + Water gm	Test Temp. °C	Tare No.	Weight Tare		Weight Dry Soil gm	Test Water Density gm/ml	Weight Pycnometer + Water at Test Temp gm	Average Calibrated Pycnometer Dry Weight gm	Average Calibrated Volume of Pycnometer ml	Specific Gravity of Soil at Test Temp g/cc	Conversion Factor For Temp	Specific Gravity of Soil at 20°C g/cc
					Sieve	%		Mp	Mpwst	Tt				Mds	Pwt	Mpwst	Mp	Vp	Gt	Tb-K	G20°C
TEST PARAMETERS																					
37530001	NA	6/24/2016	NA	1	- #4	NA	W	193.17	722.51	22.5	1001	241.98	191.99	49.99	0.9977	691.32	193.13	499.35	2.658	0.9994	2.66
37530001	NA	6/24/2016	NA	2	- #4	NA	D	163.45	693.86	22.5	1003	242.52	190.93	51.59	0.9977	661.99	163.41	499.75	2.616	0.9994	2.61
																			SPECIFIC GRAVITY		
																			Average =		
																			2.64		

Input Validation: tmp

Reviewed By: SVG
 COPYRIGHT © 2014 GEOTECHNICAL TESTING SERVICES 1-800-853-7309

Date: 6/29/2016

PARTICLE-SIZE ANALYSIS OF SOILS - ASTM D422

Client Mountain Research, LLC
 Client Project 22013
 Project No. 37530

Boring NA
 Depth 6-24-16
 Sample NA
 Lab Sample 37530001

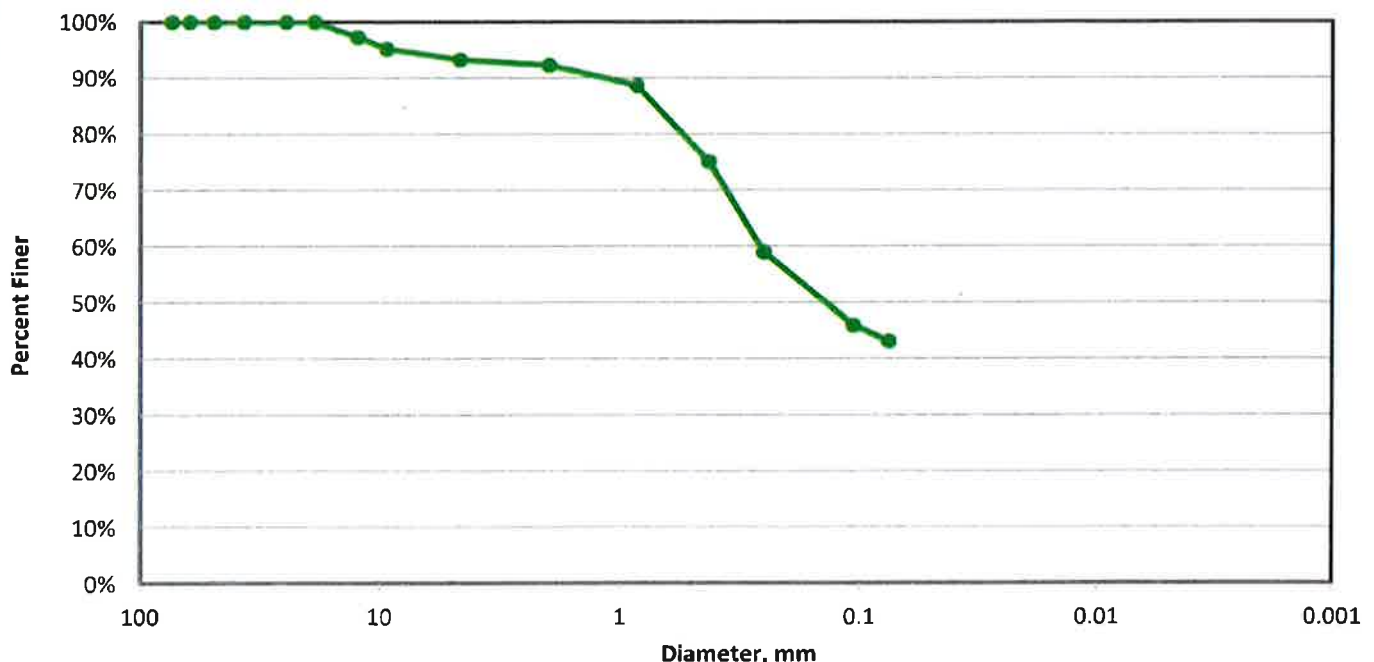
Sample Color: **YELLOWISH BROWN**
 USCS Group Name: **CLAYEY SAND**
 USCS Group Symbol: **SC**

USDA: **NA**

AASHTO: **A-4 (0)**

MECHANICAL SIEVE						Project Specifications
Total Sample	Sieve Size	Nominal Opening, mm	Dry Wt, gm	Split % Retained	Normalized % Finer	
Total Sample Wet Wt, gm (-3") 781	3"	75	0	0.0%	100.0%	
Sample Split on Sieve No. 4	2-1/2"	63	0	0.0%	100.0%	
Coarse Washed Dry Sample, gm 48	2"	50	0	0.0%	100.0%	
Wet Wt Passing Split, gm 733	1-1/2"	37.5	0	0.0%	100.0%	
Dry Wt. Passing Split, gm 655	1"	25	0	0.0%	100.0%	
Total Sample Dry Wt, gm 703	3/4"	19	0	0.0%	100.0%	
Split Sample - Passing No. 4				1/2"	12.5	19.44
Tare No. 2070	3/8"	9.5	14.61	2.8%	97.2%	
Tare + WS., gm 400.53	No. 4	4.75	13.63	2.1%	95.2%	
Tare + DS., gm 374.19	No. 10	2	2.29	1.9%	93.2%	
Tare, gm 153.05	No. 20	0.85	8.59	1.0%	92.2%	
Water Content of Split Sample 11.9%	No. 40	0.425	32.02	3.6%	88.6%	
Wt. of DS., gm 221.14	No. 60	0.25	38.4	13.5%	75.1%	
Wt. of +#200 Sample, gm 119.04	No. 140	0.106	31.04	16.2%	58.9%	
	No. 200	0.075	6.7	13.1%	45.9%	
				2.8%	43.0%	

USCS SOIL CLASSIFICATION				USCS Description			
Corrected For 100% Passing a 3" Sieve				CLAYEY SAND			
% Gravel (-3" & +#4) 6.8	Silt=NA	Clay=NA		USCS Group Symbol	Atterberg Limits Group Symbol		
Coarse=0; Fine=6.8	D60, mm	NA		SC	CL - LEAN CLAY		
% Sand (-#4 & +#200) 50.2	D30, mm	NA		Auxiliary Information	Wt Ret, gm	% Retained	% Finer
Coarse=1; Medium=17.1; Fine=32.1	D10, mm	NA		12" Sieve - 300 mm	0	0.0	100.0
% Fines (-#200) 43.0	Cc	NA		6" Sieve - 150 mm	0	0.0	100.0
% Plus #200 (-3") 57.0	Cu	NA		3" Sieve - 75 mm	0	0.0	100.0



Input Validation

tmp

Reviewed By: SVG

Date Tested

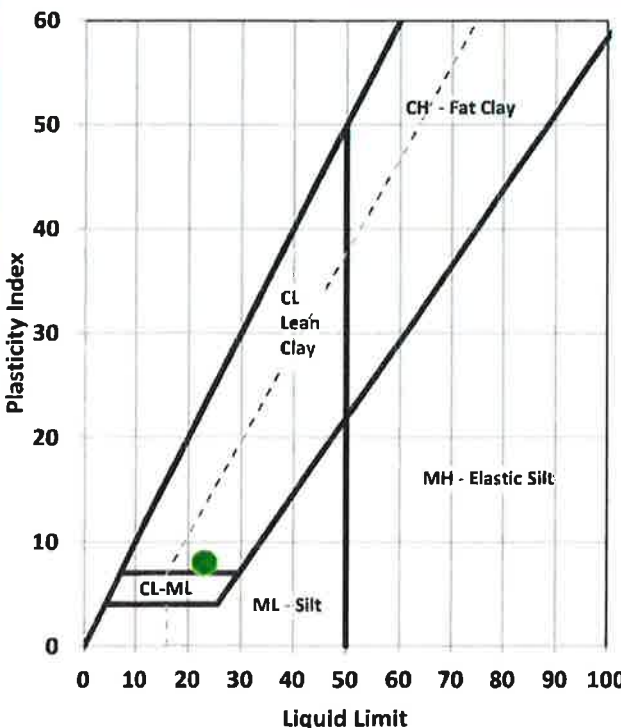
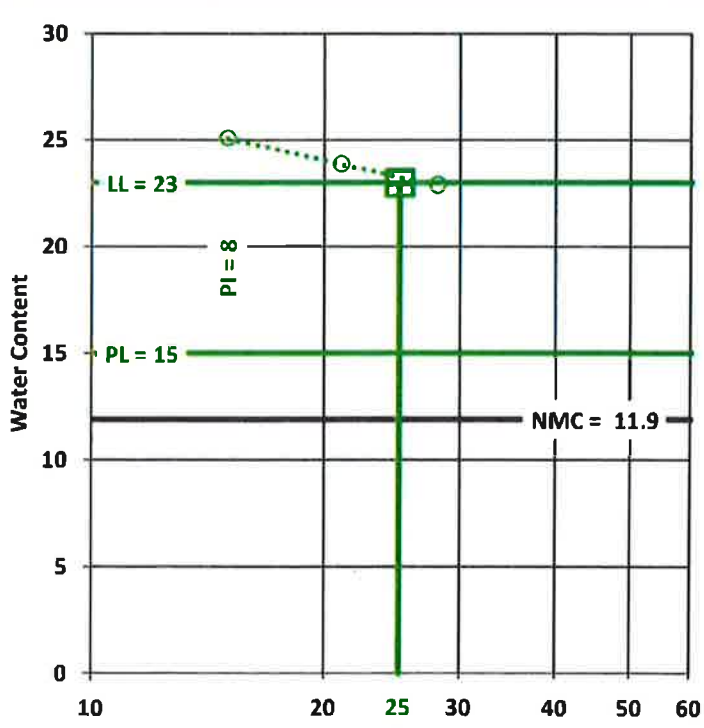
6/29/2019

LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX OF SOILS
ASTM D 4318

Client Mountain Research, LLC
 Client Project 22013
 Project No. 37530

Boring NA
 Depth 6-24-16
 Sample NA
 Lab Sample 37530001

Soil Description: YELLOWISH BROWN LEAN CLAY
 (-#40 Fraction)

AS-RECEIVED W.C.		SAMPLE SUMMARY	
Tare Number	2070	Liquidity Index = -.39	
Wt. Tare & WS, gm	400.53	Liquid Limit (LL), %	23
Wt. Tare & DS, gm	374.19	Plastic Limit (PL), %	15
Wt. Tare, gm	153.05	Plasticity Index (PI)	8
Water Content, %	11.9	USCS Group Symbol (-#40 Fraction)	CL
		USCS Group Name (-#40 Fraction)	LEAN CLAY
		Sample Color:	YELLOWISH BROWN
PLASTIC LIMIT		LIQUID LIMIT	
Points Run	3 Points		3 Points
Tare Number	243 218 265		221 208 225
Wt. Tare & WS, gm	22.59 22.34 22.92		23.94 24.94 24.57
Wt. Tare & DS, gm	21.77 21.53 22.05		22.40 23.28 23.03
Wt. Tare, gm	16.12 16.13 16.22		16.27 16.34 16.31
Water Content, %	14.5 15.0 14.9		25.1 23.9 22.9
		# of Blows	15 21 28
PLASTICITY CHART		FLOW CURVE	
			

Input Validation: Yes

Reviewed By: SVG

Date Tested: 6/29/2019

Client	Mountain Research, LLC
Project	22013
Project No.	37530

Input Validation: tmp
Reviewed By: SVG
Date: 6/29/2016



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PADEP #33-00258
EPA Lab #PA00155**

13 July 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1606427

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 06/22/16 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606427
Reported:
07/13/16 10:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
FOC	1606427-01	Soil	Grab	06/22/16 08:15	06/22/16 18:20

Mountain Research, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Stephen Gampe, Assistant Laboratory Manager

Page 2 of 6



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606427
Reported:
07/13/16 10:17

FOC

1606427-01 (Soil) Sampled: 06/22/16 08:15

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
---------	--------	-----	-----	---------------------	-------	----------	----------	--------	-----	---------	-------

Mountain Research, LLC

General Chemistry by Standard/EPA/ASTM Methods

Organic Matter	2.42	0.100	NA	NA	%	07/05/16 15:00	07/05/16 15:00	ASTM D2974-00C	A	CML	D2
----------------	------	-------	----	----	---	----------------	----------------	-------------------	---	-----	----

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1606427
Reported:
07/13/16 10:17

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2016
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2016

Notes and Definitions

D2	The Relative Percent Difference between 1606427-01 and its duplicate did not meet laboratory acceptance criteria.
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

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Stephen Gampe, Assistant Laboratory Manager

Page 4 of 6

Drilling Vernard's
MR Project # 4644.15.01
SITE LOCATION Indiana, PA
CLIENT Vernard's
SAMPLER(S) BA

Received On Ice: ☒ / N
Sample Temp: 5.8
PWSID #

Comments

825 25th Street, Altoona, PA 16601
110 McCracken Run Road, Dubois, PA 15801

MOUNTAIN RESEARCH

CHAIN OF CUSTODY RE

Analyses Requested

NUMBER OF CONTAINERS

PRODUCT CODE

X FOC

13oz Jar

SAMPLE ID DATE TIME GRAB COMP MATRIX
FOC 5/22/16 0815 X Soil

Preserve None
LAB NUMBER 01

Turn Around Time:
10 Day X
3 Day
1 Day

Comments:

MR PROJ. MGR. MK
Shipping Carrier

7-4674 FAX (814) 949-9591
4) 375-0823

RELINQUISHED BY: Rein Ar

DATE 5/22/16 1820

TIME ACCEPTED BY: [Signature]

RELINQUISHED BY:

DATE

TIME ACCEPTED BY:

DATE/TIME

Lab Workorder #:

1606427

Log In Time:

1424

Staff:

KC

1.

Date: 6/23/16

WORK ORDER:

CLIENT: Vennards

14006427

DATE SAMPLED: 6/22/16 DATE RECEIVED: 6/22/16 TIME RECEIVED: 1820



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 1

4. WERE THE SAMPLES RECEIVED ON ICE? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMPERATURE: 5.8 °C BOTTLE(S) TEMPED: FOC

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☒ cml 6/22/16

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

11. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

12. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

13. WAS THE CLIENT CONTACTED? YES ☐ NO ☒

IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: Christina May

L60.30 A r0 Sample Receipt Form

For MR Use Only

APPENDIX L

LABORATORY DATA SHEETS – GROUNDWATER



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PADEP #33-00258
EPA Lab #PA00155

04 August 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1607505

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 07/27/16 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1607505
Reported:
08/04/16 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1607505-01	Aqueous	Grab	07/26/16 14:50	07/27/16 13:30
Stream	1607505-02	Aqueous	Grab	07/27/16 11:10	07/27/16 13:30
MW-1	1607505-03	Aqueous	Grab	07/27/16 10:46	07/27/16 13:30
MW-2	1607505-04	Aqueous	Grab	07/27/16 11:15	07/27/16 13:30
MW-3	1607505-05	Aqueous	Grab	07/27/16 09:55	07/27/16 13:30
MW-4	1607505-06	Aqueous	Grab	07/27/16 11:21	07/27/16 13:30

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1607505
Reported: 08/04/16 16:53

Trip Blank

1607505-01 (Aqueous) Sampled: 07/26/16 14:50

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Benzene	<2.00	2.00	0.260	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
MTBE	<2.00	2.00	0.123	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Toluene	<2.00	2.00	0.230	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/02/16 02:17	08/02/16 02:17	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %		80-120		08/02/16 02:17	08/02/16 02:17	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		92.8 %		80-120		08/02/16 02:17	08/02/16 02:17	EPA 8260 B			
Surrogate: Dibromofluoromethane		108 %		80-120		08/02/16 02:17	08/02/16 02:17	EPA 8260 B			
Surrogate: Toluene-d8		104 %		80-120		08/02/16 02:17	08/02/16 02:17	EPA 8260 B			

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1607505
Reported:
08/04/16 16:53

Stream

1607505-02 (Aqueous) Sampled: 07/27/16 11:10

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Benzene	<2.00	2.00	0.260	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
MTBE	<2.00	2.00	0.123	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Toluene	<2.00	2.00	0.230	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	07/29/16 20:38	07/29/16 20:38	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4		100 %		80-120		07/29/16 20:38	07/29/16 20:38	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		94.2 %		80-120		07/29/16 20:38	07/29/16 20:38	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.7 %		80-120		07/29/16 20:38	07/29/16 20:38	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		07/29/16 20:38	07/29/16 20:38	EPA 8260 B			

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Vennard Crossroads Convenience, Inc
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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1607505
Reported:
08/04/16 16:53

MW-1

1607505-03 (Aqueous) Sampled: 07/27/16 10:46

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Benzene	<2.00	2.00	0.260	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
MTBE	<2.00	2.00	0.123	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Toluene	<2.00	2.00	0.230	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/02/16 02:43	08/02/16 02:43	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4		104 %		80-120		08/02/16 02:43	08/02/16 02:43	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		91.4 %		80-120		08/02/16 02:43	08/02/16 02:43	EPA 8260 B			
Surrogate: Dibromofluoromethane		108 %		80-120		08/02/16 02:43	08/02/16 02:43	EPA 8260 B			
Surrogate: Toluene-d8		104 %		80-120		08/02/16 02:43	08/02/16 02:43	EPA 8260 B			

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1607505
Reported:
08/04/16 16:53

MW-2

1607505-04 (Aqueous) Sampled: 07/27/16 11:15

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Benzene	<2.00	2.00	0.260	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
MTBE	9.77	2.00	0.123	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Toluene	<2.00	2.00	0.230	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/02/16 03:09	08/02/16 03:09	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %		80-120		08/02/16 03:09	08/02/16 03:09	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		93.2 %		80-120		08/02/16 03:09	08/02/16 03:09	EPA 8260 B			
Surrogate: Dibromofluoromethane		104 %		80-120		08/02/16 03:09	08/02/16 03:09	EPA 8260 B			
Surrogate: Toluene-d8		104 %		80-120		08/02/16 03:09	08/02/16 03:09	EPA 8260 B			

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Stephen Gampe, Assistant Laboratory Manager

Page 6 of 11



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1607505
Reported: 08/04/16 16:53

MW-3

1607505-05 (Aqueous) Sampled: 07/27/16 09:55

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Benzene	<2.00	2.00	0.260	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
MTBE	4.76	2.00	0.123	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Toluene	<2.00	2.00	0.230	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/02/16 03:35	08/02/16 03:35	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %		80-120		08/02/16 03:35	08/02/16 03:35	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		93.2 %		80-120		08/02/16 03:35	08/02/16 03:35	EPA 8260 B			
Surrogate: Dibromofluoromethane		102 %		80-120		08/02/16 03:35	08/02/16 03:35	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		08/02/16 03:35	08/02/16 03:35	EPA 8260 B			

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Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1607505
Reported:
08/04/16 16:53

MW-4

1607505-06 (Aqueous) Sampled: 07/27/16 11:21

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Benzene	28.7	2.00	0.260	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Ethylbenzene	5.20	2.00	0.210	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
MTBE	22.2	2.00	0.123	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Toluene	17.7	2.00	0.230	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Xylene o	8.48	2.00	0.330	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Xylene p/m	12.7	4.00	0.530	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	
Xylenes, Total	21.1	6.00	NA	NA	µg/L	08/02/16 04:01	08/02/16 04:01	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4		99.4 %		80-120		08/02/16 04:01	08/02/16 04:01	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		94.9 %		80-120		08/02/16 04:01	08/02/16 04:01	EPA 8260 B			
Surrogate: Dibromofluoromethane		102 %		80-120		08/02/16 04:01	08/02/16 04:01	EPA 8260 B			
Surrogate: Toluene-d8		105 %		80-120		08/02/16 04:01	08/02/16 04:01	EPA 8260 B			

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Vennard Crossroads Convenience, Inc 5190 White Oak Dr Indiana PA, 15701	Project Name: Indiana, PA Project Number: 4644.15.01 Lab Project Manager: Stephen Gampe	Lab ID#: 1607505 Reported: 08/04/16 16:53
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Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	09/30/2016
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2016

Notes and Definitions

CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

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Page 9 of 11

[illegible]Page 10 of 11

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED:

DATE RECEIVED:

TIME RECEIVED:

1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 124. WERE THE SAMPLES RECEIVED ON ICE? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMPERATURE: 4.0 °C BOTTLE(S) TEMPED: _____6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

11. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

12. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

13. WAS THE CLIENT CONTACTED? YES ☐ NO ☒

IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: _____

L60.30 A r0 Sample Receipt Form

For MR Use Only



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PADEP #33-00258
EPA Lab #PA00155

29 August 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1608400

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 08/18/16 13:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1608400
Reported:
08/29/16 10:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1608400-01	Aqueous	Grab	08/17/16 22:00	08/18/16 13:41
MW-1	1608400-02	Aqueous	Grab	08/18/16 10:30	08/18/16 13:41
MW-2	1608400-03	Aqueous	Grab	08/18/16 10:20	08/18/16 13:41
MW-3	1608400-04	Aqueous	Grab	08/18/16 09:23	08/18/16 13:41
MW-4	1608400-05	Aqueous	Grab	08/18/16 10:37	08/18/16 13:41
Stream Point	1608400-06	Aqueous	Grab	08/18/16 09:33	08/18/16 13:41

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1608400
Reported: 08/29/16 10:25

Trip Blank

1608400-01 (Aqueous) Sampled: 08/17/16 22:00

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	0.260	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	0.123	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	C, L
Toluene	<2.00	2.00	0.230	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/18/16 23:43	08/18/16 23:43	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		100 %		80-120		08/18/16 23:43	08/18/16 23:43	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		08/18/16 23:43	08/18/16 23:43	EPA 8260 B			
Surrogate: Dibromofluoromethane		99.2 %		80-120		08/18/16 23:43	08/18/16 23:43	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		08/18/16 23:43	08/18/16 23:43	EPA 8260 B			

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Vennard Crossroads Convenience, Inc 5190 White Oak Dr Indiana PA, 15701	Project Name: Indiana, PA Project Number: 4644.15.01 Lab Project Manager: Stephen Gampe	Lab ID#: 1608400 Reported: 08/29/16 10:25
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MW-1

1608400-02 (Aqueous) Sampled: 08/18/16 10:30

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	Na
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	Na
Benzene	<2.00	2.00	0.260	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	0.123	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	C, L, N
Toluene	<2.00	2.00	0.230	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/18/16 16:43	08/18/16 16:43	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %		80-120		08/18/16 16:43	08/18/16 16:43	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		101 %		80-120		08/18/16 16:43	08/18/16 16:43	EPA 8260 B			
Surrogate: Dibromofluoromethane		95.2 %		80-120		08/18/16 16:43	08/18/16 16:43	EPA 8260 B			
Surrogate: Toluene-d8		102 %		80-120		08/18/16 16:43	08/18/16 16:43	EPA 8260 B			

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1608400
Reported:
08/29/16 10:25

MW-2

1608400-03 (Aqueous) Sampled: 08/18/16 10:20

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
Benzene	2.86	2.00	0.260	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
MTBE	11.3	2.00	0.123	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	C, L
Toluene	<2.00	2.00	0.230	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/19/16 00:09	08/19/16 00:09	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		99.1 %		80-120		08/19/16 00:09	08/19/16 00:09	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		100 %		80-120		08/19/16 00:09	08/19/16 00:09	EPA 8260 B			
Surrogate: Dibromofluoromethane		101 %		80-120		08/19/16 00:09	08/19/16 00:09	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		08/19/16 00:09	08/19/16 00:09	EPA 8260 B			

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

Page 5 of 11



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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1608400
Reported:
08/29/16 10:25

MW-3

1608400-04 (Aqueous) Sampled: 08/18/16 09:23

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	0.260	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
MTBE	6.35	2.00	0.123	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	Na
Toluene	<2.00	2.00	0.230	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/19/16 15:47	08/19/16 15:47	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		99.0 %		80-120		08/19/16 15:47	08/19/16 15:47	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		99.8 %		80-120		08/19/16 15:47	08/19/16 15:47	EPA 8260 B			
Surrogate: Dibromofluoromethane		98.0 %		80-120		08/19/16 15:47	08/19/16 15:47	EPA 8260 B			
Surrogate: Toluene-d8		104 %		80-120		08/19/16 15:47	08/19/16 15:47	EPA 8260 B			

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1608400
Reported:
08/29/16 10:25

MW-4

1608400-05 (Aqueous) Sampled: 08/18/16 10:37

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Benzene	18.2	2.00	0.260	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
MTBE	18.0	2.00	0.123	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	0.230	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/20/16 04:00	08/20/16 04:00	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		98.5 %		80-120		08/20/16 04:00	08/20/16 04:00	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		99.2 %		80-120		08/20/16 04:00	08/20/16 04:00	EPA 8260 B			
Surrogate: Dibromofluoromethane		101 %		80-120		08/20/16 04:00	08/20/16 04:00	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		08/20/16 04:00	08/20/16 04:00	EPA 8260 B			

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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1608400
Reported: 08/29/16 10:25

Stream Point

1608400-06 (Aqueous) Sampled: 08/18/16 09:33

Analyte	Result	PQL	MDL	Regulatory Limit	Units	Prepared	Analyzed	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	0.240	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	0.260	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	0.210	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	0.170	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	0.123	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	2.00	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	0.230	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	0.330	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	0.530	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	NA	NA	µg/L	08/20/16 04:27	08/20/16 04:27	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		97.1 %		80-120		08/20/16 04:27	08/20/16 04:27	EPA 8260 B			
Surrogate: 4-Bromofluorobenzene		96.6 %		80-120		08/20/16 04:27	08/20/16 04:27	EPA 8260 B			
Surrogate: Dibromofluoromethane		103 %		80-120		08/20/16 04:27	08/20/16 04:27	EPA 8260 B			
Surrogate: Toluene-d8		103 %		80-120		08/20/16 04:27	08/20/16 04:27	EPA 8260 B			

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1608400
Reported:
08/29/16 10:25

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	09/30/2016
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2016

Notes and Definitions

Na	Matrix spike recovery was outside of the laboratory acceptance criteria.
N	Matrix spike and matrix duplicate spike recovery was outside of the laboratory acceptance criteria.
L	The laboratory control spike did not meet laboratory acceptance criteria.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
C	The associated analytical results may be biased high.
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

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Page 9 of 11

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT: Vennards

DATE SAMPLED: 8/18/16 DATE RECEIVED: 8/18/16 TIME RECEIVED: 1341



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 12

4. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒

5. WERE THE SAMPLES RECEIVED ON ICE? YES ☒ NO ☐

IF NO, EXPLAIN: _____

6. RECEIVING TEMPERATURE: 5.8 °C BOTTLE(S) TEMPED: MW4

7. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: Christina L. Loman

L60.30 A r1 Sample Receipt Form

For MR Use Only



MOUNTAIN RESEARCH, LLC

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PADEP #33-00258
EPA Lab #PA00155

03 October 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1609382

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 09/19/16 17:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609382
Reported:
10/03/16 16:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-5	1609382-01	Aqueous	Grab	09/19/16 15:49	09/19/16 17:20
MW-6	1609382-02	Aqueous	Grab	09/19/16 15:52	09/19/16 17:20
MW-7	1609382-03	Aqueous	Grab	09/19/16 16:25	09/19/16 17:20
MW-8	1609382-04	Aqueous	Grab	09/19/16 16:12	09/19/16 17:20
Trip Blank	1609382-05	Aqueous	Grab	09/19/16 06:20	09/19/16 17:20

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609382
Reported:
10/03/16 16:47

MW-5

1609382-01 (Aqueous) Sampled: 09/19/16 15:49

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/22/16 19:52	09/22/16 19:52	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	98.3 %		80-120	09/22/16 19:52	09/22/16 19:52	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.9 %		80-120	09/22/16 19:52	09/22/16 19:52	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	09/22/16 19:52	09/22/16 19:52	EPA 8260 B				
Surrogate: Toluene-d8	104 %		80-120	09/22/16 19:52	09/22/16 19:52	EPA 8260 B				

Mountain Research, LLC

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1609382
Reported: 10/03/16 16:47

MW-6

1609382-02 (Aqueous) Sampled: 09/19/16 15:52

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/22/16 20:18	09/22/16 20:18	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	98.4 %		80-120	09/22/16 20:18	09/22/16 20:18	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.0 %		80-120	09/22/16 20:18	09/22/16 20:18	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %		80-120	09/22/16 20:18	09/22/16 20:18	EPA 8260 B				
Surrogate: Toluene-d8	104 %		80-120	09/22/16 20:18	09/22/16 20:18	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

Page 4 of 10



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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609382
Reported:
10/03/16 16:47

MW-7

1609382-03 (Aqueous) Sampled: 09/19/16 16:25

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.30	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/22/16 20:44	09/22/16 20:44	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	09/22/16 20:44	09/22/16 20:44	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.2 %		80-120	09/22/16 20:44	09/22/16 20:44	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	09/22/16 20:44	09/22/16 20:44	EPA 8260 B				
Surrogate: Toluene-d8	105 %		80-120	09/22/16 20:44	09/22/16 20:44	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609382
Reported:
10/03/16 16:47

MW-8

1609382-04 (Aqueous) Sampled: 09/19/16 16:12

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	196	10.0	µg/L	09/22/16 21:10	09/23/16 19:49	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	85.9	10.0	µg/L	09/22/16 21:10	09/23/16 19:49	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	71.3	2.00	µg/L	09/22/16 21:10	09/22/16 21:10	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	36.4	2.00	µg/L	09/22/16 21:10	09/22/16 21:10	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	10.8	2.00	µg/L	09/22/16 21:10	09/22/16 21:10	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/22/16 21:10	09/22/16 21:10	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	33.7	2.00	µg/L	09/22/16 21:10	09/22/16 21:10	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	21.5	2.00	µg/L	09/22/16 21:10	09/22/16 21:10	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	64.0	2.00	µg/L	09/22/16 21:10	09/22/16 21:10	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	165	20.0	µg/L	09/22/16 21:10	09/23/16 19:49	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	229	22.0	µg/L	09/22/16 21:10	09/23/16 19:49	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	99.5 %		80-120	09/22/16 21:10	09/22/16 21:10	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	101 %		80-120	09/22/16 21:10	09/22/16 21:10	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.2 %		80-120	09/22/16 21:10	09/22/16 21:10	EPA 8260 B				
Surrogate: Toluene-d8	107 %		80-120	09/22/16 21:10	09/22/16 21:10	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609382
Reported:
10/03/16 16:47

Trip Blank

1609382-05 (Aqueous) Sampled: 09/19/16 06:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/22/16 21:36	09/22/16 21:36	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	09/22/16 21:36	09/22/16 21:36	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.5 %		80-120	09/22/16 21:36	09/22/16 21:36	EPA 8260 B				
Surrogate: Dibromofluoromethane	109 %		80-120	09/22/16 21:36	09/22/16 21:36	EPA 8260 B				
Surrogate: Toluene-d8	105 %		80-120	09/22/16 21:36	09/22/16 21:36	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1609382
Reported:
10/03/16 16:47

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	09/30/2016
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2016

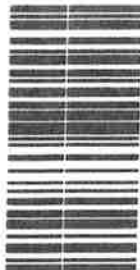
Notes and Definitions

D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager



Billing Group:	Phase:	PROJECT NAME			
bw samp Gw Sampling					
MIR Project #	SITE LOCATION				
4644.15.01	Indiana, PA				
CLIENT	SAMPLER(S)				
Vennards	K6 12M				
NOTES:					
Received On Ice: <input checked="" type="checkbox"/> Y ^N					
Sample Temp: 8.10C					
PWSID #:					
Comments:					
SAMPLE ID	DATE	TIME	GRAB	COMP	MATRIX
MW-5	9-19-16	347pm	X		Ab
MW-6		352pm			
MW-7		425pm			
MW-8		412pm			
Trp Blank		602pm			
RELINQUISHED BY:	DATE	TIME	ACCEPTED BY:		
Katy Gorn	9-19-16	520m	K6 12M		
RELINQUISHED BY:	DATE	TIME	ACCEPTED BY:		

[illegible]

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED:

DATE RECEIVED:

TIME RECEIVED:

1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 104. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒5. WERE THE SAMPLES RECEIVED ON ICE? YES ☒ NO ☐

IF NO, EXPLAIN: _____

6. RECEIVING TEMPERATURE: 8.1 °C BOTTLE(S) TEMPED: _____7. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: *h. DeB*

L60.30 A r1 Sample Receipt Form

For MR Use Only



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PADEP #33-00258
EPA Lab #PA00155**

18 October 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1610058

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 10/04/16 15:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1610058-01	Aqueous	Grab	10/04/16 07:12	10/04/16 15:01
MW-1	1610058-02	Aqueous	Grab	10/04/16 12:22	10/04/16 15:01
MW-2	1610058-03	Aqueous	Grab	10/04/16 12:38	10/04/16 15:01
MW-3	1610058-04	Aqueous	Grab	10/04/16 12:13	10/04/16 15:01
MW-4	1610058-05	Aqueous	Grab	10/04/16 12:48	10/04/16 15:01
MW-5	1610058-06	Aqueous	Grab	10/04/16 12:08	10/04/16 15:01
MW-6	1610058-07	Aqueous	Grab	10/04/16 09:58	10/04/16 15:01
MW-7	1610058-08	Aqueous	Grab	10/04/16 10:23	10/04/16 15:01
MW-8	1610058-09	Aqueous	Grab	10/04/16 12:04	10/04/16 15:01
Stream	1610058-10	Aqueous	Grab	10/04/16 13:00	10/04/16 15:01
Duplicate	1610058-11	Aqueous	Grab	10/04/16 12:48	10/04/16 15:01

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 1610058
Reported: 10/18/16 16:51

Trip Blank

1610058-01 (Aqueous) Sampled: 10/04/16 07:12

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 01:41	10/06/16 01:41	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	106 %	80-120		10/06/16 01:41	10/06/16 01:41	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.4 %	80-120		10/06/16 01:41	10/06/16 01:41	EPA 8260 B				
Surrogate: Dibromofluoromethane	109 %	80-120		10/06/16 01:41	10/06/16 01:41	EPA 8260 B				
Surrogate: Toluene-d8	103 %	80-120		10/06/16 01:41	10/06/16 01:41	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-1

1610058-02 (Aqueous) Sampled: 10/04/16 12:22

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.40	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 02:07	10/06/16 02:07	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	10/06/16 02:07	10/06/16 02:07	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.8 %		80-120	10/06/16 02:07	10/06/16 02:07	EPA 8260 B				
Surrogate: Dibromofluoromethane	111 %		80-120	10/06/16 02:07	10/06/16 02:07	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	10/06/16 02:07	10/06/16 02:07	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-2

1610058-03 (Aqueous) Sampled: 10/04/16 12:38

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	14.5	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	4.84	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	9.73	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	4.00	2.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 02:33	10/06/16 02:33	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	10/06/16 02:33	10/06/16 02:33	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.4 %		80-120	10/06/16 02:33	10/06/16 02:33	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	10/06/16 02:33	10/06/16 02:33	EPA 8260 B				
Surrogate: Toluene-d8	104 %		80-120	10/06/16 02:33	10/06/16 02:33	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-3

1610058-04 (Aqueous) Sampled: 10/04/16 12:13

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	5.92	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 02:59	10/06/16 02:59	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	10/06/16 02:59	10/06/16 02:59	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.5 %		80-120	10/06/16 02:59	10/06/16 02:59	EPA 8260 B				
Surrogate: Dibromofluoromethane	105 %		80-120	10/06/16 02:59	10/06/16 02:59	EPA 8260 B				
Surrogate: Toluene-d8	104 %		80-120	10/06/16 02:59	10/06/16 02:59	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-4

1610058-05 (Aqueous) Sampled: 10/04/16 12:48

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	57.0	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	5.19	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	18.9	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	7.42	4.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	7.42	6.00	µg/L	10/06/16 03:25	10/06/16 03:25	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	10/06/16 03:25	10/06/16 03:25	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.8 %		80-120	10/06/16 03:25	10/06/16 03:25	EPA 8260 B				
Surrogate: Dibromofluoromethane	113 %		80-120	10/06/16 03:25	10/06/16 03:25	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	10/06/16 03:25	10/06/16 03:25	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-5

1610058-06 (Aqueous) Sampled: 10/04/16 12:08

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 03:51	10/06/16 03:51	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		103 %	80-120	10/06/16 03:51	10/06/16 03:51	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120	10/06/16 03:51	10/06/16 03:51	EPA 8260 B				
Surrogate: Dibromofluoromethane		109 %	80-120	10/06/16 03:51	10/06/16 03:51	EPA 8260 B				
Surrogate: Toluene-d8		103 %	80-120	10/06/16 03:51	10/06/16 03:51	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-6

1610058-07 (Aqueous) Sampled: 10/04/16 09:58

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.44	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 04:17	10/06/16 04:17	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	105 %		80-120	10/06/16 04:17	10/06/16 04:17	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.1 %		80-120	10/06/16 04:17	10/06/16 04:17	EPA 8260 B				
Surrogate: Dibromofluoromethane	111 %		80-120	10/06/16 04:17	10/06/16 04:17	EPA 8260 B				
Surrogate: Toluene-d8	104 %		80-120	10/06/16 04:17	10/06/16 04:17	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-7

1610058-08 (Aqueous) Sampled: 10/04/16 10:23

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	18.9	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	11.1	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.67	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	13.5	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	7.34	2.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	7.34	6.00	µg/L	10/06/16 04:43	10/06/16 04:43	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	10/06/16 04:43	10/06/16 04:43	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.4 %		80-120	10/06/16 04:43	10/06/16 04:43	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %		80-120	10/06/16 04:43	10/06/16 04:43	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	10/06/16 04:43	10/06/16 04:43	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

MW-8

1610058-09 (Aqueous) Sampled: 10/04/16 12:04

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	440	20.0	µg/L	10/06/16 06:01	10/06/16 18:02	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	121	20.0	µg/L	10/06/16 06:01	10/06/16 18:02	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	90.9	20.0	µg/L	10/06/16 06:01	10/06/16 18:02	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	66.8	2.00	µg/L	10/06/16 06:01	10/06/16 06:01	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	20.7	2.00	µg/L	10/06/16 06:01	10/06/16 06:01	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	10/06/16 06:01	10/06/16 06:01	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	73.6	2.00	µg/L	10/06/16 06:01	10/06/16 06:01	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	25.9	2.00	µg/L	10/06/16 06:01	10/06/16 06:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	89.5	2.00	µg/L	10/06/16 06:01	10/06/16 06:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	298	40.0	µg/L	10/06/16 06:01	10/06/16 18:02	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	388	42.0	µg/L	10/06/16 06:01	10/06/16 18:02	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	99.2 %	80-120		10/06/16 06:01	10/06/16 06:01	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %	80-120		10/06/16 06:01	10/06/16 06:01	EPA 8260 B				
Surrogate: Dibromofluoromethane	105 %	80-120		10/06/16 06:01	10/06/16 06:01	EPA 8260 B				
Surrogate: Toluene-d8	103 %	80-120		10/06/16 06:01	10/06/16 06:01	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

Stream

1610058-10 (Aqueous) Sampled: 10/04/16 13:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 05:09	10/06/16 05:09	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	10/06/16 05:09	10/06/16 05:09	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.8 %		80-120	10/06/16 05:09	10/06/16 05:09	EPA 8260 B				
Surrogate: Dibromofluoromethane	110 %		80-120	10/06/16 05:09	10/06/16 05:09	EPA 8260 B				
Surrogate: Toluene-d8	105 %		80-120	10/06/16 05:09	10/06/16 05:09	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610058
Reported:
10/18/16 16:51

Duplicate

1610058-11 (Aqueous) Sampled: 10/04/16 12:48

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	44.3	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	3.16	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	17.5	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	4.42	4.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	10/06/16 05:35	10/06/16 05:35	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %	80-120		10/06/16 05:35	10/06/16 05:35	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.6 %	80-120		10/06/16 05:35	10/06/16 05:35	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %	80-120		10/06/16 05:35	10/06/16 05:35	EPA 8260 B				
Surrogate: Toluene-d8	102 %	80-120		10/06/16 05:35	10/06/16 05:35	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc 5190 White Oak Dr Indiana PA, 15701	Project Name: Indiana, PA Project Number: 4644.15.01 Lab Project Manager: Stephen Gampe	Lab ID#: 1610058 Reported: 10/18/16 16:51
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Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	09/30/2016
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2016

Notes and Definitions

D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

[illegible]

Billing Group:		Phase:	PROJECT NAME		
		FA	GW Sampling		
MR Project #		SITE LOCATION			
4644.15.01		Indiana, Pa			
CLIENT		SAMPLER(S)			
Vennards		BA/HH			
NOTES:					
Received On Ice: <u>6/1/16</u>					
Sample Temp: <u>5.0</u>					
PWSID #: _____					
Seal in Tack: <u>Y</u> / <u>N</u>					
Other: _____					
Comments: _____					
SAMPLE ID NO.	DATE	TIME	GRAB	COMP	MATRIX
<u>TRIP BLANK</u>	10/4/16	0712	X		AQ
MW-1		1222			
MW-2		1238			
MW-3		1213			
MW-4		1248			
MW-5		1208			
MW-6		0956			
MW-7		1023			
RELINQUISHED BY: <u>BA</u>		DATE	TIME	ACCEPTED BY: <u>BA</u>	
		10/4/16	1501		
RELINQUISHED BY:		DATE	TIME	ACCEPTED BY:	

MOUNTAIN RESEARCH LLC
825 25th Street, Altoona, PA 16601 (814) 949-2034 (80
110 McCracken Run Road, Dubois, PA 15801 (814) 371-6030 Fax:

MOUNTAIN RESEARCH LI(814) 949-2034 (80

(814) 371-6030 Fax:

CHAIN OF CUSTODY RECORD

Analyses Requested

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[illegible][illegible]

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[illegible]

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[illegible][illegible][illegible]

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TIME Lab WO #:

10.9	8590141
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TIME _____ **Labeled By:** _____

--	--

AFast

2

H:H:HYD

Page 1 of 2

10000

[illegible]

Page 2 of 2

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER: 1610058
 CLIENT: Winnings
 DATE SAMPLED: 10/4/16 DATE RECEIVED: 10/4/16 TIME RECEIVED: 5:01



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐
2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 22

4. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒

5. WERE THE SAMPLES RECEIVED ON ICE? YES ☐ NO ☒

IF NO, EXPLAIN: _____

6. RECEIVING TEMPERATURE: 5.0 °C BOTTLE(S) TEMPED: _____

7. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: K. Oep

L60.30 A r1 Sample Receipt Form

For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

Corporate Office and Laboratory

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PADEP #33-00258
EPA Lab #PA00155**

10 November 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1610721

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 10/31/16 15:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Tegan Schott", with a long horizontal flourish extending to the right.

Tegan Schott
Technical Specialist II
Authorized Reviewer



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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1610721-01	Aqueous	Grab	10/31/16 06:15	10/31/16 15:57
MW-1	1610721-02	Aqueous	Grab	10/31/16 12:50	10/31/16 15:57
MW-2	1610721-03	Aqueous	Grab	10/31/16 12:30	10/31/16 15:57
MW-3	1610721-04	Aqueous	Grab	10/31/16 13:02	10/31/16 15:57
MW-4	1610721-05	Aqueous	Grab	10/31/16 12:41	10/31/16 15:57
MW-5	1610721-06	Aqueous	Grab	10/31/16 13:10	10/31/16 15:57
MW-6	1610721-07	Aqueous	Grab	10/31/16 12:15	10/31/16 15:57
MW-7	1610721-08	Aqueous	Grab	10/31/16 12:22	10/31/16 15:57
MW-8	1610721-09	Aqueous	Grab	10/31/16 13:20	10/31/16 15:57
Duplicate	1610721-10	Aqueous	Grab	10/31/16 12:30	10/31/16 15:57
Stream	1610721-11	Aqueous	Grab	10/31/16 11:50	10/31/16 15:57

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Tegan Schott, Technical Specialist II

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

Trip Blank

1610721-01 (Aqueous) Sampled: 10/31/16 06:15

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	11/07/16 17:17	11/07/16 17:17	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	110 %	80-120		11/07/16 17:17	11/07/16 17:17	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %	80-120		11/07/16 17:17	11/07/16 17:17	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %	80-120		11/07/16 17:17	11/07/16 17:17	EPA 8260 B				
Surrogate: Toluene-d8	104 %	80-120		11/07/16 17:17	11/07/16 17:17	EPA 8260 B				

Mountain Research, LLC

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Tegan Schott

Tegan Schott, Technical Specialist II

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-1

1610721-02 (Aqueous) Sampled: 10/31/16 12:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
Benzene	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
Ethylbenzene	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
MTBE	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	N
Toluene	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
Xylene o	<2.00	2.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
Xylene p/m	<4.00	4.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	
Xylenes, Total	<6.00	6.00	µg/L	11/02/16 23:53	11/02/16 23:53	EPA 5030B	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	11/02/16 23:53	11/02/16 23:53	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.4 %		80-120	11/02/16 23:53	11/02/16 23:53	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	11/02/16 23:53	11/02/16 23:53	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	11/02/16 23:53	11/02/16 23:53	EPA 8260 B				

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Tegan Schott, Technical Specialist II

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-2

1610721-03 (Aqueous) Sampled: 10/31/16 12:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	6.84	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Benzene	49.0	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Ethylbenzene	13.3	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
MTBE	<2.00	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Toluene	13.0	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Xylene o	16.5	2.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Xylene p/m	27.2	4.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	
Xylenes, Total	43.8	6.00	µg/L	11/03/16 17:15	11/03/16 17:15	EPA 5030B	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4	96.2 %		80-120	11/03/16 17:15	11/03/16 17:15	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.8 %		80-120	11/03/16 17:15	11/03/16 17:15	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	11/03/16 17:15	11/03/16 17:15	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	11/03/16 17:15	11/03/16 17:15	EPA 8260 B				

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Page 5 of 16



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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-3

1610721-04 (Aqueous) Sampled: 10/31/16 13:02

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	6.96	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	11/07/16 17:43	11/07/16 17:43	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	109 %		80-120	11/07/16 17:43	11/07/16 17:43	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	101 %		80-120	11/07/16 17:43	11/07/16 17:43	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	11/07/16 17:43	11/07/16 17:43	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	11/07/16 17:43	11/07/16 17:43	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-4

1610721-05 (Aqueous) Sampled: 10/31/16 12:41

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	17.8	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	6.10	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
Benzene	25.2	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
Ethylbenzene	36.3	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
MTBE	8.73	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	N
Toluene	48.2	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
Xylene o	45.6	2.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
Xylene p/m	156	4.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	
Xylenes, Total	202	6.00	µg/L	11/03/16 16:49	11/03/16 16:49	EPA 5030B	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4	98.1 %		80-120	11/03/16 16:49	11/03/16 16:49	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.5 %		80-120	11/03/16 16:49	11/03/16 16:49	EPA 8260 B				
Surrogate: Dibromofluoromethane	105 %		80-120	11/03/16 16:49	11/03/16 16:49	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	11/03/16 16:49	11/03/16 16:49	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-5

1610721-06 (Aqueous) Sampled: 10/31/16 13:10

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	11/07/16 18:09	11/07/16 18:09	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	11/07/16 18:09	11/07/16 18:09	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.1 %		80-120	11/07/16 18:09	11/07/16 18:09	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	11/07/16 18:09	11/07/16 18:09	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	11/07/16 18:09	11/07/16 18:09	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-6

1610721-07 (Aqueous) Sampled: 10/31/16 12:15

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	11/07/16 18:35	11/07/16 18:35	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	11/07/16 18:35	11/07/16 18:35	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.0 %		80-120	11/07/16 18:35	11/07/16 18:35	EPA 8260 B				
Surrogate: Dibromofluoromethane	107 %		80-120	11/07/16 18:35	11/07/16 18:35	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	11/07/16 18:35	11/07/16 18:35	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-7

1610721-08 (Aqueous) Sampled: 10/31/16 12:22

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	6.12	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	49.7	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	10.4	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.39	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	26.8	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	23.1	2.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	42.1	4.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	65.2	6.00	µg/L	11/07/16 19:27	11/07/16 19:27	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		102 %	80-120	11/07/16 19:27	11/07/16 19:27	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		100 %	80-120	11/07/16 19:27	11/07/16 19:27	EPA 8260 B				
Surrogate: Dibromofluoromethane		106 %	80-120	11/07/16 19:27	11/07/16 19:27	EPA 8260 B				
Surrogate: Toluene-d8		101 %	80-120	11/07/16 19:27	11/07/16 19:27	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

MW-8

1610721-09 (Aqueous) Sampled: 10/31/16 13:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	452	50.0	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	124	50.0	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	1920	50.0	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	354	50.0	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	32.9	2.00	µg/L	11/05/16 08:47	11/05/16 08:47	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	26.4	2.00	µg/L	11/05/16 08:47	11/05/16 08:47	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	82.9	50.0	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	2310	50.0	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	799	50.0	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	1740	100	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	2540	150	µg/L	11/05/16 08:47	11/07/16 19:54	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	81.8 %	80-120		11/05/16 08:47	11/05/16 08:47	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %	80-120		11/05/16 08:47	11/05/16 08:47	EPA 8260 B				
Surrogate: Dibromofluoromethane	96.9 %	80-120		11/05/16 08:47	11/05/16 08:47	EPA 8260 B				
Surrogate: Toluene-d8	98.2 %	80-120		11/05/16 08:47	11/05/16 08:47	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

Duplicate

1610721-10 (Aqueous) Sampled: 10/31/16 12:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.54	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	11/07/16 19:01	11/07/16 19:01	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	109 %		80-120	11/07/16 19:01	11/07/16 19:01	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %		80-120	11/07/16 19:01	11/07/16 19:01	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	11/07/16 19:01	11/07/16 19:01	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	11/07/16 19:01	11/07/16 19:01	EPA 8260 B				

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Tegan Schott

Tegan Schott, Technical Specialist II

Page 12 of 16



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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

Stream

1610721-11 (Aqueous) Sampled: 10/31/16 11:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Benzene	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Ethylbenzene	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
MTBE	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Naphthalene	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Toluene	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Xylene o	<2.00	2.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Xylene p/m	<4.00	4.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	
Xylenes, Total	<6.00	6.00	µg/L	11/02/16 01:47	11/02/16 01:47	EPA 5030B	EPA 8260 B	A	MTG	CC
Surrogate: 1,2-Dichloroethane-d4	105 %	80-120		11/02/16 01:47	11/02/16 01:47	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.4 %	80-120		11/02/16 01:47	11/02/16 01:47	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %	80-120		11/02/16 01:47	11/02/16 01:47	EPA 8260 B				
Surrogate: Toluene-d8	102 %	80-120		11/02/16 01:47	11/02/16 01:47	EPA 8260 B				

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Tegan Schott

Tegan Schott, Technical Specialist II

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5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1610721
Reported:
11/10/16 10:26

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	12/31/2016
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017

Notes and Definitions

N	Matrix spike and matrix duplicate spike recovery was outside of the laboratory acceptance criteria.
D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

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Tegan Schott, Technical Specialist II

Page 14 of 16

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED:

DATE RECEIVED:

TIME RECEIVED:

1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 224. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒5. WERE THE SAMPLES RECEIVED ON ICE? YES ☒ NO ☐

IF NO, EXPLAIN: _____

6. RECEIVING TEMPERATURE: 4.3 °C BOTTLE(S) TEMPED: _____7. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: *[Signature]*

L60.30 A r1 Sample Receipt Form

For MR Use Only



MOUNTAIN RESEARCH, LLC

Corporate Office and Laboratory

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PADEP #33-00258
EPA Lab #PA00155

08 December 2016

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1611588

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 11/25/16 13:54. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1611588
Reported:
12/08/16 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1611588-01	Aqueous	Grab	11/23/16 06:00	11/25/16 13:54
MW-1BD	1611588-02	Aqueous	Grab	11/25/16 09:05	11/25/16 13:54
MW-2BD	1611588-03	Aqueous	Grab	11/25/16 08:06	11/25/16 13:54
MW-3BD	1611588-04	Aqueous	Grab	11/25/16 10:38	11/25/16 13:54

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1611588
Reported:
12/08/16 16:53

Trip Blank

1611588-01 (Aqueous) Sampled: 11/23/16 06:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	11/30/16 23:15	11/30/16 23:15	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	110 %		80-120	11/30/16 23:15	11/30/16 23:15	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.4 %		80-120	11/30/16 23:15	11/30/16 23:15	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	11/30/16 23:15	11/30/16 23:15	EPA 8260 B				
Surrogate: Toluene-d8	104 %		80-120	11/30/16 23:15	11/30/16 23:15	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1611588
Reported:
12/08/16 16:53

MW-1BD

1611588-02 (Aqueous) Sampled: 11/25/16 09:05

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	55.7	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	12.4	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	376	20.0	µg/L	11/30/16 23:41	12/01/16 17:36	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	38.8	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	5.36	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	13.9	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	6.72	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	27.4	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	64.0	2.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	101	4.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	165	6.00	µg/L	11/30/16 23:41	11/30/16 23:41	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	91.2 %		80-120	11/30/16 23:41	11/30/16 23:41	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %		80-120	11/30/16 23:41	11/30/16 23:41	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %		80-120	11/30/16 23:41	11/30/16 23:41	EPA 8260 B				
Surrogate: Toluene-d8	105 %		80-120	11/30/16 23:41	11/30/16 23:41	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1611588
Reported:
12/08/16 16:53

MW-2BD

1611588-03 (Aqueous) Sampled: 11/25/16 08:06

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	12/01/16 00:07	12/01/16 00:07	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	12/01/16 00:07	12/01/16 00:07	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	101 %		80-120	12/01/16 00:07	12/01/16 00:07	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	12/01/16 00:07	12/01/16 00:07	EPA 8260 B				
Surrogate: Toluene-d8	106 %		80-120	12/01/16 00:07	12/01/16 00:07	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
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Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1611588
Reported:
12/08/16 16:53

MW-3BD

1611588-04 (Aqueous) Sampled: 11/25/16 10:38

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	2.74	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	11.2	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	12/01/16 00:33	12/01/16 00:33	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	113 %		80-120	12/01/16 00:33	12/01/16 00:33		EPA 8260 B			
Surrogate: 4-Bromofluorobenzene	98.3 %		80-120	12/01/16 00:33	12/01/16 00:33		EPA 8260 B			
Surrogate: Dibromofluoromethane	103 %		80-120	12/01/16 00:33	12/01/16 00:33		EPA 8260 B			
Surrogate: Toluene-d8	105 %		80-120	12/01/16 00:33	12/01/16 00:33		EPA 8260 B			

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1611588
Reported:
12/08/16 16:53

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	10/31/2017
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017

Notes and Definitions

D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

Page 7 of 9

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

1611388

CLIENT:

Vennard

DATE SAMPLED:

11/25/16

DATE RECEIVED:

9/25/16

TIME RECEIVED:

1354



- CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PUBLIC WATER SUPPLY ☐ RUSH ☐
- WERE ANY OF THE SAMPLE CONTAINERS DAMAGED? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 8

4. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒

5. WERE THE SAMPLES RECEIVED ON ICE? YES ☐ NO ☐

IF NO, EXPLAIN: _____

6. RECEIVING TEMPERATURE: 3.7 °C BOTTLE(S) TEMPED: _____

7. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: [Signature]

L60.30 A r1 Sample Receipt Form

For MR Use Only



MOUNTAIN RESEARCH, LLC

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PADEP #33-00258
EPA Lab #PA00155

20 January 2017

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1701287

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 01/12/17 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1701287-01	Aqueous	Grab	01/11/17 11:00	01/12/17 16:30
MW-1	1701287-02	Aqueous	Grab	01/12/17 13:00	01/12/17 16:30
MW-2	1701287-03	Aqueous	Grab	01/12/17 11:52	01/12/17 16:30
MW-3	1701287-04	Aqueous	Grab	01/12/17 09:20	01/12/17 16:30
MW-4	1701287-05	Aqueous	Grab	01/12/17 13:08	01/12/17 16:30
MW-5	1701287-06	Aqueous	Grab	01/12/17 12:20	01/12/17 16:30
MW-6	1701287-07	Aqueous	Grab	01/12/17 10:40	01/12/17 16:30
MW-7	1701287-08	Aqueous	Grab	01/12/17 10:47	01/12/17 16:30
MW-8	1701287-09	Aqueous	Grab	01/12/17 12:00	01/12/17 16:30
MW-1BD	1701287-10	Aqueous	Grab	01/12/17 12:05	01/12/17 16:30
MW-2BD	1701287-11	Aqueous	Grab	01/12/17 10:30	01/12/17 16:30
MW-3BD	1701287-12	Aqueous	Grab	01/12/17 13:45	01/12/17 16:30
Stream	1701287-13	Aqueous	Grab	01/12/17 13:15	01/12/17 16:30
Duplicate	1701287-14	Aqueous	Grab	01/12/17 12:20	01/12/17 16:30

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

Trip Blank

1701287-01 (Aqueous) Sampled: 01/11/17 11:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 14:18	01/13/17 14:18	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	107 %		80-120	01/13/17 14:18	01/13/17 14:18	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.0 %		80-120	01/13/17 14:18	01/13/17 14:18	EPA 8260 B				
Surrogate: Dibromofluoromethane	112 %		80-120	01/13/17 14:18	01/13/17 14:18	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	01/13/17 14:18	01/13/17 14:18	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-1

1701287-02 (Aqueous) Sampled: 01/12/17 13:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.18	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 13:52	01/13/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	01/13/17 13:52	01/13/17 13:52	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.4 %		80-120	01/13/17 13:52	01/13/17 13:52	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	01/13/17 13:52	01/13/17 13:52	EPA 8260 B				
Surrogate: Toluene-d8	99.8 %		80-120	01/13/17 13:52	01/13/17 13:52	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-2

1701287-03 (Aqueous) Sampled: 01/12/17 11:52

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	183	50.0	µg/L	01/13/17 14:44	01/16/17 12:36	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	47.8	2.00	µg/L	01/13/17 14:44	01/13/17 14:44	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	1170	50.0	µg/L	01/13/17 14:44	01/16/17 12:36	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	245	50.0	µg/L	01/13/17 14:44	01/16/17 12:36	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	19.8	2.00	µg/L	01/13/17 14:44	01/13/17 14:44	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	15.4	2.00	µg/L	01/13/17 14:44	01/13/17 14:44	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	47.4	2.00	µg/L	01/13/17 14:44	01/13/17 14:44	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	1760	50.0	µg/L	01/13/17 14:44	01/16/17 12:36	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	414	50.0	µg/L	01/13/17 14:44	01/16/17 12:36	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	740	100	µg/L	01/13/17 14:44	01/16/17 12:36	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	1150	150	µg/L	01/13/17 14:44	01/16/17 12:36	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	95.6 %	80-120		01/13/17 14:44	01/13/17 14:44	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.1 %	80-120		01/13/17 14:44	01/13/17 14:44	EPA 8260 B				
Surrogate: Dibromofluoromethane	110 %	80-120		01/13/17 14:44	01/13/17 14:44	EPA 8260 B				
Surrogate: Toluene-d8	99.0 %	80-120		01/13/17 14:44	01/13/17 14:44	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-3

1701287-04 (Aqueous) Sampled: 01/12/17 09:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	3.01	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/16/17 14:20	01/16/17 14:20	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	01/16/17 14:20	01/16/17 14:20	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.0 %		80-120	01/16/17 14:20	01/16/17 14:20	EPA 8260 B				
Surrogate: Dibromofluoromethane	109 %		80-120	01/16/17 14:20	01/16/17 14:20	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	01/16/17 14:20	01/16/17 14:20	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-4

1701287-05 (Aqueous) Sampled: 01/12/17 13:08

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	61.8	2.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	21.0	2.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	145	20.0	µg/L	01/13/17 20:47	01/16/17 13:02	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	112	20.0	µg/L	01/13/17 20:47	01/16/17 13:02	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	6.88	2.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	14.6	2.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	13.9	2.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	12.5	2.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	25.6	2.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	189	4.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	214	6.00	µg/L	01/13/17 20:47	01/13/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	01/13/17 20:47	01/13/17 20:47	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.2 %		80-120	01/13/17 20:47	01/13/17 20:47	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	01/13/17 20:47	01/13/17 20:47	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	01/13/17 20:47	01/13/17 20:47	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-5

1701287-06 (Aqueous) Sampled: 01/12/17 12:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.65	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.23	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 15:35	01/13/17 15:35	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	01/13/17 15:35	01/13/17 15:35	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.7 %		80-120	01/13/17 15:35	01/13/17 15:35	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %		80-120	01/13/17 15:35	01/13/17 15:35	EPA 8260 B				
Surrogate: Toluene-d8	98.6 %		80-120	01/13/17 15:35	01/13/17 15:35	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-6

1701287-07 (Aqueous) Sampled: 01/12/17 10:40

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.57	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 16:01	01/13/17 16:01	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	107 %		80-120	01/13/17 16:01	01/13/17 16:01	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.4 %		80-120	01/13/17 16:01	01/13/17 16:01	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %		80-120	01/13/17 16:01	01/13/17 16:01	EPA 8260 B				
Surrogate: Toluene-d8	97.8 %		80-120	01/13/17 16:01	01/13/17 16:01	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-7

1701287-08 (Aqueous) Sampled: 01/12/17 10:47

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	206	20.0	µg/L	01/13/17 21:13	01/16/17 13:28	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	51.1	2.00	µg/L	01/13/17 21:13	01/13/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	458	20.0	µg/L	01/13/17 21:13	01/16/17 13:28	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	226	20.0	µg/L	01/13/17 21:13	01/16/17 13:28	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	19.3	2.00	µg/L	01/13/17 21:13	01/13/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	6.59	2.00	µg/L	01/13/17 21:13	01/13/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	49.7	2.00	µg/L	01/13/17 21:13	01/13/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	85.9	2.00	µg/L	01/13/17 21:13	01/13/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	27.2	2.00	µg/L	01/13/17 21:13	01/13/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	318	40.0	µg/L	01/13/17 21:13	01/16/17 13:28	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	345	42.0	µg/L	01/13/17 21:13	01/16/17 13:28	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	89.2 %		80-120	01/13/17 21:13	01/13/17 21:13	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.1 %		80-120	01/13/17 21:13	01/13/17 21:13	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	01/13/17 21:13	01/13/17 21:13	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	01/13/17 21:13	01/13/17 21:13	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-8

1701287-09 (Aqueous) Sampled: 01/12/17 12:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1240	50.0	µg/L	01/13/17 16:27	01/13/17 16:53	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	319	10.0	µg/L	01/13/17 16:27	01/13/17 16:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	5640	200	µg/L	01/13/17 16:27	01/16/17 13:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	1100	50.0	µg/L	01/13/17 16:27	01/13/17 16:53	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	76.5	10.0	µg/L	01/13/17 16:27	01/13/17 16:27	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	54.0	10.0	µg/L	01/13/17 16:27	01/13/17 16:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	319	10.0	µg/L	01/13/17 16:27	01/13/17 16:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	5960	200	µg/L	01/13/17 16:27	01/16/17 13:54	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	1690	50.0	µg/L	01/13/17 16:27	01/13/17 16:53	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	3690	100	µg/L	01/13/17 16:27	01/13/17 16:53	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	5380	150	µg/L	01/13/17 16:27	01/13/17 16:53	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	98.5 %	80-120		01/13/17 16:27	01/13/17 16:27	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.9 %	80-120		01/13/17 16:27	01/13/17 16:27	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %	80-120		01/13/17 16:27	01/13/17 16:27	EPA 8260 B				
Surrogate: Toluene-d8	99.5 %	80-120		01/13/17 16:27	01/13/17 16:27	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-1BD

1701287-10 (Aqueous) Sampled: 01/12/17 12:05

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	24.0	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	10.9	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	523	20.0	µg/L	01/13/17 21:39	01/16/17 11:44	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	4.34	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	6.64	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	6.42	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	17.5	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	13.3	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	22.0	2.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	13.5	4.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	35.5	6.00	µg/L	01/13/17 21:39	01/13/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.0 %		80-120	01/13/17 21:39	01/13/17 21:39	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.8 %		80-120	01/13/17 21:39	01/13/17 21:39	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	01/13/17 21:39	01/13/17 21:39	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	01/13/17 21:39	01/13/17 21:39	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-2BD

1701287-11 (Aqueous) Sampled: 01/12/17 10:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 17:19	01/13/17 17:19	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	01/13/17 17:19	01/13/17 17:19	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.6 %		80-120	01/13/17 17:19	01/13/17 17:19	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	01/13/17 17:19	01/13/17 17:19	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	01/13/17 17:19	01/13/17 17:19	EPA 8260 B				

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5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

MW-3BD

1701287-12 (Aqueous) Sampled: 01/12/17 13:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	3.18	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 17:45	01/13/17 17:45	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	01/13/17 17:45	01/13/17 17:45	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.8 %		80-120	01/13/17 17:45	01/13/17 17:45	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	01/13/17 17:45	01/13/17 17:45	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	01/13/17 17:45	01/13/17 17:45	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

Stream

1701287-13 (Aqueous) Sampled: 01/12/17 13:15

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.39	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 18:11	01/13/17 18:11	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	106 %		80-120	01/13/17 18:11	01/13/17 18:11	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.0 %		80-120	01/13/17 18:11	01/13/17 18:11	EPA 8260 B				
Surrogate: Dibromofluoromethane	105 %		80-120	01/13/17 18:11	01/13/17 18:11	EPA 8260 B				
Surrogate: Toluene-d8	99.6 %		80-120	01/13/17 18:11	01/13/17 18:11	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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814.375.0823 Fax

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

Duplicate

1701287-14 (Aqueous) Sampled: 01/12/17 12:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.05	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.23	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	01/13/17 18:38	01/13/17 18:38	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	01/13/17 18:38	01/13/17 18:38	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.9 %		80-120	01/13/17 18:38	01/13/17 18:38	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	01/13/17 18:38	01/13/17 18:38	EPA 8260 B				
Surrogate: Toluene-d8	99.1 %		80-120	01/13/17 18:38	01/13/17 18:38	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1701287
Reported:
01/20/17 16:10

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2017
WVDEP	West Virginia Department of Environmental Protection	225	10/31/2017
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017

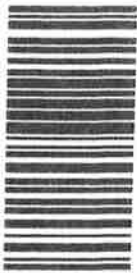
Notes and Definitions

D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258

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Stephen Gampe, Assistant Laboratory Manager



Billing Group: Phase: GW PROJECT NAME: OT Sampling
MR Project # 4644-1501 SITE LOCATION: Indiana, PA
CLIENT: Vennard's Crossroads SAMPLER(S): HL

MOUNTAIN RESEARCH LLC
825 25th Street, Altoona, PA 16601
110 McCracken Run Road, Dubois, PA 15801
(814) 949-2034
(814) 371-6030

CHAIN OF CUSTODY RECORD

NOTES:
Received On Ice: 8 / N
Sample Temp: 3.6°C
PWSID #: _____
Comments: _____

Analyses Requested				MR PROJ. MGR. <u>ML</u>	
Product Code				Shipping Carrier:	
NUMBER OF CONTAINERS				Turn Around Time:	
2-40ml				10 Day	
2A				3 Day	
860B				1 Day	
X				Comments:	
DATE/TIME				Preserve	
DATE				LAB NUMBER	
1-11-17	1100	X	AD	HL	01
1-12-17	1300	1			02
	1152	1			03
	0920	1			04
	1309	1			05
	1220	1			06
	1040	1			07
	1047	1			08
	1200	1			09
	1205	1			10
	1030	1			11
	1345	1			12
RELINQUISHED BY: <u>ML</u>	DATE: 1-12-17	TIME: 1630	ACCEPTED BY: <u>ML</u>	Lab Workorder #: 1701287	
RELINQUISHED BY: _____	DATE: _____	TIME: _____	ACCEPTED BY: _____	Labeled By: _____	
				Log In Time: 0855	
				Staff: <u>ML</u>	
				Date: 01/13/17	

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

1701287

CLIENT:

10 March

DATE SAMPLED:

1/12/17

DATE RECEIVED:

1/2/17

TIME RECEIVED:

1630



- CHECK ALL THAT APPLY: ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐
- WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☐

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED:

28

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMP: 36 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: _____

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____

CLIENT SPOKEN TO: _____

DATE/TIME: _____

OUTCOME: _____

SIGNATURE: _____

[Handwritten Signature]

L60.30.A r2 Sample Receipt Form

For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

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Fax (304) 930-1975

28 April 2017

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1704413

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 04/18/17 07:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1704413
Reported:
04/28/17 16:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1704413-01	Aqueous	Grab	04/17/17 06:05	04/18/17 07:25
MW-4BR	1704413-02	Aqueous	Grab	04/17/17 09:01	04/18/17 07:25
MW-9	1704413-03	Aqueous	Grab	04/17/17 09:21	04/18/17 07:25
EW-1BR	1704413-04	Aqueous	Grab	04/17/17 11:00	04/18/17 07:25
EW-1	1704413-05	Aqueous	Grab	04/17/17 10:50	04/18/17 07:25

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1704413
Reported:
04/28/17 16:27

Trip Blank

1704413-01 (Aqueous) Sampled: 04/17/17 06:05

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	04/25/17 22:37	04/25/17 22:37	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	04/25/17 22:37	04/25/17 22:37	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.2 %		80-120	04/25/17 22:37	04/25/17 22:37	EPA 8260 B				
Surrogate: Dibromofluoromethane	109 %		80-120	04/25/17 22:37	04/25/17 22:37	EPA 8260 B				
Surrogate: Toluene-d8	97.4 %		80-120	04/25/17 22:37	04/25/17 22:37	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1704413
Reported:
04/28/17 16:27

MW-4BR

1704413-02 (Aqueous) Sampled: 04/17/17 09:01

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	04/25/17 23:03	04/25/17 23:03	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	04/25/17 23:03	04/25/17 23:03	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.7 %		80-120	04/25/17 23:03	04/25/17 23:03	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	04/25/17 23:03	04/25/17 23:03	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	04/25/17 23:03	04/25/17 23:03	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1704413
Reported:
04/28/17 16:27

MW-9

1704413-03 (Aqueous) Sampled: 04/17/17 09:21

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	93.4	2.00	µg/L	04/25/17 23:29	04/25/17 23:29	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	29.3	2.00	µg/L	04/25/17 23:29	04/25/17 23:29	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	89.6	2.00	µg/L	04/25/17 23:29	04/25/17 23:29	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	43.4	2.00	µg/L	04/25/17 23:29	04/25/17 23:29	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	7.06	2.00	µg/L	04/25/17 23:29	04/25/17 23:29	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	04/25/17 23:29	04/25/17 23:29	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	11.5	2.00	µg/L	04/25/17 23:29	04/25/17 23:29	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	163	20.0	µg/L	04/25/17 23:29	04/26/17 23:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	109	20.0	µg/L	04/25/17 23:29	04/26/17 23:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	251	40.0	µg/L	04/25/17 23:29	04/26/17 23:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	360	60.0	µg/L	04/25/17 23:29	04/26/17 23:33	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	98.2 %		80-120	04/25/17 23:29	04/25/17 23:29	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %		80-120	04/25/17 23:29	04/25/17 23:29	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	04/25/17 23:29	04/25/17 23:29	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	04/25/17 23:29	04/25/17 23:29	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1704413
Reported:
04/28/17 16:27

EW-1BR

1704413-04 (Aqueous) Sampled: 04/17/17 11:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	160	20.0	µg/L	04/25/17 23:56	04/26/17 23:59	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	48.4	2.00	µg/L	04/25/17 23:56	04/25/17 23:56	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	684	20.0	µg/L	04/25/17 23:56	04/26/17 23:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	148	20.0	µg/L	04/25/17 23:56	04/26/17 23:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	16.8	2.00	µg/L	04/25/17 23:56	04/25/17 23:56	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	5.19	2.00	µg/L	04/25/17 23:56	04/25/17 23:56	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	35.6	2.00	µg/L	04/25/17 23:56	04/25/17 23:56	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	483	20.0	µg/L	04/25/17 23:56	04/26/17 23:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	144	20.0	µg/L	04/25/17 23:56	04/26/17 23:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	451	40.0	µg/L	04/25/17 23:56	04/26/17 23:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	594	60.0	µg/L	04/25/17 23:56	04/26/17 23:59	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	95.9 %		80-120	04/25/17 23:56	04/25/17 23:56	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.9 %		80-120	04/25/17 23:56	04/25/17 23:56	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.1 %		80-120	04/25/17 23:56	04/25/17 23:56	EPA 8260 B				
Surrogate: Toluene-d8	98.8 %		80-120	04/25/17 23:56	04/25/17 23:56	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1704413
Reported:
04/28/17 16:27

EW-1

1704413-05 (Aqueous) Sampled: 04/17/17 10:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	932	100	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	242	100	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	2990	100	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	844	100	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	59.7	2.00	µg/L	04/26/17 00:22	04/26/17 00:22	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	11.6	2.00	µg/L	04/26/17 00:22	04/26/17 00:22	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	201	100	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	4480	200	µg/L	04/26/17 00:22	04/27/17 00:52	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	1510	100	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	3670	200	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	5180	300	µg/L	04/26/17 00:22	04/27/17 00:25	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	95.6 %		80-120	04/26/17 00:22	04/26/17 00:22	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	101 %		80-120	04/26/17 00:22	04/26/17 00:22	EPA 8260 B				
Surrogate: Dibromofluoromethane	107 %		80-120	04/26/17 00:22	04/26/17 00:22	EPA 8260 B				
Surrogate: Toluene-d8	97.6 %		80-120	04/26/17 00:22	04/26/17 00:22	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1704413
Reported:
04/28/17 16:27

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	10/31/2017
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2017

Notes and Definitions

D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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Stephen Gampe, Assistant Laboratory Manager

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER: 1704413

CLIENT: Vennards

DATE SAMPLED: 04/17/17 DATE RECEIVED: 04/18/17 TIME RECEIVED: 0725



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 10

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMP: 5.1 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: 1

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: Shay Eckhardt

L60.30.A r2 Sample Receipt Form

For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

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09 May 2017

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 1705028

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 05/01/17 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	1705028-01	Aqueous	Grab	05/01/17 06:45	05/01/17 16:00
MW-1	1705028-02	Aqueous	Grab	05/01/17 13:25	05/01/17 16:00
MW-3	1705028-03	Aqueous	Grab	05/01/17 13:17	05/01/17 16:00
MW-4	1705028-04	Aqueous	Grab	05/01/17 13:11	05/01/17 16:00
MW-5	1705028-05	Aqueous	Grab	05/01/17 13:30	05/01/17 16:00
MW-6	1705028-06	Aqueous	Grab	05/01/17 10:47	05/01/17 16:00
MW-7	1705028-07	Aqueous	Grab	05/01/17 13:35	05/01/17 16:00
MW-8	1705028-08	Aqueous	Grab	05/01/17 13:46	05/01/17 16:00
MW-9	1705028-09	Aqueous	Grab	05/01/17 13:05	05/01/17 16:00
MW-1BR	1705028-10	Aqueous	Grab	05/01/17 13:42	05/01/17 16:00
MW-2BR	1705028-11	Aqueous	Grab	05/01/17 11:50	05/01/17 16:00
MW-3BR	1705028-12	Aqueous	Grab	05/01/17 13:21	05/01/17 16:00
MW-4BR	1705028-13	Aqueous	Grab	05/01/17 08:56	05/01/17 16:00
EW-1	1705028-14	Aqueous	Grab	05/01/17 13:53	05/01/17 16:00
EW-1BR	1705028-15	Aqueous	Grab	05/01/17 13:49	05/01/17 16:00
Stream	1705028-16	Aqueous	Grab	05/01/17 14:03	05/01/17 16:00

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

Trip Blank

1705028-01 (Aqueous) Sampled: 05/01/17 06:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/05/17 05:54	05/05/17 05:54	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	05/05/17 05:54	05/05/17 05:54	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.2 %		80-120	05/05/17 05:54	05/05/17 05:54	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	05/05/17 05:54	05/05/17 05:54	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	05/05/17 05:54	05/05/17 05:54	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-1

1705028-02 (Aqueous) Sampled: 05/01/17 13:25

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	4.89	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	Na
Toluene	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/05/17 01:58	05/05/17 01:58	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	05/05/17 01:58	05/05/17 01:58	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.8 %		80-120	05/05/17 01:58	05/05/17 01:58	EPA 8260 B				
Surrogate: Dibromofluoromethane	107 %		80-120	05/05/17 01:58	05/05/17 01:58	EPA 8260 B				
Surrogate: Toluene-d8	99.9 %		80-120	05/05/17 01:58	05/05/17 01:58	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-3

1705028-03 (Aqueous) Sampled: 05/01/17 13:17

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/05/17 06:21	05/05/17 06:21	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	05/05/17 06:21	05/05/17 06:21	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.6 %		80-120	05/05/17 06:21	05/05/17 06:21	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	05/05/17 06:21	05/05/17 06:21	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	05/05/17 06:21	05/05/17 06:21	EPA 8260 B				

Mountain Research, LLC

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-4

1705028-04 (Aqueous) Sampled: 05/01/17 13:11

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	52.0	2.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	26.1	2.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	202	20.0	µg/L	05/05/17 08:59	05/05/17 13:00	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	174	20.0	µg/L	05/05/17 08:59	05/05/17 13:00	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	13.2	2.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	17.4	2.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	22.1	2.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	3.22	2.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	2.76	2.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	105	4.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	107	6.00	µg/L	05/05/17 08:59	05/05/17 08:59	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	97.0 %		80-120	05/05/17 08:59	05/05/17 08:59	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %		80-120	05/05/17 08:59	05/05/17 08:59	EPA 8260 B				
Surrogate: Dibromofluoromethane	97.6 %		80-120	05/05/17 08:59	05/05/17 08:59	EPA 8260 B				
Surrogate: Toluene-d8	98.2 %		80-120	05/05/17 08:59	05/05/17 08:59	EPA 8260 B				

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Stephen Gampe

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-5

1705028-05 (Aqueous) Sampled: 05/01/17 13:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.66	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	9.64	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/05/17 06:47	05/05/17 06:47	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %	80-120		05/05/17 06:47	05/05/17 06:47	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.2 %	80-120		05/05/17 06:47	05/05/17 06:47	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %	80-120		05/05/17 06:47	05/05/17 06:47	EPA 8260 B				
Surrogate: Toluene-d8	101 %	80-120		05/05/17 06:47	05/05/17 06:47	EPA 8260 B				

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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-6

1705028-06 (Aqueous) Sampled: 05/01/17 10:47

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	N
Toluene	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/05/17 13:26	05/05/17 13:26	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	108 %		80-120	05/05/17 13:26	05/05/17 13:26	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.7 %		80-120	05/05/17 13:26	05/05/17 13:26	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	05/05/17 13:26	05/05/17 13:26	EPA 8260 B				
Surrogate: Toluene-d8	98.3 %		80-120	05/05/17 13:26	05/05/17 13:26	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-7

1705028-07 (Aqueous) Sampled: 05/01/17 13:35

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	22.2	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	4.93	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	120	20.0	µg/L	05/05/17 09:26	05/05/17 16:56	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	33.0	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	3.79	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	5.64	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	2.10	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	23.6	4.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	23.6	6.00	µg/L	05/05/17 09:26	05/05/17 09:26	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	99.8 %		80-120	05/05/17 09:26	05/05/17 09:26	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %		80-120	05/05/17 09:26	05/05/17 09:26	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.1 %		80-120	05/05/17 09:26	05/05/17 09:26	EPA 8260 B				
Surrogate: Toluene-d8	96.8 %		80-120	05/05/17 09:26	05/05/17 09:26	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-8

1705028-08 (Aqueous) Sampled: 05/01/17 13:46

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	788	50.0	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	194	50.0	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	4150	200	µg/L	05/05/17 08:06	05/05/17 08:06	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	870	50.0	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	50.4	50.0	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<50.0	50.0	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	216	50.0	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	3890	200	µg/L	05/05/17 08:06	05/05/17 08:06	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	1260	50.0	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	3160	100	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	4410	150	µg/L	05/05/17 08:06	05/05/17 08:33	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	97.9 %	80-120		05/05/17 08:06	05/05/17 08:33	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %	80-120		05/05/17 08:06	05/05/17 08:33	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.2 %	80-120		05/05/17 08:06	05/05/17 08:33	EPA 8260 B				
Surrogate: Toluene-d8	95.8 %	80-120		05/05/17 08:06	05/05/17 08:33	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-9

1705028-09 (Aqueous) Sampled: 05/01/17 13:05

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	26.0	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	9.19	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	29.5	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	5.65	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	3.38	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	31.9	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	42.3	2.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	73.1	4.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	115	6.00	µg/L	05/05/17 09:52	05/05/17 09:52	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	05/05/17 09:52	05/05/17 09:52	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	101 %		80-120	05/05/17 09:52	05/05/17 09:52	EPA 8260 B				
Surrogate: Dibromofluoromethane	94.0 %		80-120	05/05/17 09:52	05/05/17 09:52	EPA 8260 B				
Surrogate: Toluene-d8	99.2 %		80-120	05/05/17 09:52	05/05/17 09:52	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-1BR

1705028-10 (Aqueous) Sampled: 05/01/17 13:42

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	6.21	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	84.4	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	3.48	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	2.28	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	4.47	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	4.88	2.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	9.65	4.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	14.5	6.00	µg/L	05/05/17 15:11	05/05/17 15:11	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	105 %	80-120		05/05/17 15:11	05/05/17 15:11	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.8 %	80-120		05/05/17 15:11	05/05/17 15:11	EPA 8260 B				
Surrogate: Dibromofluoromethane	105 %	80-120		05/05/17 15:11	05/05/17 15:11	EPA 8260 B				
Surrogate: Toluene-d8	99.1 %	80-120		05/05/17 15:11	05/05/17 15:11	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-2BR

1705028-11 (Aqueous) Sampled: 05/01/17 11:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/05/17 13:52	05/05/17 13:52	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	106 %		80-120	05/05/17 13:52	05/05/17 13:52	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.6 %		80-120	05/05/17 13:52	05/05/17 13:52	EPA 8260 B				
Surrogate: Dibromofluoromethane	97.9 %		80-120	05/05/17 13:52	05/05/17 13:52	EPA 8260 B				
Surrogate: Toluene-d8	97.8 %		80-120	05/05/17 13:52	05/05/17 13:52	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

Page 13 of 22



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-3BR

1705028-12 (Aqueous) Sampled: 05/01/17 13:21

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	5.67	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/05/17 14:19	05/05/17 14:19	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	05/05/17 14:19	05/05/17 14:19	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %		80-120	05/05/17 14:19	05/05/17 14:19	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	05/05/17 14:19	05/05/17 14:19	EPA 8260 B				
Surrogate: Toluene-d8	98.6 %		80-120	05/05/17 14:19	05/05/17 14:19	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

MW-4BR

1705028-13 (Aqueous) Sampled: 05/01/17 08:56

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	20.4	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	6.81	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	22.6	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	10.5	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	2.45	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	41.7	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	31.1	2.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	65.0	4.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	96.2	6.00	µg/L	05/05/17 14:45	05/05/17 14:45	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	05/05/17 14:45	05/05/17 14:45	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.8 %		80-120	05/05/17 14:45	05/05/17 14:45	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	05/05/17 14:45	05/05/17 14:45	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	05/05/17 14:45	05/05/17 14:45	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

EW-1

1705028-14 (Aqueous) Sampled: 05/01/17 13:53

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1060	200	µg/L	05/05/17 16:04	05/05/17 16:30	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	247	10.0	µg/L	05/05/17 16:04	05/05/17 16:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	2470	200	µg/L	05/05/17 16:04	05/05/17 16:30	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	828	200	µg/L	05/05/17 16:04	05/05/17 16:30	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	55.6	10.0	µg/L	05/05/17 16:04	05/05/17 16:04	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	10.2	10.0	µg/L	05/05/17 16:04	05/05/17 16:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	229	10.0	µg/L	05/05/17 16:04	05/05/17 16:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	4800	200	µg/L	05/05/17 16:04	05/05/17 16:30	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	1610	200	µg/L	05/05/17 16:04	05/05/17 16:30	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	3920	400	µg/L	05/05/17 16:04	05/05/17 16:30	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	5530	600	µg/L	05/05/17 16:04	05/05/17 16:30	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	97.5 %	80-120		05/05/17 16:04	05/05/17 16:04	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %	80-120		05/05/17 16:04	05/05/17 16:04	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %	80-120		05/05/17 16:04	05/05/17 16:04	EPA 8260 B				
Surrogate: Toluene-d8	98.8 %	80-120		05/05/17 16:04	05/05/17 16:04	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

EW-1BR

1705028-15 (Aqueous) Sampled: 05/01/17 13:49

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	199	20.0	µg/L	05/05/17 15:37	05/09/17 02:01	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	53.1	2.00	µg/L	05/05/17 15:37	05/05/17 15:37	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	679	20.0	µg/L	05/05/17 15:37	05/09/17 02:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	174	20.0	µg/L	05/05/17 15:37	05/09/17 02:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	18.3	2.00	µg/L	05/05/17 15:37	05/05/17 15:37	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	4.87	2.00	µg/L	05/05/17 15:37	05/05/17 15:37	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	42.2	2.00	µg/L	05/05/17 15:37	05/05/17 15:37	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	469	20.0	µg/L	05/05/17 15:37	05/09/17 02:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	173	20.0	µg/L	05/05/17 15:37	05/09/17 02:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	551	40.0	µg/L	05/05/17 15:37	05/09/17 02:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	724	60.0	µg/L	05/05/17 15:37	05/09/17 02:01	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	95.9 %		80-120	05/05/17 15:37	05/05/17 15:37	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	101 %		80-120	05/05/17 15:37	05/05/17 15:37	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.5 %		80-120	05/05/17 15:37	05/05/17 15:37	EPA 8260 B				
Surrogate: Toluene-d8	98.2 %		80-120	05/05/17 15:37	05/05/17 15:37	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

Stream

1705028-16 (Aqueous) Sampled: 05/01/17 14:03

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/04/17 17:11	05/04/17 17:11	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	05/04/17 17:11	05/04/17 17:11	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.6 %		80-120	05/04/17 17:11	05/04/17 17:11	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	05/04/17 17:11	05/04/17 17:11	EPA 8260 B				
Surrogate: Toluene-d8	99.0 %		80-120	05/04/17 17:11	05/04/17 17:11	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
1705028
Reported:
05/09/17 16:16

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	10/31/2017
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2017

Notes and Definitions

Na	Matrix spike recovery was outside of the laboratory acceptance criteria.
N	Matrix spike recovery was outside of the laboratory acceptance criteria.
D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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MOUNTAIN RESEARCH LLC
(814) 949-2034 (80)
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825 25th Street, Altoona, PA 16601
110 McCracken Run Road, Dubois, PA 15801

Billing Group: Phase: SCR	PROJECT NAME Vennard's
MR Project # 4644.15.01	SITE LOCATION Indiana, PA
CLIENT Vennard's	SAMPLER(S) BA

NOTES:
Received On Ice: Y / N
Sample Temp: 4.6 °C
Comp Set _____
Comments: _____

CHAIN OF CUSTODY RECORD

NUMBER OF CONTAINERS				PRODUCT CODE				8260B			
SAMPLE ID	DATE	TIME	GRAB	COMP	MATRIX						
TRIP BLANK	5/1/2017	0645	X		AQ	240mL VOA	2A	X			
MW-1	5/1/2017	1325	X		AQ	240mL VOA	2A	X			
MW-3	5/1/2017	1317	X		AQ	240mL VOA	2A	X			
MW-4	5/1/2017	1311	X		AQ	240mL VOA	2A	X			
MW-5	5/1/2017	1330	X		AQ	240mL VOA	2A	X			
MW-6	5/1/2017	1047	X		AQ	240mL VOA	2A	X			
MW-7	5/1/2017	1335	X		AQ	240mL VOA	2A	X			
MW-8	5/1/2017	1346	X		AQ	240mL VOA	2A	X			
MW-9	5/1/2017	1305	X		AQ	240mL VOA	2A	X			
MW-1BR	5/1/2017	1342	X		AQ	240mL VOA	2A	X			
MW-2BR	5/1/2017	1150	X		AQ	240mL VOA	2A	X			
MW-3BR	5/1/2017	1321	X		AQ	240mL VOA	2A	X			

RELINQUISHED BY: <u>[Signature]</u>	DATE 5/1/17	TIME 1600	ACCEPTED BY: <u>[Signature]</u>	DATE/TIME 05/01/17 1600	Lab Workorder #: 1705028
RELINQUISHED BY:	DATE	TIME	ACCEPTED BY:	DATE/TIME	Labeled By:

MR PROJ. MGR. MK	Shipping Carrier:
Turn Around Time: 10 Day <u>X</u> 3 Day _____ 1 Day _____	Comments:
Preserve	LAB NUMBER
HCI	01
HCI	02
HCI	03
HCI	04
HCI	05
HCI	06
HCI	07
HCI	08
HCI	09
HCI	10
HCI	11
HCI	12

Log In Time: 1015	Staff: JAR
Date: 05/02/17	

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER: 1705028
 CLIENT: Vennard's
 DATE SAMPLED: 05/01/17 DATE RECEIVED: 05/01/17 TIME RECEIVED: 1600



1. CHECK ALL THAT APPLY: ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 32

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMP: 4.6 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: 1

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____ PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____ CLIENT SPOKEN TO: _____ DATE/TIME: _____

OUTCOME: _____

SIGNATURE: Steve Eckhardt

L60.30.A r2 Sample Receipt Form

For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

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28 August 2017

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 7080492

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 08/15/17 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	7080492-01	Aqueous	Grab	08/14/17 07:30	08/15/17 15:20
MW-1	7080492-02	Aqueous	Grab	08/14/17 09:39	08/15/17 15:20
MW-2	7080492-03	Aqueous	Grab	08/14/17 14:50	08/15/17 15:20
MW-3	7080492-04	Aqueous	Grab	08/14/17 14:00	08/15/17 15:20
MW-4	7080492-05	Aqueous	Grab	08/14/17 11:59	08/15/17 15:20
MW-5	7080492-06	Aqueous	Grab	08/14/17 14:08	08/15/17 15:20
MW-6	7080492-07	Aqueous	Grab	08/14/17 11:10	08/15/17 15:20
MW-7	7080492-08	Aqueous	Grab	08/14/17 11:44	08/15/17 15:20
MW-8	7080492-09	Aqueous	Grab	08/14/17 12:08	08/15/17 15:20
MW-9	7080492-10	Aqueous	Grab	08/14/17 13:07	08/15/17 15:20
MW-1BR	7080492-11	Aqueous	Grab	08/14/17 12:39	08/15/17 15:20
MW-2BR	7080492-12	Aqueous	Grab	08/14/17 11:29	08/15/17 15:20
MW-3BR	7080492-13	Aqueous	Grab	08/14/17 10:34	08/15/17 15:20
MW-4BR	7080492-14	Aqueous	Grab	08/14/17 13:26	08/15/17 15:20
EW-1	7080492-15	Aqueous	Grab	08/14/17 12:50	08/15/17 15:20
EW-1BR	7080492-16	Aqueous	Grab	08/14/17 14:18	08/15/17 15:20
Stream	7080492-17	Aqueous	Grab	08/14/17 13:33	08/15/17 15:20
Duplicate	7080492-18	Aqueous	Grab	08/14/17 00:00	08/15/17 15:20

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

Trip Blank

7080492-01 (Aqueous) Sampled: 08/14/17 07:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/22/17 01:44	08/22/17 01:44	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	113 %		80-120	08/22/17 01:44	08/22/17 01:44	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.4 %		80-120	08/22/17 01:44	08/22/17 01:44	EPA 8260 B				
Surrogate: Dibromofluoromethane	114 %		80-120	08/22/17 01:44	08/22/17 01:44	EPA 8260 B				
Surrogate: Toluene-d8	99.3 %		80-120	08/22/17 01:44	08/22/17 01:44	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-1

7080492-02 (Aqueous) Sampled: 08/14/17 09:39

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	Na
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	Na
Benzene	<2.00	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	N
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	Na
MTBE	2.23	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	Na
Toluene	<2.00	2.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/21/17 16:11	08/21/17 16:11	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	107 %		80-120	08/21/17 16:11	08/21/17 16:11	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.1 %		80-120	08/21/17 16:11	08/21/17 16:11	EPA 8260 B				
Surrogate: Dibromofluoromethane	115 %		80-120	08/21/17 16:11	08/21/17 16:11	EPA 8260 B				
Surrogate: Toluene-d8	98.5 %		80-120	08/21/17 16:11	08/21/17 16:11	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-2

7080492-03 (Aqueous) Sampled: 08/14/17 14:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	858	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1, X
1,3,5-Trimethylbenzene	346	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	703	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1, X
Ethylbenzene	505	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1, X
Isopropylbenzene (Cumene)	83.3	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	10.4	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	274	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	927	10.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	D1, X
Xylenes, Total	2310	30.0	µg/L	08/27/17 21:13	08/27/17 21:13	EPA 5030B	EPA 8260 B	A	JMG	CC, D1, X
Surrogate: 1,2-Dichloroethane-d4	99.4 %	80-120		08/27/17 21:13	08/27/17 21:13	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.6 %	80-120		08/27/17 21:13	08/27/17 21:13	EPA 8260 B				
Surrogate: Dibromofluoromethane	109 %	80-120		08/27/17 21:13	08/27/17 21:13	EPA 8260 B				
Surrogate: Toluene-d8	101 %	80-120		08/27/17 21:13	08/27/17 21:13	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-3

7080492-04 (Aqueous) Sampled: 08/14/17 14:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/22/17 00:53	08/22/17 00:53	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	110 %		80-120	08/22/17 00:53	08/22/17 00:53	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.0 %		80-120	08/22/17 00:53	08/22/17 00:53	EPA 8260 B				
Surrogate: Dibromofluoromethane	113 %		80-120	08/22/17 00:53	08/22/17 00:53	EPA 8260 B				
Surrogate: Toluene-d8	99.3 %		80-120	08/22/17 00:53	08/22/17 00:53	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-4

7080492-05 (Aqueous) Sampled: 08/14/17 11:59

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	41.3	2.00	µg/L	08/19/17 07:14	08/19/17 07:14	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/19/17 07:14	08/19/17 07:14	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	162	10.0	µg/L	08/19/17 07:14	08/27/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	195	10.0	µg/L	08/19/17 07:14	08/27/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	17.4	2.00	µg/L	08/19/17 07:14	08/19/17 07:14	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	6.43	2.00	µg/L	08/19/17 07:14	08/19/17 07:14	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	35.4	10.0	µg/L	08/19/17 07:14	08/27/17 21:39	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	<2.00	2.00	µg/L	08/19/17 07:14	08/19/17 07:14	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/19/17 07:14	08/19/17 07:14	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	99.8 %		80-120	08/19/17 07:14	08/19/17 07:14	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %		80-120	08/19/17 07:14	08/19/17 07:14	EPA 8260 B				
Surrogate: Dibromofluoromethane	95.5 %		80-120	08/19/17 07:14	08/19/17 07:14	EPA 8260 B				
Surrogate: Toluene-d8	97.0 %		80-120	08/19/17 07:14	08/19/17 07:14	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-5

7080492-06 (Aqueous) Sampled: 08/14/17 14:08

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.65	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/22/17 02:10	08/22/17 02:10	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	109 %		80-120	08/22/17 02:10	08/22/17 02:10	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	91.5 %		80-120	08/22/17 02:10	08/22/17 02:10	EPA 8260 B				
Surrogate: Dibromofluoromethane	116 %		80-120	08/22/17 02:10	08/22/17 02:10	EPA 8260 B				
Surrogate: Toluene-d8	99.3 %		80-120	08/22/17 02:10	08/22/17 02:10	EPA 8260 B				

Mountain Research, LLC

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-6

7080492-07 (Aqueous) Sampled: 08/14/17 11:10

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/22/17 20:24	08/22/17 20:24	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	104 %		80-120	08/22/17 20:24	08/22/17 20:24	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.4 %		80-120	08/22/17 20:24	08/22/17 20:24	EPA 8260 B				
Surrogate: Dibromofluoromethane	107 %		80-120	08/22/17 20:24	08/22/17 20:24	EPA 8260 B				
Surrogate: Toluene-d8	97.5 %		80-120	08/22/17 20:24	08/22/17 20:24	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-7

7080492-08 (Aqueous) Sampled: 08/14/17 11:44

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	4.43	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	52.4	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	13.5	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	7.16	2.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	10.1	6.00	µg/L	08/22/17 02:36	08/22/17 02:36	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		105 %	80-120	08/22/17 02:36	08/22/17 02:36	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		93.7 %	80-120	08/22/17 02:36	08/22/17 02:36	EPA 8260 B				
Surrogate: Dibromofluoromethane		115 %	80-120	08/22/17 02:36	08/22/17 02:36	EPA 8260 B				
Surrogate: Toluene-d8		99.0 %	80-120	08/22/17 02:36	08/22/17 02:36	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-8

7080492-09 (Aqueous) Sampled: 08/14/17 12:08

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	714	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	125	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	2830	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1, X
Ethylbenzene	703	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	50.5	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<50.0	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	222	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	1160	50.0	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	2770	150	µg/L	08/27/17 22:05	08/27/17 22:05	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	107 %	80-120		08/27/17 22:05	08/27/17 22:05	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.0 %	80-120		08/27/17 22:05	08/27/17 22:05	EPA 8260 B				
Surrogate: Dibromofluoromethane	110 %	80-120		08/27/17 22:05	08/27/17 22:05	EPA 8260 B				
Surrogate: Toluene-d8	101 %	80-120		08/27/17 22:05	08/27/17 22:05	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-9

7080492-10 (Aqueous) Sampled: 08/14/17 13:07

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	27.8	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	8.87	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	55.4	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	4.97	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	2.89	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	3.51	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	15.7	2.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	51.2	6.00	µg/L	08/27/17 19:54	08/27/17 19:54	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.0 %		80-120	08/27/17 19:54	08/27/17 19:54	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.2 %		80-120	08/27/17 19:54	08/27/17 19:54	EPA 8260 B				
Surrogate: Dibromofluoromethane	113 %		80-120	08/27/17 19:54	08/27/17 19:54	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	08/27/17 19:54	08/27/17 19:54	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-1BR

7080492-11 (Aqueous) Sampled: 08/14/17 12:39

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	2.10	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	106	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	X
Ethylbenzene	7.55	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.62	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	3.27	2.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/27/17 20:21	08/27/17 20:21	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101 %	80-120	08/27/17 20:21	08/27/17 20:21	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120	08/27/17 20:21	08/27/17 20:21	EPA 8260 B				
Surrogate: Dibromofluoromethane		112 %	80-120	08/27/17 20:21	08/27/17 20:21	EPA 8260 B				
Surrogate: Toluene-d8		101 %	80-120	08/27/17 20:21	08/27/17 20:21	EPA 8260 B				

Mountain Research, LLC

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Vennard Crossroads Convenience, Inc
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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-2BR

7080492-12 (Aqueous) Sampled: 08/14/17 11:29

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/27/17 18:35	08/27/17 18:35	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.8 %		80-120	08/27/17 18:35	08/27/17 18:35	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.4 %		80-120	08/27/17 18:35	08/27/17 18:35	EPA 8260 B				
Surrogate: Dibromofluoromethane	114 %		80-120	08/27/17 18:35	08/27/17 18:35	EPA 8260 B				
Surrogate: Toluene-d8	99.7 %		80-120	08/27/17 18:35	08/27/17 18:35	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-3BR

7080492-13 (Aqueous) Sampled: 08/14/17 10:34

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	9.46	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/27/17 19:02	08/27/17 19:02	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	08/27/17 19:02	08/27/17 19:02	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.6 %		80-120	08/27/17 19:02	08/27/17 19:02	EPA 8260 B				
Surrogate: Dibromofluoromethane	109 %		80-120	08/27/17 19:02	08/27/17 19:02	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	08/27/17 19:02	08/27/17 19:02	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

MW-4BR

7080492-14 (Aqueous) Sampled: 08/14/17 13:26

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/27/17 20:47	08/27/17 20:47	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	08/27/17 20:47	08/27/17 20:47	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.6 %		80-120	08/27/17 20:47	08/27/17 20:47	EPA 8260 B				
Surrogate: Dibromofluoromethane	113 %		80-120	08/27/17 20:47	08/27/17 20:47	EPA 8260 B				
Surrogate: Toluene-d8	99.9 %		80-120	08/27/17 20:47	08/27/17 20:47	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

EW-1

7080492-15 (Aqueous) Sampled: 08/14/17 12:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	275	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	84.2	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	171	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	93.3	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	14.7	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<10.0	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	49.2	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	191	10.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	536	30.0	µg/L	08/27/17 22:32	08/27/17 22:32	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	91.5 %	80-120		08/27/17 22:32	08/27/17 22:32	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.9 %	80-120		08/27/17 22:32	08/27/17 22:32	EPA 8260 B				
Surrogate: Dibromofluoromethane	113 %	80-120		08/27/17 22:32	08/27/17 22:32	EPA 8260 B				
Surrogate: Toluene-d8	100 %	80-120		08/27/17 22:32	08/27/17 22:32	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

EW-1BR

7080492-16 (Aqueous) Sampled: 08/14/17 14:18

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	343	50.0	µg/L	08/19/17 08:06	08/27/17 22:58	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	99.9	2.00	µg/L	08/19/17 08:06	08/19/17 08:06	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	2040	50.0	µg/L	08/19/17 08:06	08/27/17 22:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	375	50.0	µg/L	08/19/17 08:06	08/27/17 22:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	41.5	2.00	µg/L	08/19/17 08:06	08/19/17 08:06	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	19.0	2.00	µg/L	08/19/17 08:06	08/19/17 08:06	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	101	50.0	µg/L	08/19/17 08:06	08/27/17 22:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	827	50.0	µg/L	08/19/17 08:06	08/27/17 22:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	1490	150	µg/L	08/19/17 08:06	08/27/17 22:58	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	96.7 %		80-120	08/19/17 08:06	08/19/17 08:06	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	107 %		80-120	08/19/17 08:06	08/19/17 08:06	EPA 8260 B				
Surrogate: Dibromofluoromethane	87.0 %		80-120	08/19/17 08:06	08/19/17 08:06	EPA 8260 B				
Surrogate: Toluene-d8	95.6 %		80-120	08/19/17 08:06	08/19/17 08:06	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

Stream

7080492-17 (Aqueous) Sampled: 08/14/17 13:33

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/27/17 19:28	08/27/17 19:28	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	08/27/17 19:28	08/27/17 19:28	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.4 %		80-120	08/27/17 19:28	08/27/17 19:28	EPA 8260 B				
Surrogate: Dibromofluoromethane	114 %		80-120	08/27/17 19:28	08/27/17 19:28	EPA 8260 B				
Surrogate: Toluene-d8	99.8 %		80-120	08/27/17 19:28	08/27/17 19:28	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 7080492
Reported: 08/28/17 15:34

Duplicate

7080492-18 (Aqueous) Sampled: 08/14/17 00:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	9.23	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	08/23/17 00:43	08/23/17 00:43	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	111 %		80-120	08/23/17 00:43	08/23/17 00:43	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	88.9 %		80-120	08/23/17 00:43	08/23/17 00:43	EPA 8260 B				
Surrogate: Dibromofluoromethane	114 %		80-120	08/23/17 00:43	08/23/17 00:43	EPA 8260 B				
Surrogate: Toluene-d8	97.7 %		80-120	08/23/17 00:43	08/23/17 00:43	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

Page 20 of 24



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7080492
Reported:
08/28/17 15:34

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	10/31/2017
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2017

Notes and Definitions

X	The result is estimated because it was over the analysis calibration range.
Na	Matrix spike and matrix duplicate spike recovery was outside of the laboratory acceptance criteria.
N	Matrix duplicate spike recovery was outside of the laboratory acceptance criteria.
D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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Stephen Gampe, Assistant Laboratory Manager

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MOUNTAIN RESEARCH
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(814) 371-

825 25th Street, Altoona, PA 16601
110 McCracken Run Road, Dubois, PA 15801

CHAIN OF CUSTODY RECORD

Billing Group: Phase: SCR	PROJECT NAME Vennard's
MR Project # 4644.15.01	SITE LOCATION Indiana, PA
CLIENT Vennard's	SAMPLER(S) BA

NOTES:
Received On Ice Y / N
Sample Temp: 1.2
Comp Set
Comments:

SAMPLE ID	DATE	TIME	GRAB	COMP	MATRIX	NUMBER OF CONTAINERS	PRODUCT CODE	8260B											MR PROJ. MGR. MK
TRIP BLANK	8/14/2017	0730	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-1	8/14/2017	0939	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-2	8/14/2017	1450	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-3	8/14/2017	1400	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-4	8/14/2017	1159	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-5	8/14/2017	1408	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-6	8/14/2017	1110	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-7	8/14/2017	1144	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-8	8/14/2017	1208	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-9	8/14/2017	1307	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-1BR	8/14/2017	1239	X		AQ	2 40mL VOA	2A.4A	X											HCl
MW-2BR	8/14/2017	1129	X		AQ	2 40mL VOA	2A.4A	X											HCl

ACQUIRED BY: <u>Am</u>	DATE: 8/15/17	TIME: 1520	ACCEPTED BY: <u>[Signature]</u>	DATE/TIME: 8-15-17 1:5:20	Lab Workorder #: 7080492	Log In Time: 1443
ACQUIRED BY:	DATE:	TIME:	ACCEPTED BY:	DATE/TIME:	Labeled By:	Staff: K2
						Date: 8/16/17

[illegible]

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT: Uenna ds

DATE SAMPLED: 8/14/17

DATE RECEIVED: 8/10/17

TIME RECEIVED: 15:20



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 36

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMP: 12°C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: _____

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____

CLIENT SPOKEN TO: _____

DATE/TIME: _____

OUTCOME: _____

SIGNATURE: _____

ADP



**MOUNTAIN
RESEARCH, LLC**

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22 September 2017

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 7090191

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 09/08/17 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090191
Reported:
09/22/17 10:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	7090191-01	Aqueous	Grab	09/08/17 08:45	09/08/17 15:30
MW-11	7090191-02	Aqueous	Grab	09/08/17 13:50	09/08/17 15:30
MW-12	7090191-03	Aqueous	Grab	09/08/17 13:42	09/08/17 15:30
MW-SBR	7090191-04	Aqueous	Grab	09/08/17 13:00	09/08/17 15:30

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
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Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090191
Reported:
09/22/17 10:44

Trip Blank

7090191-01 (Aqueous) Sampled: 09/08/17 08:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/12/17 18:24	09/12/17 18:24	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	107 %		80-120	09/12/17 18:24	09/12/17 18:24	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.4 %		80-120	09/12/17 18:24	09/12/17 18:24	EPA 8260 B				
Surrogate: Dibromofluoromethane	113 %		80-120	09/12/17 18:24	09/12/17 18:24	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	09/12/17 18:24	09/12/17 18:24	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090191
Reported:
09/22/17 10:44

MW-11

7090191-02 (Aqueous) Sampled: 09/08/17 13:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/12/17 18:50	09/12/17 18:50	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		101 %	80-120	09/12/17 18:50	09/12/17 18:50	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		96.2 %	80-120	09/12/17 18:50	09/12/17 18:50	EPA 8260 B				
Surrogate: Dibromofluoromethane		117 %	80-120	09/12/17 18:50	09/12/17 18:50	EPA 8260 B				
Surrogate: Toluene-d8		99.4 %	80-120	09/12/17 18:50	09/12/17 18:50	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090191
Reported:
09/22/17 10:44

MW-12

7090191-03 (Aqueous) Sampled: 09/08/17 13:42

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/12/17 19:16	09/12/17 19:16	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	09/12/17 19:16	09/12/17 19:16	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.0 %		80-120	09/12/17 19:16	09/12/17 19:16	EPA 8260 B				
Surrogate: Dibromofluoromethane	116 %		80-120	09/12/17 19:16	09/12/17 19:16	EPA 8260 B				
Surrogate: Toluene-d8	99.8 %		80-120	09/12/17 19:16	09/12/17 19:16	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090191
Reported:
09/22/17 10:44

MW-5BR

7090191-04 (Aqueous) Sampled: 09/08/17 13:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	137	20.0	µg/L	09/12/17 19:42	09/13/17 18:05	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	11.5	2.00	µg/L	09/12/17 19:42	09/12/17 19:42	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	667	20.0	µg/L	09/12/17 19:42	09/13/17 18:05	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	217	20.0	µg/L	09/12/17 19:42	09/13/17 18:05	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	29.4	2.00	µg/L	09/12/17 19:42	09/12/17 19:42	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	14.4	2.00	µg/L	09/12/17 19:42	09/12/17 19:42	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	7.31	2.00	µg/L	09/12/17 19:42	09/12/17 19:42	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	25.4	2.00	µg/L	09/12/17 19:42	09/12/17 19:42	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	204	6.00	µg/L	09/12/17 19:42	09/12/17 19:42	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.6 %		80-120	09/12/17 19:42	09/12/17 19:42	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.7 %		80-120	09/12/17 19:42	09/12/17 19:42	EPA 8260 B				
Surrogate: Dibromofluoromethane	111 %		80-120	09/12/17 19:42	09/12/17 19:42	EPA 8260 B				
Surrogate: Toluene-d8	98.3 %		80-120	09/12/17 19:42	09/12/17 19:42	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090191
Reported:
09/22/17 10:44

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	10/31/2017
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2017

Notes and Definitions

D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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Page 7 of 9

[illegible]

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED:

DATE RECEIVED:

TIME RECEIVED:



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN:

3. NUMBER OF CONTAINERS RECEIVED: 8

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN:

5. RECEIVING TEMP: 82 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: 1

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN:

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN:

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN:

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN:

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN:

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS:

CLIENT SPOKEN TO:

DATE/TIME:

OUTCOME:

SIGNATURE:

L60.30.A r2 Sample Receipt Form

For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

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06 October 2017

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 7090610

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 09/22/17 08:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	7090610-01	Aqueous	Grab	09/20/17 17:00	09/22/17 08:15
MW-1	7090610-02	Aqueous	Grab	09/21/17 12:50	09/22/17 08:15
MW-2	7090610-03	Aqueous	Grab	09/21/17 13:35	09/22/17 08:15
MW-3	7090610-04	Aqueous	Grab	09/21/17 09:50	09/22/17 08:15
MW-4	7090610-05	Aqueous	Grab	09/21/17 11:27	09/22/17 08:15
MW-5	7090610-06	Aqueous	Grab	09/21/17 10:06	09/22/17 08:15
MW-6	7090610-07	Aqueous	Grab	09/21/17 10:24	09/22/17 08:15
MW-7	7090610-08	Aqueous	Grab	09/21/17 11:09	09/22/17 08:15
MW-8	7090610-09	Aqueous	Grab	09/21/17 11:36	09/22/17 08:15
MW-9	7090610-10	Aqueous	Grab	09/21/17 12:05	09/22/17 08:15
MW-11	7090610-11	Aqueous	Grab	09/21/17 14:55	09/22/17 08:15
MW-12	7090610-12	Aqueous	Grab	09/21/17 14:41	09/22/17 08:15
MW-1BR	7090610-13	Aqueous	Grab	09/21/17 11:59	09/22/17 08:15
MW-2BR	7090610-14	Aqueous	Grab	09/21/17 10:56	09/22/17 08:15
MW-3BR	7090610-15	Aqueous	Grab	09/21/17 09:43	09/22/17 08:15
MW-4BR	7090610-16	Aqueous	Grab	09/21/17 12:24	09/22/17 08:15
MW-5BR	7090610-17	Aqueous	Grab	09/21/17 14:15	09/22/17 08:15
Stream	7090610-18	Aqueous	Grab	09/21/17 12:44	09/22/17 08:15
Duplicate	7090610-19	Aqueous	Grab	09/21/17 00:00	09/22/17 08:15

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Stephen Gampe, Assistant Laboratory Manager

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Fax (304) 930-1975

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

Trip Blank

7090610-01 (Aqueous) Sampled: 09/20/17 17:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/27/17 18:40	09/27/17 18:40	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	95.5 %		80-120	09/27/17 18:40	09/27/17 18:40	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.8 %		80-120	09/27/17 18:40	09/27/17 18:40	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.1 %		80-120	09/27/17 18:40	09/27/17 18:40	EPA 8260 B				
Surrogate: Toluene-d8	99.7 %		80-120	09/27/17 18:40	09/27/17 18:40	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-1

7090610-02 (Aqueous) Sampled: 09/21/17 12:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/27/17 19:06	09/27/17 19:06	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	93.8 %		80-120	09/27/17 19:06	09/27/17 19:06	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.8 %		80-120	09/27/17 19:06	09/27/17 19:06	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.0 %		80-120	09/27/17 19:06	09/27/17 19:06	EPA 8260 B				
Surrogate: Toluene-d8	98.3 %		80-120	09/27/17 19:06	09/27/17 19:06	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-2

7090610-03 (Aqueous) Sampled: 09/21/17 13:35

Analytic	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1030	50.0	µg/L	09/27/17 19:32	09/27/17 19:58	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	358	10.0	µg/L	09/27/17 19:32	09/27/17 19:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	779	50.0	µg/L	09/27/17 19:32	09/27/17 19:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	522	50.0	µg/L	09/27/17 19:32	09/27/17 19:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	74.4	10.0	µg/L	09/27/17 19:32	09/27/17 19:32	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<10.0	10.0	µg/L	09/27/17 19:32	09/27/17 19:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	297	10.0	µg/L	09/27/17 19:32	09/27/17 19:32	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	1090	50.0	µg/L	09/27/17 19:32	09/27/17 19:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	2510	150	µg/L	09/27/17 19:32	09/27/17 19:58	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	96.9 %	80-120		09/27/17 19:32	09/27/17 19:32	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %	80-120		09/27/17 19:32	09/27/17 19:32	EPA 8260 B				
Surrogate: Dibromofluoromethane	96.0 %	80-120		09/27/17 19:32	09/27/17 19:32	EPA 8260 B				
Surrogate: Toluene-d8	99.3 %	80-120		09/27/17 19:32	09/27/17 19:32	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-3

7090610-04 (Aqueous) Sampled: 09/21/17 09:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 01:41	09/28/17 01:41	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	97.0 %		80-120	09/28/17 01:41	09/28/17 01:41	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.4 %		80-120	09/28/17 01:41	09/28/17 01:41	EPA 8260 B				
Surrogate: Dibromofluoromethane	105 %		80-120	09/28/17 01:41	09/28/17 01:41	EPA 8260 B				
Surrogate: Toluene-d8	98.2 %		80-120	09/28/17 01:41	09/28/17 01:41	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-4

7090610-05 (Aqueous) Sampled: 09/21/17 11:27

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	16.0	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	10.8	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 13:06	09/28/17 13:06	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	97.7 %		80-120	09/28/17 13:06	09/28/17 13:06	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.8 %		80-120	09/28/17 13:06	09/28/17 13:06	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.9 %		80-120	09/28/17 13:06	09/28/17 13:06	EPA 8260 B				
Surrogate: Toluene-d8	99.6 %		80-120	09/28/17 13:06	09/28/17 13:06	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-5

7090610-06 (Aqueous) Sampled: 09/21/17 10:06

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.30	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 02:07	09/28/17 02:07	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.5 %		80-120	09/28/17 02:07	09/28/17 02:07	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.7 %		80-120	09/28/17 02:07	09/28/17 02:07	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	09/28/17 02:07	09/28/17 02:07	EPA 8260 B				
Surrogate: Toluene-d8	99.8 %		80-120	09/28/17 02:07	09/28/17 02:07	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-6

7090610-07 (Aqueous) Sampled: 09/21/17 10:24

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 02:33	09/28/17 02:33	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	09/28/17 02:33	09/28/17 02:33	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.1 %		80-120	09/28/17 02:33	09/28/17 02:33	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	09/28/17 02:33	09/28/17 02:33	EPA 8260 B				
Surrogate: Toluene-d8	98.1 %		80-120	09/28/17 02:33	09/28/17 02:33	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-7

7090610-08 (Aqueous) Sampled: 09/21/17 11:09

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	4.99	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	95.3	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	29.5	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	2.62	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.59	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	12.1	2.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	7.69	6.00	µg/L	09/28/17 03:00	09/28/17 03:00	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	95.2 %		80-120	09/28/17 03:00	09/28/17 03:00	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.0 %		80-120	09/28/17 03:00	09/28/17 03:00	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %		80-120	09/28/17 03:00	09/28/17 03:00	EPA 8260 B				
Surrogate: Toluene-d8	98.3 %		80-120	09/28/17 03:00	09/28/17 03:00	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-8

7090610-09 (Aqueous) Sampled: 09/21/17 11:36

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1050	100	µg/L	09/28/17 03:26	09/28/17 03:52	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	208	20.0	µg/L	09/28/17 03:26	09/28/17 03:26	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	4010	100	µg/L	09/28/17 03:26	09/28/17 03:52	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	930	20.0	µg/L	09/28/17 03:26	09/28/17 03:26	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	70.8	20.0	µg/L	09/28/17 03:26	09/28/17 03:26	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	27.2	20.0	µg/L	09/28/17 03:26	09/28/17 03:26	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	610	100	µg/L	09/28/17 03:26	09/28/17 19:38	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	2210	100	µg/L	09/28/17 03:26	09/28/17 03:52	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	4630	300	µg/L	09/28/17 03:26	09/28/17 03:52	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	94.4 %	80-120		09/28/17 03:26	09/28/17 03:26	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.6 %	80-120		09/28/17 03:26	09/28/17 03:26	EPA 8260 B				
Surrogate: Dibromofluoromethane	96.7 %	80-120		09/28/17 03:26	09/28/17 03:26	EPA 8260 B				
Surrogate: Toluene-d8	101 %	80-120		09/28/17 03:26	09/28/17 03:26	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-9

7090610-10 (Aqueous) Sampled: 09/21/17 12:05

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	35.2	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	4.54	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	75.3	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	2.30	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	6.37	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	6.62	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	7.75	2.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	77.1	6.00	µg/L	09/28/17 13:32	09/28/17 13:32	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	99.0 %		80-120	09/28/17 13:32	09/28/17 13:32	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.8 %		80-120	09/28/17 13:32	09/28/17 13:32	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.7 %		80-120	09/28/17 13:32	09/28/17 13:32	EPA 8260 B				
Surrogate: Toluene-d8	98.3 %		80-120	09/28/17 13:32	09/28/17 13:32	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-11

7090610-11 (Aqueous) Sampled: 09/21/17 14:55

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 04:18	09/28/17 04:18	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	98.0 %		80-120	09/28/17 04:18	09/28/17 04:18	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.2 %		80-120	09/28/17 04:18	09/28/17 04:18	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %		80-120	09/28/17 04:18	09/28/17 04:18	EPA 8260 B				
Surrogate: Toluene-d8	98.4 %		80-120	09/28/17 04:18	09/28/17 04:18	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-12

7090610-12 (Aqueous) Sampled: 09/21/17 14:41

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 04:45	09/28/17 04:45	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	09/28/17 04:45	09/28/17 04:45	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.6 %		80-120	09/28/17 04:45	09/28/17 04:45	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	09/28/17 04:45	09/28/17 04:45	EPA 8260 B				
Surrogate: Toluene-d8	97.7 %		80-120	09/28/17 04:45	09/28/17 04:45	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 7090610
Reported: 10/06/17 15:27

MW-1BR

7090610-13 (Aqueous) Sampled: 09/21/17 11:59

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	2.72	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	73.8	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	7.11	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	2.04	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.56	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	2.45	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 13:58	09/28/17 13:58	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	95.8 %		80-120	09/28/17 13:58	09/28/17 13:58	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.9 %		80-120	09/28/17 13:58	09/28/17 13:58	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.0 %		80-120	09/28/17 13:58	09/28/17 13:58	EPA 8260 B				
Surrogate: Toluene-d8	97.8 %		80-120	09/28/17 13:58	09/28/17 13:58	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-2BR

7090610-14 (Aqueous) Sampled: 09/21/17 10:56

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 05:11	09/28/17 05:11	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	09/28/17 05:11	09/28/17 05:11	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.0 %		80-120	09/28/17 05:11	09/28/17 05:11	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	09/28/17 05:11	09/28/17 05:11	EPA 8260 B				
Surrogate: Toluene-d8	98.5 %		80-120	09/28/17 05:11	09/28/17 05:11	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-3BR

7090610-15 (Aqueous) Sampled: 09/21/17 09:43

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	8.08	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 05:37	09/28/17 05:37	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		104 %	80-120	09/28/17 05:37	09/28/17 05:37	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		97.4 %	80-120	09/28/17 05:37	09/28/17 05:37	EPA 8260 B				
Surrogate: Dibromofluoromethane		102 %	80-120	09/28/17 05:37	09/28/17 05:37	EPA 8260 B				
Surrogate: Toluene-d8		100 %	80-120	09/28/17 05:37	09/28/17 05:37	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-4BR

7090610-16 (Aqueous) Sampled: 09/21/17 12:24

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 06:03	09/28/17 06:03	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	09/28/17 06:03	09/28/17 06:03	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.7 %		80-120	09/28/17 06:03	09/28/17 06:03	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.6 %		80-120	09/28/17 06:03	09/28/17 06:03	EPA 8260 B				
Surrogate: Toluene-d8	97.9 %		80-120	09/28/17 06:03	09/28/17 06:03	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

MW-5BR

7090610-17 (Aqueous) Sampled: 09/21/17 14:15

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	529	50.0	µg/L	09/28/17 08:41	09/28/17 14:51	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	72.8	50.0	µg/L	09/28/17 08:41	09/28/17 14:51	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	1030	50.0	µg/L	09/28/17 08:41	09/28/17 14:51	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	503	50.0	µg/L	09/28/17 08:41	09/28/17 14:51	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	61.8	2.00	µg/L	09/28/17 08:41	09/28/17 08:41	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	12.0	2.00	µg/L	09/28/17 08:41	09/28/17 08:41	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	75.4	50.0	µg/L	09/28/17 08:41	09/28/17 14:51	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	254	50.0	µg/L	09/28/17 08:41	09/28/17 14:51	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	1150	150	µg/L	09/28/17 08:41	09/28/17 14:51	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	93.4 %	80-120		09/28/17 08:41	09/28/17 08:41	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	104 %	80-120		09/28/17 08:41	09/28/17 08:41	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.0 %	80-120		09/28/17 08:41	09/28/17 08:41	EPA 8260 B				
Surrogate: Toluene-d8	100 %	80-120		09/28/17 08:41	09/28/17 08:41	EPA 8260 B				

Mountain Research, LLC

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Fax (304) 930-1975

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

Stream

7090610-18 (Aqueous) Sampled: 09/21/17 12:44

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	L
Toluene	<2.00	2.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	09/28/17 06:30	09/28/17 06:30	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	100 %		80-120	09/28/17 06:30	09/28/17 06:30	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.2 %		80-120	09/28/17 06:30	09/28/17 06:30	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	09/28/17 06:30	09/28/17 06:30	EPA 8260 B				
Surrogate: Toluene-d8	99.2 %		80-120	09/28/17 06:30	09/28/17 06:30	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

Duplicate

7090610-19 (Aqueous) Sampled: 09/21/17 00:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1300	50.0	µg/L	09/28/17 06:56	09/28/17 15:17	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	374	50.0	µg/L	09/28/17 06:56	09/28/17 15:17	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	753	50.0	µg/L	09/28/17 06:56	09/28/17 15:17	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	553	50.0	µg/L	09/28/17 06:56	09/28/17 15:17	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	75.0	2.00	µg/L	09/28/17 06:56	09/28/17 06:56	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	10.2	2.00	µg/L	09/28/17 06:56	09/28/17 06:56	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	313	50.0	µg/L	09/28/17 06:56	09/28/17 15:17	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	1070	50.0	µg/L	09/28/17 06:56	09/28/17 15:17	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	2620	150	µg/L	09/28/17 06:56	09/28/17 15:17	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	95.8 %		80-120	09/28/17 06:56	09/28/17 06:56	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	106 %		80-120	09/28/17 06:56	09/28/17 06:56	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.8 %		80-120	09/28/17 06:56	09/28/17 06:56	EPA 8260 B				
Surrogate: Toluene-d8	99.7 %		80-120	09/28/17 06:56	09/28/17 06:56	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
7090610
Reported:
10/06/17 15:27

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2017
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	10/31/2017
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2017
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2017

Notes and Definitions

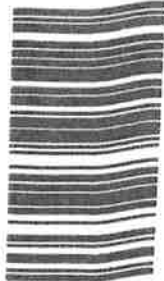
L	The laboratory control spike did not meet laboratory acceptance criteria. The associated analytical results may be biased high.
D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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Stephen Gampe, Assistant Laboratory Manager

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MOUNTAIN RESEARCH LLC

825 25th Street, Altoona, PA 16601

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(814) 371-6030 Fax (8

CHAIN OF CUSTODY RECORD

Billing Group:	Phase:	PROJECT NAME
MR Project #	SCR	Vennard's
4644.15.01		SITE LOCATION
CLIENT	Vennard's	Indiana, PA
NOTES:		SAMPLER(S)
		BA

Received On loc (Y) / N
Sample Temp: 24°C
Comp Set _____
Comments: _____

SAMPLE ID	DATE	TIME	GRAB	COMP MATRIX
TRIP BLANK	9/20/7	1700	X	AQ 2
MW-1	9/21/7	1250	X	AQ 2
MW-2		1335	X	AQ 2
MW-3		0950	X	AQ 2
MW-4		1127	X	AQ 2
MW-5		1006	X	AQ 2
MW-6		1024	X	AQ 2
MW-7		1109	X	AQ 2
MW-8		1136	X	AQ 2
MW-9		1205	X	AQ 2
MW-11		1255	X	AQ 2
MW-12		1441	X	AQ 2

RELINQUISHED BY:

DATE
9/22/17

ACCEPTED BY:

ACQUISISHED BY:

DATE
9/22/17

ACCEPTED BY:

Page 23 of 25

Billing Group: Phase: SCR		PROJECT NAME		Vennard's	
MR Project # 4644.15.01		SITE LOCATION		Indiana, PA	
CLIENT		Vennard's		SAMPLER(S) BA	
NOTES: Received On Ice: 2.4 Sample Temp: Comp Set Comments:					
SAMPLE ID	DATE	TIME	GRAB	COMP	MATRIX
MW-1BR	9/21/17	1159	X		AQ
MW-2BR	1096		X		AQ
MW-3BR	0943		X		AQ
MW-4BR	1224		X		AQ
MW-5BR	1415		X		AQ
Stream	1244		X		AQ
Duplicate			X		AQ

MOUNTAIN RESEARCH LLC		825 25th Street, Altoona, PA 16601		(814) 949-2034 (800) 837-4674 FAX (814) 949-9591	
		110 McCracken Run Road, Dubois, PA 15801		(814) 371-6030 Fax (814) 375-0823	
CHAIN OF CUSTODY RECORD					
NUMBER OF CONTAINERS		PRODUCT CODE		8260B	
DATE/TIME		DATE/TIME		DATE/TIME	
08:15		9-22-17		9-22-17	
ACCEPTED BY: [Signature]		ACCEPTED BY: [Signature]		ACCEPTED BY: [Signature]	
TIME 0815		TIME		TIME	
DATE 9/21/17		DATE		DATE	
INQUIRED BY: [Signature]		INQUIRED BY: [Signature]		INQUIRED BY: [Signature]	
LAB WORKORDER #:		LAB WORKORDER #:		LAB WORKORDER #:	
7690610		7690610		7690610	
Log In Time:		Log In Time:		Log In Time:	
1454		1454		1454	
Staff:		Staff:		Staff:	
hd		hd		hd	
Date:		Date:		Date:	
9-25-17		9-25-17		9-25-17	

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED: 9-21-17

DATE RECEIVED: 9-22-17

TIME RECEIVED: 08:15



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN: _____

3. NUMBER OF CONTAINERS RECEIVED: 38

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN: _____

5. RECEIVING TEMP: 27 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: _____

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN: _____

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN: _____

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN: _____

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN: _____

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN: _____

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES? _____

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS: _____

CLIENT SPOKEN TO: _____

DATE/TIME: _____

OUTCOME: _____

SIGNATURE: _____

L60.30.A r2 Sample Receipt Form

For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

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Fax (304) 930-1975

03 April 2018

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 8030679

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 03/23/18 07:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	8030679-01	Aqueous	Grab	03/21/18 10:00	03/23/18 07:30
EW-1	8030679-02	Aqueous	Grab	03/22/18 13:10	03/23/18 07:30
MW-1	8030679-03	Aqueous	Grab	03/22/18 12:50	03/23/18 07:30
MW-3	8030679-04	Aqueous	Grab	03/22/18 08:45	03/23/18 07:30
MW-4	8030679-05	Aqueous	Grab	03/21/18 17:45	03/23/18 07:30
MW-5	8030679-06	Aqueous	Grab	03/21/18 18:46	03/23/18 07:30
MW-6	8030679-07	Aqueous	Grab	03/22/18 09:30	03/23/18 07:30
MW-7	8030679-08	Aqueous	Grab	03/22/18 11:25	03/23/18 07:30
MW-8	8030679-09	Aqueous	Grab	03/21/18 17:00	03/23/18 07:30
MW-9	8030679-10	Aqueous	Grab	03/21/18 17:25	03/23/18 07:30
MW-10	8030679-11	Aqueous	Grab	03/22/18 15:25	03/23/18 07:30
MW-11	8030679-12	Aqueous	Grab	03/22/18 10:20	03/23/18 07:30
MW-12	8030679-13	Aqueous	Grab	03/22/18 09:55	03/23/18 07:30
MW-13	8030679-14	Aqueous	Grab	03/22/18 11:45	03/23/18 07:30
MW-14	8030679-15	Aqueous	Grab	03/22/18 14:10	03/23/18 07:30
MW-1BR	8030679-16	Aqueous	Grab	03/21/18 16:55	03/23/18 07:30
MW-3BR	8030679-17	Aqueous	Grab	03/21/18 18:30	03/23/18 07:30
MW-4BR	8030679-18	Aqueous	Grab	03/21/18 17:20	03/23/18 07:30
MW-5BR	8030679-19	Aqueous	Grab	03/22/18 10:55	03/23/18 07:30
MW-6BR	8030679-20	Aqueous	Grab	03/22/18 15:50	03/23/18 07:30
MW-7BR	8030679-21	Aqueous	Grab	03/22/18 14:45	03/23/18 07:30
MW-8BR	8030679-22	Aqueous	Grab	03/22/18 15:00	03/23/18 07:30
MW-9BR	8030679-23	Aqueous	Grab	03/22/18 13:40	03/23/18 07:30

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

Trip Blank

8030679-01 (Aqueous) Sampled: 03/21/18 10:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/24/18 11:31	03/24/18 11:31	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	98.4 %		80-120	03/24/18 11:31	03/24/18 11:31	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.0 %		80-120	03/24/18 11:31	03/24/18 11:31	EPA 8260 B				
Surrogate: Dibromofluoromethane	93.1 %		80-120	03/24/18 11:31	03/24/18 11:31	EPA 8260 B				
Surrogate: Toluene-d8	95.4 %		80-120	03/24/18 11:31	03/24/18 11:31	EPA 8260 B				

Mountain Research, LLC

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Fax (304) 930-1975

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

EW-1

8030679-02 (Aqueous) Sampled: 03/22/18 13:10

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	67.1	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	12.6	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	113	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	24.9	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	<10.0	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<10.0	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	23.4	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	17.0	10.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	103	30.0	µg/L	03/27/18 21:58	03/27/18 21:58	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	93.0 %		80-120	03/27/18 21:58	03/27/18 21:58	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %		80-120	03/27/18 21:58	03/27/18 21:58	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.6 %		80-120	03/27/18 21:58	03/27/18 21:58	EPA 8260 B				
Surrogate: Toluene-d8	96.6 %		80-120	03/27/18 21:58	03/27/18 21:58	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-1

8030679-03 (Aqueous) Sampled: 03/22/18 12:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/24/18 11:57	03/24/18 11:57	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	03/24/18 11:57	03/24/18 11:57	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.4 %		80-120	03/24/18 11:57	03/24/18 11:57	EPA 8260 B				
Surrogate: Dibromofluoromethane	94.2 %		80-120	03/24/18 11:57	03/24/18 11:57	EPA 8260 B				
Surrogate: Toluene-d8	96.0 %		80-120	03/24/18 11:57	03/24/18 11:57	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-3

8030679-04 (Aqueous) Sampled: 03/22/18 08:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/24/18 12:23	03/24/18 12:23	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	03/24/18 12:23	03/24/18 12:23	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.0 %		80-120	03/24/18 12:23	03/24/18 12:23	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.7 %		80-120	03/24/18 12:23	03/24/18 12:23	EPA 8260 B				
Surrogate: Toluene-d8	94.4 %		80-120	03/24/18 12:23	03/24/18 12:23	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-4

8030679-05 (Aqueous) Sampled: 03/21/18 17:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	90.2	20.0	µg/L	03/27/18 07:49	03/27/18 23:16	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	15.4	2.00	µg/L	03/27/18 07:49	03/27/18 07:49	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	131	20.0	µg/L	03/27/18 07:49	03/27/18 23:16	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	106	2.00	µg/L	03/27/18 07:49	03/27/18 07:49	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	5.09	2.00	µg/L	03/27/18 07:49	03/27/18 07:49	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 07:49	03/27/18 07:49	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	18.7	2.00	µg/L	03/27/18 07:49	03/27/18 07:49	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	10.7	2.00	µg/L	03/27/18 07:49	03/27/18 07:49	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	205	60.0	µg/L	03/27/18 07:49	03/27/18 23:16	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	95.3 %		80-120	03/27/18 07:49	03/27/18 07:49	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	103 %		80-120	03/27/18 07:49	03/27/18 07:49	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.7 %		80-120	03/27/18 07:49	03/27/18 07:49	EPA 8260 B				
Surrogate: Toluene-d8	95.8 %		80-120	03/27/18 07:49	03/27/18 07:49	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-5

8030679-06 (Aqueous) Sampled: 03/21/18 18:46

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 08:15	03/27/18 08:15	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	98.4 %		80-120	03/27/18 08:15	03/27/18 08:15	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.5 %		80-120	03/27/18 08:15	03/27/18 08:15	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.6 %		80-120	03/27/18 08:15	03/27/18 08:15	EPA 8260 B				
Surrogate: Toluene-d8	95.6 %		80-120	03/27/18 08:15	03/27/18 08:15	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-6

8030679-07 (Aqueous) Sampled: 03/22/18 09:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.20	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 08:41	03/27/18 08:41	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	94.1 %		80-120	03/27/18 08:41	03/27/18 08:41	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %		80-120	03/27/18 08:41	03/27/18 08:41	EPA 8260 B				
Surrogate: Dibromofluoromethane	94.7 %		80-120	03/27/18 08:41	03/27/18 08:41	EPA 8260 B				
Surrogate: Toluene-d8	96.8 %		80-120	03/27/18 08:41	03/27/18 08:41	EPA 8260 B				

Mountain Research, LLC

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-7

8030679-08 (Aqueous) Sampled: 03/22/18 11:25

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 10:51	03/27/18 10:51	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.8 %		80-120	03/27/18 10:51	03/27/18 10:51	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %		80-120	03/27/18 10:51	03/27/18 10:51	EPA 8260 B				
Surrogate: Dibromofluoromethane	96.4 %		80-120	03/27/18 10:51	03/27/18 10:51	EPA 8260 B				
Surrogate: Toluene-d8	96.7 %		80-120	03/27/18 10:51	03/27/18 10:51	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-8

8030679-09 (Aqueous) Sampled: 03/21/18 17:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
Mountain Research, LLC										
Volatile Organic Compounds by GC/MS										
1,2,4-Trimethylbenzene	17.8	2.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	96.4	20.0	µg/L	03/27/18 09:07	03/27/18 09:07	EPA 5030B	EPA 8260 B	A	JMG	DI
Ethylbenzene	18.0	2.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	4.66	2.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	43.2	6.00	µg/L	03/27/18 09:07	03/27/18 22:50	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	94.5 %		80-120	03/27/18 09:07	03/27/18 09:07	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.5 %		80-120	03/27/18 09:07	03/27/18 09:07	EPA 8260 B				
Surrogate: Dibromofluoromethane	90.6 %		80-120	03/27/18 09:07	03/27/18 09:07	EPA 8260 B				
Surrogate: Toluene-d8	96.0 %		80-120	03/27/18 09:07	03/27/18 09:07	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-9

8030679-10 (Aqueous) Sampled: 03/21/18 17:25

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 11:17	03/27/18 11:17	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	99.4 %		80-120	03/27/18 11:17	03/27/18 11:17	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.2 %		80-120	03/27/18 11:17	03/27/18 11:17	EPA 8260 B				
Surrogate: Dibromofluoromethane	88.2 %		80-120	03/27/18 11:17	03/27/18 11:17	EPA 8260 B				
Surrogate: Toluene-d8	98.3 %		80-120	03/27/18 11:17	03/27/18 11:17	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-10

8030679-11 (Aqueous) Sampled: 03/22/18 15:25

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	73.3	20.0	µg/L	03/27/18 17:10	03/30/18 03:47	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	39.5	2.00	µg/L	03/27/18 17:10	03/27/18 17:10	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	290	20.0	µg/L	03/27/18 17:10	03/30/18 03:47	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	134	20.0	µg/L	03/27/18 17:10	03/30/18 03:47	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	19.5	2.00	µg/L	03/27/18 17:10	03/27/18 17:10	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.08	2.00	µg/L	03/27/18 17:10	03/27/18 17:10	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	20.4	2.00	µg/L	03/27/18 17:10	03/27/18 17:10	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	29.7	2.00	µg/L	03/27/18 17:10	03/27/18 17:10	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	167	6.00	µg/L	03/27/18 17:10	03/27/18 17:10	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.2 %		80-120	03/27/18 17:10	03/27/18 17:10	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	104 %		80-120	03/27/18 17:10	03/27/18 17:10	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.1 %		80-120	03/27/18 17:10	03/27/18 17:10	EPA 8260 B				
Surrogate: Toluene-d8	97.5 %		80-120	03/27/18 17:10	03/27/18 17:10	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-11

8030679-12 (Aqueous) Sampled: 03/22/18 10:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 16:44	03/27/18 16:44	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	90.4 %		80-120	03/27/18 16:44	03/27/18 16:44	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.6 %		80-120	03/27/18 16:44	03/27/18 16:44	EPA 8260 B				
Surrogate: Dibromofluoromethane	94.1 %		80-120	03/27/18 16:44	03/27/18 16:44	EPA 8260 B				
Surrogate: Toluene-d8	96.4 %		80-120	03/27/18 16:44	03/27/18 16:44	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-12

8030679-13 (Aqueous) Sampled: 03/22/18 09:55

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/30/18 02:29	03/30/18 02:29	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	102 %		80-120	03/30/18 02:29	03/30/18 02:29	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.9 %		80-120	03/30/18 02:29	03/30/18 02:29	EPA 8260 B				
Surrogate: Dibromofluoromethane	104 %		80-120	03/30/18 02:29	03/30/18 02:29	EPA 8260 B				
Surrogate: Toluene-d8	97.1 %		80-120	03/30/18 02:29	03/30/18 02:29	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-13

8030679-14 (Aqueous) Sampled: 03/22/18 11:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 18:02	03/27/18 18:02	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	99.0 %		80-120	03/27/18 18:02	03/27/18 18:02	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	99.6 %		80-120	03/27/18 18:02	03/27/18 18:02	EPA 8260 B				
Surrogate: Dibromofluoromethane	94.8 %		80-120	03/27/18 18:02	03/27/18 18:02	EPA 8260 B				
Surrogate: Toluene-d8	97.6 %		80-120	03/27/18 18:02	03/27/18 18:02	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-14

8030679-15 (Aqueous) Sampled: 03/22/18 14:10

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	943	100	µg/L	03/27/18 18:28	03/30/18 04:13	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	215	100	µg/L	03/27/18 18:28	03/30/18 04:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	4700	100	µg/L	03/27/18 18:28	03/30/18 04:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	927	100	µg/L	03/27/18 18:28	03/30/18 04:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	87.3	2.00	µg/L	03/27/18 18:28	03/27/18 18:28	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	58.0	2.00	µg/L	03/27/18 18:28	03/27/18 18:28	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	164	100	µg/L	03/27/18 18:28	03/30/18 04:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	2810	100	µg/L	03/27/18 18:28	03/30/18 04:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	3560	300	µg/L	03/27/18 18:28	03/30/18 04:13	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	91.6 %		80-120	03/27/18 18:28	03/27/18 18:28	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	112 %		80-120	03/27/18 18:28	03/27/18 18:28	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.6 %		80-120	03/27/18 18:28	03/27/18 18:28	EPA 8260 B				
Surrogate: Toluene-d8	97.9 %		80-120	03/27/18 18:28	03/27/18 18:28	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-1BR

8030679-16 (Aqueous) Sampled: 03/21/18 16:55

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	2.13	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	102	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	X
Ethylbenzene	4.01	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/30/18 02:55	03/30/18 02:55	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	95.0 %		80-120	03/30/18 02:55	03/30/18 02:55	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.0 %		80-120	03/30/18 02:55	03/30/18 02:55	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	03/30/18 02:55	03/30/18 02:55	EPA 8260 B				
Surrogate: Toluene-d8	97.6 %		80-120	03/30/18 02:55	03/30/18 02:55	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-3BR

8030679-17 (Aqueous) Sampled: 03/21/18 18:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.98	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/30/18 03:21	03/30/18 03:21	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	03/30/18 03:21	03/30/18 03:21	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.7 %		80-120	03/30/18 03:21	03/30/18 03:21	EPA 8260 B				
Surrogate: Dibromofluoromethane	100 %		80-120	03/30/18 03:21	03/30/18 03:21	EPA 8260 B				
Surrogate: Toluene-d8	97.4 %		80-120	03/30/18 03:21	03/30/18 03:21	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

Page 19 of 29



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-4BR

8030679-18 (Aqueous) Sampled: 03/21/18 17:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	6.85	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	2.53	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	46.2	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	8.48	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	3.32	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	52.9	2.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	51.1	6.00	µg/L	03/27/18 19:46	03/27/18 19:46	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	90.4 %		80-120	03/27/18 19:46	03/27/18 19:46	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	104 %		80-120	03/27/18 19:46	03/27/18 19:46	EPA 8260 B				
Surrogate: Dibromofluoromethane	90.4 %		80-120	03/27/18 19:46	03/27/18 19:46	EPA 8260 B				
Surrogate: Toluene-d8	94.8 %		80-120	03/27/18 19:46	03/27/18 19:46	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-5BR

8030679-19 (Aqueous) Sampled: 03/22/18 10:55

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	948	50.0	µg/L	03/27/18 09:59	03/27/18 10:25	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	219	10.0	µg/L	03/27/18 09:59	03/27/18 09:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	1300	50.0	µg/L	03/27/18 09:59	03/27/18 10:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	809	50.0	µg/L	03/27/18 09:59	03/27/18 10:25	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	86.8	10.0	µg/L	03/27/18 09:59	03/27/18 09:59	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<10.0	10.0	µg/L	03/27/18 09:59	03/27/18 09:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	148	10.0	µg/L	03/27/18 09:59	03/27/18 09:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	135	10.0	µg/L	03/27/18 09:59	03/27/18 09:59	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	1720	22.0	µg/L	03/27/18 09:59	03/27/18 10:25	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	90.1 %		80-120	03/27/18 09:59	03/27/18 09:59	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	103 %		80-120	03/27/18 09:59	03/27/18 09:59	EPA 8260 B				
Surrogate: Dibromofluoromethane	90.1 %		80-120	03/27/18 09:59	03/27/18 09:59	EPA 8260 B				
Surrogate: Toluene-d8	97.1 %		80-120	03/27/18 09:59	03/27/18 09:59	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-6BR

8030679-20 (Aqueous) Sampled: 03/22/18 15:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 20:13	03/27/18 20:13	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	94.6 %		80-120	03/27/18 20:13	03/27/18 20:13	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	102 %		80-120	03/27/18 20:13	03/27/18 20:13	EPA 8260 B				
Surrogate: Dibromofluoromethane	88.5 %		80-120	03/27/18 20:13	03/27/18 20:13	EPA 8260 B				
Surrogate: Toluene-d8	95.7 %		80-120	03/27/18 20:13	03/27/18 20:13	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-7BR

8030679-21 (Aqueous) Sampled: 03/22/18 14:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 20:39	03/27/18 20:39	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	97.7 %		80-120	03/27/18 20:39	03/27/18 20:39	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	100 %		80-120	03/27/18 20:39	03/27/18 20:39	EPA 8260 B				
Surrogate: Dibromofluoromethane	89.1 %		80-120	03/27/18 20:39	03/27/18 20:39	EPA 8260 B				
Surrogate: Toluene-d8	95.3 %		80-120	03/27/18 20:39	03/27/18 20:39	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#: 8030679
Reported: 04/03/18 14:20

MW-8BR

8030679-22 (Aqueous) Sampled: 03/22/18 15:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	03/27/18 21:05	03/27/18 21:05	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	91.8 %		80-120	03/27/18 21:05	03/27/18 21:05	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	101 %		80-120	03/27/18 21:05	03/27/18 21:05	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.6 %		80-120	03/27/18 21:05	03/27/18 21:05	EPA 8260 B				
Surrogate: Toluene-d8	95.5 %		80-120	03/27/18 21:05	03/27/18 21:05	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

MW-9BR

8030679-23 (Aqueous) Sampled: 03/22/18 13:40

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	5.37	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	6.74	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	2.73	2.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	12.1	6.00	µg/L	03/27/18 21:31	03/27/18 21:31	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	90.9 %	80-120		03/27/18 21:31	03/27/18 21:31	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	103 %	80-120		03/27/18 21:31	03/27/18 21:31	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.0 %	80-120		03/27/18 21:31	03/27/18 21:31	EPA 8260 B				
Surrogate: Toluene-d8	97.8 %	80-120		03/27/18 21:31	03/27/18 21:31	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8030679
Reported:
04/03/18 14:20

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

X	The result is estimated because it was over the analysis calibration range.
D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

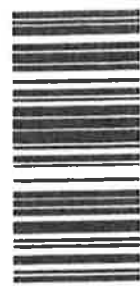
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Page 26 of 29

BALL POINT PEN ONLY



Billing Group: Phase: PROJECT NAME
 MR Project # 4644.65.01 SITE LOCATION Indian PA
 CLIENT Vennards
 825 25th Street, Altoona, PA 16601 (814) 949-2034 (800) 837
 110 McCracken Run Road, Dubois, PA 15801 (814) 371-6030 Fax (814)

CHAIN OF CUSTODY RECORD

Analyses Requested				MR PROJ. MGR. <i>m/k</i>	
Product Code				Shipping Carrier:	
Number of Containers				Turn Around Time:	
DATE				10 Day	
DATE				3 Day	
DATE				1 Day	
Comments:					
TRIP Blank	7-21-18	10:00	X	44	01
EW-1	7-22-18	13:10			02
MW-1	7-22-18	12:50			03
MW-3	7-22-18	8:45			04
MW-4	7-21-18	17:45			05
MW-5	7-21-18	18:46			06
MW-6	7-22-18	9:30			07
MW-7	7-22-18	11:25			08
MW-8	7-21-18	17:00			09
MW-9	7-21-18	17:25			10
MW-10	7-22-18	15:25			11
MW-11	7-22-18	10:20			12

RELINQUISHED BY: <i>Jan</i>	DATE: 8-22-18	TIME: 17:38	ACCEPTED BY: <i>[Signature]</i>	DATE: 8-23-18	TIME: 07:30	Lab WO #: 8030679	Log In Time: 1102
RELINQUISHED BY:	DATE:	TIME:	ACCEPTED BY:	DATE:	TIME:	Labeled By:	Date: 3/26/18

Billing Group:		Phase:		PROJECT NAME																																																																									
				GW Sampling																																																																									
MR Project #		SITE LOCATION		Indiana PA																																																																									
4644.15.01																																																																													
CLIENT		SAMPLER(S)																																																																											
Venards		JMB																																																																											
<div style="display: flex; justify-content: space-between;"> <div> NOTES: Received On Ice: <u>5</u> / <u>N</u> Sample Temp: <u>5.4</u> PWSID # _____ Seal In Tack: <u>Y</u> / <u>N</u> Other: _____ Comments: _____ </div> <div style="border: 1px solid black; padding: 5px;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID. NO.</th> <th>DATE</th> <th>TIME</th> <th>GRAB</th> <th>COMP</th> <th>MATRIX</th> </tr> </thead> <tbody> <tr><td>NW-12</td><td>3-22-18</td><td>9:55</td><td>X</td><td></td><td>AG</td></tr> <tr><td>NW-13</td><td>3-22-18</td><td>11:45</td><td></td><td></td><td></td></tr> <tr><td>NW-14</td><td>3-22-18</td><td>14:10</td><td></td><td></td><td></td></tr> <tr><td>NW-15R</td><td>3-22-18</td><td>16:55</td><td></td><td></td><td></td></tr> <tr><td>NW-3BR</td><td>3-22-18</td><td>18:30</td><td></td><td></td><td></td></tr> <tr><td>NW-4BR</td><td>3-22-18</td><td>17:20</td><td></td><td></td><td></td></tr> <tr><td>NW-5BR</td><td>3-22-18</td><td>10:55</td><td></td><td></td><td></td></tr> <tr><td>NW-6BR</td><td>3-22-18</td><td>15:50</td><td></td><td></td><td></td></tr> <tr><td>NW-7BR</td><td>3-22-18</td><td>14:45</td><td></td><td></td><td></td></tr> <tr><td>NW-8BR</td><td>3-22-18</td><td>15:00</td><td></td><td></td><td></td></tr> <tr><td>NW-9BR</td><td>3-22-18</td><td>13:40</td><td></td><td></td><td></td></tr> </tbody> </table> </div> </div>						SAMPLE ID. NO.	DATE	TIME	GRAB	COMP	MATRIX	NW-12	3-22-18	9:55	X		AG	NW-13	3-22-18	11:45				NW-14	3-22-18	14:10				NW-15R	3-22-18	16:55				NW-3BR	3-22-18	18:30				NW-4BR	3-22-18	17:20				NW-5BR	3-22-18	10:55				NW-6BR	3-22-18	15:50				NW-7BR	3-22-18	14:45				NW-8BR	3-22-18	15:00				NW-9BR	3-22-18	13:40			
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MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED: 3/22/18

DATE RECEIVED: 3/23/18

TIME RECEIVED: 0730



- CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐
- WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN:

3. NUMBER OF CONTAINERS RECEIVED:

46

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN:

5. RECEIVING TEMP: 5.4 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED:

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN:

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN:

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN:

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN:

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN:

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS:

CLIENT SPOKEN TO:

DATE/TIME:

OUTCOME:

SIGNATURE:

[Signature]

L60.30.A r2 Sample Receipt Form

For MR Use Only

Page 29 of 29



**MOUNTAIN
RESEARCH, LLC**

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Shenandoah Junction, WV 25442
(304) 930-1972
Fax (304) 930-1975

22 May 2018

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 8050397

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 05/09/18 14:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050397
Reported:
05/22/18 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
Trip Blank	8050397-01	Aqueous	Grab	05/09/18 06:00	05/09/18 14:16
MW-15	8050397-02	Aqueous	Grab	05/09/18 08:55	05/09/18 14:16
MW-16	8050397-03	Aqueous	Grab	05/09/18 09:30	05/09/18 14:16

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

Page 2 of 8



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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050397
Reported:
05/22/18 12:32

Trip Blank

8050397-01 (Aqueous) Sampled: 05/09/18 06:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/09/18 22:06	05/09/18 22:06	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	93.8 %		80-120	05/09/18 22:06	05/09/18 22:06	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.4 %		80-120	05/09/18 22:06	05/09/18 22:06	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	05/09/18 22:06	05/09/18 22:06	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	05/09/18 22:06	05/09/18 22:06	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050397
Reported:
05/22/18 12:32

MW-15

8050397-02 (Aqueous) Sampled: 05/09/18 08:55

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/09/18 22:33	05/09/18 22:33	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.2 %		80-120	05/09/18 22:33	05/09/18 22:33	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.9 %		80-120	05/09/18 22:33	05/09/18 22:33	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	05/09/18 22:33	05/09/18 22:33	EPA 8260 B				
Surrogate: Toluene-d8	99.7 %		80-120	05/09/18 22:33	05/09/18 22:33	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050397
Reported:
05/22/18 12:32

MW-16

8050397-03 (Aqueous) Sampled: 05/09/18 09:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	3.85	2.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/09/18 22:59	05/09/18 22:59	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4		106 %	80-120	05/09/18 22:59	05/09/18 22:59	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		96.7 %	80-120	05/09/18 22:59	05/09/18 22:59	EPA 8260 B				
Surrogate: Dibromofluoromethane		105 %	80-120	05/09/18 22:59	05/09/18 22:59	EPA 8260 B				
Surrogate: Toluene-d8		102 %	80-120	05/09/18 22:59	05/09/18 22:59	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050397
Reported:
05/22/18 12:32

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

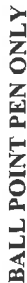
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

Page 6 of 8



Billing Group:	Phase:	PROJECT NAME	MOUNTAIN RESEARCH LLC 825 25th Street, Altoona, PA 16601 110 McCracken Run Road, Dubois, PA 15801 (814) 949-2034 (800) : (814) 371-6030 Fax (8
MR Project #	5644-201	15.01	
		SITE LOCATION	
		vennerds	
		Indiana PA	

CLIENT	SAMPLER(S)	CHAIN OF CUSTODY RECORD
✓		

VENNARDS	INS	NOTES: <u>145 5/11/16</u> <u>(Y)</u>	NUMBER OF CONTAINERS	PRODUCT CODE	8266B	8266B	Analyses Requested
		Received On Ice: <u>(Y)</u> / <u>(N)</u>					
		Sample Temp: <u>5.1</u>					
		PWSID #: _____					
		Seal In Tack: <u>Y</u> / <u>N</u>					
		Other: _____					
		Comments: _____					

[illegible]

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

8050392

CLIENT:

Vennards

DATE SAMPLED:

5-9-18

DATE RECEIVED:

5-9-18

TIME RECEIVED:

1446



1. CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☒

2. WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN:

3. NUMBER OF CONTAINERS RECEIVED: 6 + 2 Dups

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN:

5. RECEIVING TEMP: 5.1 °C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED: 1

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN:

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN:

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☒ N/A ☐

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN:

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN:

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN:

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS:

CLIENT SPOKEN TO:

DATE/TIME:

OUTCOME:

2 Duplicates mw-15

SIGNATURE:

[Signature]

L60.30.A r2 Sample Receipt Form

For MR Use Only



**MOUNTAIN
RESEARCH, LLC**

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15 June 2018

Richard Vennard
Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA 15701

Lab ID #: 8050801

RE: Indiana, PA

Enclosed are the results of analyses for samples received by the laboratory on 05/25/18 14:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen Gampe
Assistant Laboratory Manager

Authorized Reviewer



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Vennard Crossroads Convenience, Inc
 5190 White Oak Dr
 Indiana PA, 15701

Project Name: Indiana, PA
 Project Number: 4644.15.01
 Lab Project Manager: Stephen Gampe

Lab ID#:
 8050801
Reported:
 06/15/18 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
MW-1	8050801-01	Aqueous	Grab	05/25/18 10:10	05/25/18 14:07
MW-2	8050801-02	Aqueous	Grab	05/25/18 11:53	05/25/18 14:07
MW-3	8050801-03	Aqueous	Grab	05/25/18 10:45	05/25/18 14:07
MW-4	8050801-04	Aqueous	Grab	05/25/18 09:07	05/25/18 14:07
MW-5	8050801-05	Aqueous	Grab	05/25/18 10:28	05/25/18 14:07
MW-6	8050801-06	Aqueous	Grab	05/25/18 07:57	05/25/18 14:07
MW-7	8050801-07	Aqueous	Grab	05/25/18 06:50	05/25/18 14:07
MW-8	8050801-08	Aqueous	Grab	05/25/18 09:32	05/25/18 14:07
MW-9	8050801-09	Aqueous	Grab	05/25/18 09:50	05/25/18 14:07
MW-10	8050801-10	Aqueous	Grab	05/25/18 08:10	05/25/18 14:07
MW-11	8050801-11	Aqueous	Grab	05/25/18 07:07	05/25/18 14:07
MW-12	8050801-12	Aqueous	Grab	05/25/18 07:50	05/25/18 14:07
MW-13	8050801-13	Aqueous	Grab	05/25/18 10:03	05/25/18 14:07
MW-14	8050801-14	Aqueous	Grab	05/25/18 11:30	05/25/18 14:07
MW-15	8050801-15	Aqueous	Grab	05/25/18 07:35	05/25/18 14:07
MW-16	8050801-16	Aqueous	Grab	05/25/18 08:40	05/25/18 14:07
MW-1BR	8050801-17	Aqueous	Grab	05/25/18 09:28	05/25/18 14:07
MW-2BR	8050801-18	Aqueous	Grab	05/25/18 06:55	05/25/18 14:07
MW-3BR	8050801-19	Aqueous	Grab	05/25/18 10:40	05/25/18 14:07
MW-4BR	8050801-20	Aqueous	Grab	05/25/18 09:45	05/25/18 14:07
MW-5BR	8050801-21	Aqueous	Grab	05/25/18 08:20	05/25/18 14:07
MW-6BR	8050801-22	Aqueous	Grab	05/25/18 08:30	05/25/18 14:07
MW-7BR	8050801-23	Aqueous	Grab	05/25/18 07:25	05/25/18 14:07
MW-8BR	8050801-24	Aqueous	Grab	05/25/18 07:20	05/25/18 14:07
MW-9BR	8050801-25	Aqueous	Grab	05/25/18 09:00	05/25/18 14:07
EW-1	8050801-26	Aqueous	Grab	05/25/18 09:36	05/25/18 14:07

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
EW-1BR	8050801-27	Aqueous	Grab	05/25/18 09:41	05/25/18 14:07
Steam Gauge 1	8050801-28	Aqueous	Grab	05/24/18 08:41	05/25/18 14:07
BLD Sump	8050801-29	Aqueous	Grab	05/25/18 12:00	05/25/18 14:07
Tank Field Sump	8050801-30	Aqueous	Grab	05/25/18 11:05	05/25/18 14:07
Duplicate	8050801-31	Aqueous	Grab	05/25/18 10:30	05/25/18 14:07
Trip Blank	8050801-32	Aqueous	Grab	05/25/18 12:10	05/25/18 14:07
GAC	8050801-33	Aqueous	Grab	05/25/18 11:35	05/25/18 14:07

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-1

8050801-01 (Aqueous) Sampled: 05/25/18 10:10

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 01:32	05/31/18 01:32	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	92.4 %		80-120	05/31/18 01:32	05/31/18 01:32	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.7 %		80-120	05/31/18 01:32	05/31/18 01:32	EPA 8260 B				
Surrogate: Dibromofluoromethane	100 %		80-120	05/31/18 01:32	05/31/18 01:32	EPA 8260 B				
Surrogate: Toluene-d8	98.4 %		80-120	05/31/18 01:32	05/31/18 01:32	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-2

8050801-02 (Aqueous) Sampled: 05/25/18 11:53

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	2740	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	754	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	2390	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	1900	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	<200	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<200	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	473	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	9540	2000	µg/L	05/30/18 20:19	05/30/18 20:45	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	4430	200	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	9190	400	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	13600	600	µg/L	05/30/18 20:19	05/30/18 20:19	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	103 %		80-120	05/30/18 20:19	05/30/18 20:19	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.9 %		80-120	05/30/18 20:19	05/30/18 20:19	EPA 8260 B				
Surrogate: Dibromofluoromethane	96.2 %		80-120	05/30/18 20:19	05/30/18 20:19	EPA 8260 B				
Surrogate: Toluene-d8	105 %		80-120	05/30/18 20:19	05/30/18 20:19	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-3

8050801-03 (Aqueous) Sampled: 05/25/18 10:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 01:06	05/31/18 01:06	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.8 %		80-120	05/31/18 01:06	05/31/18 01:06	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.0 %		80-120	05/31/18 01:06	05/31/18 01:06	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.5 %		80-120	05/31/18 01:06	05/31/18 01:06	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	05/31/18 01:06	05/31/18 01:06	EPA 8260 B				

Mountain Research, LLC

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-4

8050801-04 (Aqueous) Sampled: 05/25/18 09:07

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	4.55	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	2.63	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	53.4	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	2.91	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	9.67	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	2.43	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	43.3	4.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	43.3	6.00	µg/L	05/31/18 06:46	05/31/18 06:46	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	101 %		80-120	05/31/18 06:46	05/31/18 06:46	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.4 %		80-120	05/31/18 06:46	05/31/18 06:46	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	05/31/18 06:46	05/31/18 06:46	EPA 8260 B				
Surrogate: Toluene-d8	108 %		80-120	05/31/18 06:46	05/31/18 06:46	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-5

8050801-05 (Aqueous) Sampled: 05/25/18 10:28

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	4.81	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 01:58	05/31/18 01:58	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	93.6 %		80-120	05/31/18 01:58	05/31/18 01:58	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.8 %		80-120	05/31/18 01:58	05/31/18 01:58	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %		80-120	05/31/18 01:58	05/31/18 01:58	EPA 8260 B				
Surrogate: Toluene-d8	100 %		80-120	05/31/18 01:58	05/31/18 01:58	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644,15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-6

8050801-06 (Aqueous) Sampled: 05/25/18 07:57

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.70	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 02:25	05/31/18 02:25	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	90.5 %		80-120	05/31/18 02:25	05/31/18 02:25	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.6 %		80-120	05/31/18 02:25	05/31/18 02:25	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	05/31/18 02:25	05/31/18 02:25	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	05/31/18 02:25	05/31/18 02:25	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-7

8050801-07 (Aqueous) Sampled: 05/25/18 06:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	92.8	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	9.74	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	3.28	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	18.2	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	8.20	2.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	12.9	4.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	21.1	6.00	µg/L	05/31/18 02:51	05/31/18 02:51	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	97.4 %		80-120	05/31/18 02:51	05/31/18 02:51	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.3 %		80-120	05/31/18 02:51	05/31/18 02:51	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.8 %		80-120	05/31/18 02:51	05/31/18 02:51	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	05/31/18 02:51	05/31/18 02:51	EPA 8260 B				

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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-8

8050801-08 (Aqueous) Sampled: 05/25/18 09:32

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	310	50.0	µg/L	05/31/18 07:12	06/01/18 12:38	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	97.9	2.00	µg/L	05/31/18 07:12	05/31/18 07:12	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	1470	50.0	µg/L	05/31/18 07:12	06/01/18 12:38	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	272	50.0	µg/L	05/31/18 07:12	06/01/18 12:38	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	21.8	2.00	µg/L	05/31/18 07:12	05/31/18 07:12	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.43	2.00	µg/L	05/31/18 07:12	05/31/18 07:12	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	74.2	2.00	µg/L	05/31/18 07:12	05/31/18 07:12	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	1230	50.0	µg/L	05/31/18 07:12	06/01/18 12:38	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	508	50.0	µg/L	05/31/18 07:12	06/01/18 12:38	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	1380	100	µg/L	05/31/18 07:12	06/01/18 12:38	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	1890	150	µg/L	05/31/18 07:12	06/01/18 12:38	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	93.7 %	80-120		05/31/18 07:12	05/31/18 07:12	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.7 %	80-120		05/31/18 07:12	05/31/18 07:12	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %	80-120		05/31/18 07:12	05/31/18 07:12	EPA 8260 B				
Surrogate: Toluene-d8	100 %	80-120		05/31/18 07:12	05/31/18 07:12	EPA 8260 B				

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Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-9

8050801-09 (Aqueous) Sampled: 05/25/18 09:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	2.52	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	13.7	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	5.03	2.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 03:17	05/31/18 03:17	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	99.4 %		80-120	05/31/18 03:17	05/31/18 03:17	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.5 %		80-120	05/31/18 03:17	05/31/18 03:17	EPA 8260 B				
Surrogate: Dibromofluoromethane	93.2 %		80-120	05/31/18 03:17	05/31/18 03:17	EPA 8260 B				
Surrogate: Toluene-d8	109 %		80-120	05/31/18 03:17	05/31/18 03:17	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-10

8050801-10 (Aqueous) Sampled: 05/25/18 08:10

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	49.8	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	19.0	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	296	20.0	µg/L	05/31/18 07:38	06/01/18 13:30	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	93.6	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	13.9	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.54	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	13.4	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	11.9	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	6.05	2.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	50.9	4.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	57.0	6.00	µg/L	05/31/18 07:38	05/31/18 07:38	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	89.9 %		80-120	05/31/18 07:38	05/31/18 07:38	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	96.3 %		80-120	05/31/18 07:38	05/31/18 07:38	EPA 8260 B				
Surrogate: Dibromofluoromethane	92.0 %		80-120	05/31/18 07:38	05/31/18 07:38	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	05/31/18 07:38	05/31/18 07:38	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-11

8050801-11 (Aqueous) Sampled: 05/25/18 07:07

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	3.11	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	2.34	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 03:43	05/31/18 03:43	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	91.4 %		80-120	05/31/18 03:43	05/31/18 03:43	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.6 %		80-120	05/31/18 03:43	05/31/18 03:43	EPA 8260 B				
Surrogate: Dibromofluoromethane	111 %		80-120	05/31/18 03:43	05/31/18 03:43	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	05/31/18 03:43	05/31/18 03:43	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-12

8050801-12 (Aqueous) Sampled: 05/25/18 07:50

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 04:09	05/31/18 04:09	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.4 %		80-120	05/31/18 04:09	05/31/18 04:09	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.9 %		80-120	05/31/18 04:09	05/31/18 04:09	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	05/31/18 04:09	05/31/18 04:09	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	05/31/18 04:09	05/31/18 04:09	EPA 8260 B				

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5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-13

8050801-13 (Aqueous) Sampled: 05/25/18 10:03

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 04:35	05/31/18 04:35	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	87.3 %		80-120	05/31/18 04:35	05/31/18 04:35	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.1 %		80-120	05/31/18 04:35	05/31/18 04:35	EPA 8260 B				
Surrogate: Dibromofluoromethane	106 %		80-120	05/31/18 04:35	05/31/18 04:35	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	05/31/18 04:35	05/31/18 04:35	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-14

8050801-14 (Aqueous) Sampled: 05/25/18 11:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1040	100	µg/L	05/31/18 05:01	05/31/18 05:27	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	349	10.0	µg/L	05/31/18 05:01	05/31/18 05:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	1650	100	µg/L	05/31/18 05:01	05/31/18 05:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	496	100	µg/L	05/31/18 05:01	05/31/18 05:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	65.2	10.0	µg/L	05/31/18 05:01	05/31/18 05:01	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	21.8	10.0	µg/L	05/31/18 05:01	05/31/18 05:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	201	10.0	µg/L	05/31/18 05:01	05/31/18 05:01	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	1650	100	µg/L	05/31/18 05:01	05/31/18 05:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	970	100	µg/L	05/31/18 05:01	05/31/18 05:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	2060	200	µg/L	05/31/18 05:01	05/31/18 05:27	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	3030	30.0	µg/L	05/31/18 05:01	05/31/18 05:27	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	86.2 %	80-120		05/31/18 05:01	05/31/18 05:01	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.8 %	80-120		05/31/18 05:01	05/31/18 05:01	EPA 8260 B				
Surrogate: Dibromofluoromethane	96.5 %	80-120		05/31/18 05:01	05/31/18 05:01	EPA 8260 B				
Surrogate: Toluene-d8	98.6 %	80-120		05/31/18 05:01	05/31/18 05:01	EPA 8260 B				

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Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-15

8050801-15 (Aqueous) Sampled: 05/25/18 07:35

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 05:53	05/31/18 05:53	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	85.8 %		80-120	05/31/18 05:53	05/31/18 05:53	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.0 %		80-120	05/31/18 05:53	05/31/18 05:53	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %		80-120	05/31/18 05:53	05/31/18 05:53	EPA 8260 B				
Surrogate: Toluene-d8	99.6 %		80-120	05/31/18 05:53	05/31/18 05:53	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-16

8050801-16 (Aqueous) Sampled: 05/25/18 08:40

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/01/18 12:11	06/01/18 12:11	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	97.5 %		80-120	06/01/18 12:11	06/01/18 12:11	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.4 %		80-120	06/01/18 12:11	06/01/18 12:11	EPA 8260 B				
Surrogate: Dibromofluoromethane	109 %		80-120	06/01/18 12:11	06/01/18 12:11	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	06/01/18 12:11	06/01/18 12:11	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-1BR

8050801-17 (Aqueous) Sampled: 05/25/18 09:28

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	24.8	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	226	20.0	µg/L	05/31/18 08:04	06/01/18 13:57	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	47.7	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	6.23	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	7.95	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	2.37	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	10.2	4.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	10.2	6.00	µg/L	05/31/18 08:04	05/31/18 08:04	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	93.9 %	80-120		05/31/18 08:04	05/31/18 08:04	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.0 %	80-120		05/31/18 08:04	05/31/18 08:04	EPA 8260 B				
Surrogate: Dibromofluoromethane	97.8 %	80-120		05/31/18 08:04	05/31/18 08:04	EPA 8260 B				
Surrogate: Toluene-d8	101 %	80-120		05/31/18 08:04	05/31/18 08:04	EPA 8260 B				

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Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-2BR

8050801-18 (Aqueous) Sampled: 05/25/18 06:55

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/01/18 17:54	06/01/18 17:54	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	90.8 %	80-120		06/01/18 17:54	06/01/18 17:54	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	93.0 %	80-120		06/01/18 17:54	06/01/18 17:54	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %	80-120		06/01/18 17:54	06/01/18 17:54	EPA 8260 B				
Surrogate: Toluene-d8	103 %	80-120		06/01/18 17:54	06/01/18 17:54	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-3BR

8050801-19 (Aqueous) Sampled: 05/25/18 10:40

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	3.11	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/01/18 18:20	06/01/18 18:20	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	95.7 %		80-120	06/01/18 18:20	06/01/18 18:20	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	89.0 %		80-120	06/01/18 18:20	06/01/18 18:20	EPA 8260 B				
Surrogate: Dibromofluoromethane	108 %		80-120	06/01/18 18:20	06/01/18 18:20	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	06/01/18 18:20	06/01/18 18:20	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-4BR

8050801-20 (Aqueous) Sampled: 05/25/18 09:45

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	05/31/18 06:20	05/31/18 06:20	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	98.0 %		80-120	05/31/18 06:20	05/31/18 06:20	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.2 %		80-120	05/31/18 06:20	05/31/18 06:20	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.4 %		80-120	05/31/18 06:20	05/31/18 06:20	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	05/31/18 06:20	05/31/18 06:20	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-5BR

8050801-21 (Aqueous) Sampled: 05/25/18 08:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	758	50.0	µg/L	06/01/18 18:47	06/01/18 19:13	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	213	10.0	µg/L	06/01/18 18:47	06/01/18 18:47	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	1070	50.0	µg/L	06/01/18 18:47	06/01/18 19:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	667	50.0	µg/L	06/01/18 18:47	06/01/18 19:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	73.6	10.0	µg/L	06/01/18 18:47	06/01/18 18:47	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<10.0	10.0	µg/L	06/01/18 18:47	06/01/18 18:47	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	172	10.0	µg/L	06/01/18 18:47	06/01/18 18:47	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	128	10.0	µg/L	06/01/18 18:47	06/01/18 18:47	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	207	10.0	µg/L	06/01/18 18:47	06/01/18 18:47	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	1310	100	µg/L	06/01/18 18:47	06/01/18 19:13	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	1520	22.0	µg/L	06/01/18 18:47	06/01/18 19:13	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	96.2 %		80-120	06/01/18 18:47	06/01/18 18:47	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	91.8 %		80-120	06/01/18 18:47	06/01/18 18:47	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	06/01/18 18:47	06/01/18 18:47	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	06/01/18 18:47	06/01/18 18:47	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-6BR

8050801-22 (Aqueous) Sampled: 05/25/18 08:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/01/18 19:39	06/01/18 19:39	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	87.8 %		80-120	06/01/18 19:39	06/01/18 19:39	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.5 %		80-120	06/01/18 19:39	06/01/18 19:39	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.8 %		80-120	06/01/18 19:39	06/01/18 19:39	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	06/01/18 19:39	06/01/18 19:39	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-7BR

8050801-23 (Aqueous) Sampled: 05/25/18 07:25

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/01/18 20:05	06/01/18 20:05	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	90.8 %		80-120	06/01/18 20:05	06/01/18 20:05	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.8 %		80-120	06/01/18 20:05	06/01/18 20:05	EPA 8260 B				
Surrogate: Dibromofluoromethane	101 %		80-120	06/01/18 20:05	06/01/18 20:05	EPA 8260 B				
Surrogate: Toluene-d8	102 %		80-120	06/01/18 20:05	06/01/18 20:05	EPA 8260 B				

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5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-8BR

8050801-24 (Aqueous) Sampled: 05/25/18 07:20

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/02/18 00:28	06/02/18 00:28	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	92.6 %		80-120	06/02/18 00:28	06/02/18 00:28	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	91.0 %		80-120	06/02/18 00:28	06/02/18 00:28	EPA 8260 B				
Surrogate: Dibromofluoromethane	110 %		80-120	06/02/18 00:28	06/02/18 00:28	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	06/02/18 00:28	06/02/18 00:28	EPA 8260 B				

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Shenandoah Junction, WV 25442
(304) 930-1972
Fax (304) 930-1975

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

MW-9BR

8050801-25 (Aqueous) Sampled: 05/25/18 09:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/02/18 00:54	06/02/18 00:54	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	95.9 %		80-120	06/02/18 00:54	06/02/18 00:54	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	91.8 %		80-120	06/02/18 00:54	06/02/18 00:54	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.4 %		80-120	06/02/18 00:54	06/02/18 00:54	EPA 8260 B				
Surrogate: Toluene-d8	107 %		80-120	06/02/18 00:54	06/02/18 00:54	EPA 8260 B				

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Stephen Gampe

Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

EW-1

8050801-26 (Aqueous) Sampled: 05/25/18 09:36

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	435	50.0	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	102	50.0	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	924	50.0	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	375	50.0	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	43.5	2.00	µg/L	05/31/18 08:31	05/31/18 08:31	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	05/31/18 08:31	05/31/18 08:31	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	71.4	50.0	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	1910	50.0	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	602	50.0	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	1570	100	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	2180	150	µg/L	05/31/18 08:31	06/01/18 13:04	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	96.1 %		80-120	05/31/18 08:31	05/31/18 08:31	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	98.5 %		80-120	05/31/18 08:31	05/31/18 08:31	EPA 8260 B				
Surrogate: Dibromofluoromethane	98.8 %		80-120	05/31/18 08:31	05/31/18 08:31	EPA 8260 B				
Surrogate: Toluene-d8	97.0 %		80-120	05/31/18 08:31	05/31/18 08:31	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

EW-1BR

8050801-27 (Aqueous) Sampled: 05/25/18 09:41

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	202	20.0	µg/L	06/02/18 08:18	06/04/18 21:40	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	38.7	2.00	µg/L	06/02/18 08:18	06/02/18 08:18	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	734	20.0	µg/L	06/02/18 08:18	06/04/18 21:40	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	177	20.0	µg/L	06/02/18 08:18	06/04/18 21:40	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	18.9	2.00	µg/L	06/02/18 08:18	06/02/18 08:18	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/02/18 08:18	06/02/18 08:18	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	46.5	2.00	µg/L	06/02/18 08:18	06/02/18 08:18	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	138	20.0	µg/L	06/02/18 08:18	06/04/18 21:40	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	197	20.0	µg/L	06/02/18 08:18	06/04/18 21:40	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	404	40.0	µg/L	06/02/18 08:18	06/04/18 21:40	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	601	60.0	µg/L	06/02/18 08:18	06/04/18 21:40	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	89.6 %		80-120	06/02/18 08:18	06/02/18 08:18	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	95.8 %		80-120	06/02/18 08:18	06/02/18 08:18	EPA 8260 B				
Surrogate: Dibromofluoromethane	102 %		80-120	06/02/18 08:18	06/02/18 08:18	EPA 8260 B				
Surrogate: Toluene-d8	101 %		80-120	06/02/18 08:18	06/02/18 08:18	EPA 8260 B				

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

Steam Gauge 1

8050801-28 (Aqueous) Sampled: 05/24/18 08:41

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/02/18 01:20	06/02/18 01:20	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	96.7 %		80-120	06/02/18 01:20	06/02/18 01:20		EPA 8260 B			
Surrogate: 4-Bromofluorobenzene	89.3 %		80-120	06/02/18 01:20	06/02/18 01:20		EPA 8260 B			
Surrogate: Dibromofluoromethane	103 %		80-120	06/02/18 01:20	06/02/18 01:20		EPA 8260 B			
Surrogate: Toluene-d8	102 %		80-120	06/02/18 01:20	06/02/18 01:20		EPA 8260 B			

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

BLD Sump

8050801-29 (Aqueous) Sampled: 05/25/18 12:00

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	4560	2000	µg/L	06/02/18 03:31	06/02/18 03:57	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	3440	200	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	3030	200	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	1900	200	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	413	200	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
MTBE	<200	200	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
Naphthalene	2290	200	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	150000	2000	µg/L	06/02/18 03:31	06/02/18 03:57	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	8120	200	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	16100	400	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	24200	600	µg/L	06/02/18 03:31	06/02/18 03:31	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	88.8 %	80-120		06/02/18 03:31	06/02/18 03:31	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	97.6 %	80-120		06/02/18 03:31	06/02/18 03:31	EPA 8260 B				
Surrogate: Dibromofluoromethane	99.8 %	80-120		06/02/18 03:31	06/02/18 03:31	EPA 8260 B				
Surrogate: Toluene-d8	101 %	80-120		06/02/18 03:31	06/02/18 03:31	EPA 8260 B				

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5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

Tank Field Sump
8050801-30 (Aqueous) Sampled: 05/25/18 11:05

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1950	100	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	499	100	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	2680	100	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	822	100	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	74.4	2.00	µg/L	06/02/18 01:46	06/02/18 01:46	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/02/18 01:46	06/02/18 01:46	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	604	100	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	13200	2000	µg/L	06/02/18 01:46	06/05/18 12:50	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	3500	100	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	6830	200	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	10300	300	µg/L	06/02/18 01:46	06/04/18 21:14	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4	84.6 %	80-120		06/02/18 01:46	06/02/18 01:46	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.8 %	80-120		06/02/18 01:46	06/02/18 01:46	EPA 8260 B				
Surrogate: Dibromofluoromethane	107 %	80-120		06/02/18 01:46	06/02/18 01:46	EPA 8260 B				
Surrogate: Toluene-d8	77.1 %	80-120		06/02/18 01:46	06/02/18 01:46	EPA 8260 B	S			

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

Duplicate

8050801-31 (Aqueous) Sampled: 05/25/18 10:30

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
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Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	5.42	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/04/18 19:55	06/04/18 19:55	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	90.1 %		80-120	06/04/18 19:55	06/04/18 19:55	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	94.7 %		80-120	06/04/18 19:55	06/04/18 19:55	EPA 8260 B				
Surrogate: Dibromofluoromethane	115 %		80-120	06/04/18 19:55	06/04/18 19:55	EPA 8260 B				
Surrogate: Toluene-d8	104 %		80-120	06/04/18 19:55	06/04/18 19:55	EPA 8260 B				

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DuBois Office and Laboratory
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DuBois, PA 15801
814.371.6030 Phone
814.375.0823 Fax

Hydrochem Laboratories
85 Potomac Avenue
Shenandoah Junction, WV 25442
(304) 930-1972
Fax (304) 930-1975

Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana, PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

Trip Blank
8050801-32 (Aqueous) Sampled: 05/25/18 12:10

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
---------	--------	----	-------	----------	----------	-------------	--------	-----	---------	-------

Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
1,3,5-Trimethylbenzene	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Benzene	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Ethylbenzene	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Isopropylbenzene (Cumene)	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Toluene	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylene o	<2.00	2.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylene p/m	<4.00	4.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	
Xylenes, Total	<6.00	6.00	µg/L	06/04/18 20:21	06/04/18 20:21	EPA 5030B	EPA 8260 B	A	JMG	CC
Surrogate: 1,2-Dichloroethane-d4	93.2 %		80-120	06/04/18 20:21	06/04/18 20:21	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene	92.6 %		80-120	06/04/18 20:21	06/04/18 20:21	EPA 8260 B				
Surrogate: Dibromofluoromethane	103 %		80-120	06/04/18 20:21	06/04/18 20:21	EPA 8260 B				
Surrogate: Toluene-d8	103 %		80-120	06/04/18 20:21	06/04/18 20:21	EPA 8260 B				

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Stephen Gampe, Assistant Laboratory Manager

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Vennard Crossroads Convenience, Inc
5190 White Oak Dr
Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

GAC

8050801-33 (Aqueous) Sampled: 05/25/18 11:35

Analyte	Result	RL	Units	Prepared	Analyzed	Prep Method	Method	Lab	Analyst	Notes
---------	--------	----	-------	----------	----------	-------------	--------	-----	---------	-------

Mountain Research, LLC

Volatile Organic Compounds by GC/MS

1,2,4-Trimethylbenzene	1390	50.0	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
1,3,5-Trimethylbenzene	414	50.0	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
Benzene	1960	50.0	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
Ethylbenzene	706	50.0	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
Isopropylbenzene (Cumene)	55.8	2.00	µg/L	06/02/18 03:05	06/02/18 03:05	EPA 5030B	EPA 8260 B	A	JMG	
MTBE	17.5	2.00	µg/L	06/02/18 03:05	06/02/18 03:05	EPA 5030B	EPA 8260 B	A	JMG	
Naphthalene	193	50.0	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
Toluene	2230	50.0	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene o	1140	50.0	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylene p/m	2610	100	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	D1
Xylenes, Total	3750	150	µg/L	06/02/18 03:05	06/04/18 20:48	EPA 5030B	EPA 8260 B	A	JMG	CC, D1
Surrogate: 1,2-Dichloroethane-d4		90.5 %	80-120	06/02/18 03:05	06/02/18 03:05	EPA 8260 B				
Surrogate: 4-Bromofluorobenzene		99.0 %	80-120	06/02/18 03:05	06/02/18 03:05	EPA 8260 B				
Surrogate: Dibromofluoromethane		93.4 %	80-120	06/02/18 03:05	06/02/18 03:05	EPA 8260 B				
Surrogate: Toluene-d8		101 %	80-120	06/02/18 03:05	06/02/18 03:05	EPA 8260 B				

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Indiana PA, 15701

Project Name: Indiana, PA
Project Number: 4644.15.01
Lab Project Manager: Stephen Gampe

Lab ID#:
8050801
Reported:
06/15/18 16:06

Certifications

Code	Description	Number	Expires
MDDOE	Maryland Department of the Environment	257	06/30/2018
PADEP-Altoona	Pennsylvania Department of Environmental Protection	009	03/31/2018
WVDEP-Altoona	West Virginia Department of Environmental Protection	225	12/31/2018
PADEP-DuBois	Pennsylvania Department of Environmental Protection	008	09/30/2018
WVDEP-HydroChem	West Virginia Department of Environmental Protection	038	11/01/2018

Notes and Definitions

S	Surrogate recovery outside of laboratory acceptance criteria.
D1	The sample was analyzed at a dilution.
CC	Calculated analytes are reported based on unrounded results of the individual analytes used in the calculation. Therefore, using the rounded values of the analytes as reported may lead to a result that varies slightly from the reported result.
RL	Reporting Limit - either the practical quantitation limit or the method detection limit
dry	Sample results reported on a dry weight basis
A	Analysis Performed by Mountain Research Altoona Laboratory - PADEP #07-00418, WVDEP #225
D	Analysis Performed by Mountain Research DuBois Laboratory - PADEP # 33-00258
W	Analysis Performed by Mountain Research - HydroChem Laboratory - WVDEP #038

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BALL POINT PEN ONLY

Billing Group:	Phase:	PROJECT NAME <i>Gw Sampling</i>
MR Project # <i>4644.15.01</i>	SITE LOCATION <i>Indiana, PA</i>	
CLIENT <i>Vemards</i>	SAMPLER(S) <i>NS</i>	

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 825 25th Street, Altoona, PA 16601 (814) 949-2034 (814)
 110 McCracken Run Road, Dubois, PA 15801 (814) 371-6030 Fax (814) 371-6030

NOTES
 Received On Site *(X) 22*
 Sample Temp _____
 PWSID # _____
 Seal in Tack Y / N _____
 Other _____
 Comments _____

CHAIN OF CUSTODY RECORD

SAMPLE ID NO.	DATE	TIME	GRAB	COMP	MATRIX	NUMBER OF CONTAINERS	PRODUCT CODE	Analyses Requested			MR PROJ. MGR. <i>AK</i>
MW-1	5/25/18	10:10	X		AQ	2 - 40 L	2A				Shipping Carrier: _____
MW-2		11:53									Turn Around Time: 10 Day <input checked="" type="checkbox"/> 3 Day _____ 1 Day _____
MW-3		10:45									Comments: _____
MW-4		9:07									
MW-5		10:28									
MW-6		7:57									
MW-7		6:50									
MW-8		9:32									
MW-9		9:56									
MW-10		8:10									
MW-11		7:07									
MW-12		7:50									
RELINQUISHED BY: <i>Mike S. Meyer</i>						DATE: 5/25/18		TIME: 2:07	ACCEPTED BY: <i>Mike S. Meyer</i>	DATE: 5/25/18	TIME: 2:07
RELINQUISHED BY:						DATE:		TIME:	ACCEPTED BY:	DATE:	TIME:

Billing Group: Phase: Gr Sampling

MR Project # 4644.15.01

CLIENT Venets

PROJECT NAME Gr Sampling

SITE LOCATION Indiana, PA

SAMPLER(S) US

MR PROJ. MGR. ML

Shipping Carrier: _____

Turn Around Time:
 10 Day ☒
 3 Day _____
 1 Day _____

Comments: _____

CHAIN OF CUSTODY RECORD

NOTES:

Received On Loc: (X) / N

Sample Temp: 2.2

Comp Set _____

Comments: _____

SAMPLE ID	DATE	TIME	GRAB	COMP	MATRIX	NUMBER OF CONTAINERS	PRODUCT CODE	8260B											Preserve	LAB NUMB
MW-13	5/25/18	10:03	X		4Q	2-402	2A	X										HCL	13	
MW-14		11:30																	14	
MW-15		7:35																	15	
MW-16		8:40																	16	
MW-1BR		9:28																	17	
MW-2BR		6:55																	18	
MW-3BR		10:40																	19	
MW-4BR		9:45																	20	
MW-5BR		8:20																	21	
MW-6BR		8:30																	22	
MW-7BR		7:25																	23	
MW-8BR		7:20																	24	

RELINQUISHED BY: Mike Salazar

RELINQUISHED BY: _____

DATE 5/25/18

DATE _____

TIME 2:58

TIME _____

ACCEPTED BY: Mike Salazar

ACCEPTED BY: _____

DATE/TIME 207

DATE/TIME 5/25/18

Lab Workorder #: 8050801

Labeled By: _____

Log In Time: 1423

Staff: KD

Date: 5/29/18

Billing Group: Phase:		PROJECT NAME <u>Gr Sampling</u>	
MR Project # <u>4644.15.01</u>		SITE LOCATION <u>Indiana, PA</u>	
CLIENT <u>Vennards</u>		SAMPLER(S) <u>NS</u>	

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 110 McCracken Run Road, Dubois, PA 15801
 (814) 371-6030 Fax (814) 375-0823

MOUNTAIN RESEARCH LLC

Received On Ice: (Y) / N
 Sample Temp: 22
 Comp Set: _____
 Comments: _____

CHAIN OF CUSTODY RECORD

SAMPLE ID	DATE	TIME	GRAB	COMP	MATRIX	NUMBER OF CONTAINERS	PRODUCT CODE	MR PROJ. MGR. <u>ML</u>	
								Shipping	Carrier
MV-9BR	5/25/18	9:00	X		AQ	20 ^{Volts}	24	826B	X
EW-1	5/25/18	9:36							
EW-1BR	5/25/18	9:41							
Stream Gauge 1	5/24/18	8:00							
Stream Gauge 2									
BLD Sump	5/25/18	12:00							
Tank Field Sump	5/25/18	11:05							
Duplicate	5/25/18	10:30							
Trip Blank	5/25/18	12:10							
G-AC	5/25/18	11:35							

RELINQUISHED BY: <u>Moh. Salyan</u>	DATE 5/25/18	TIME 2:07	ACCEPTED BY: <u>Moh. Salyan</u>	DATE/TIME 5/25/18 6:07	Lab Workorder #: <u>8050 801</u>	Log In Time: <u>1423</u>
RELINQUISHED BY:	DATE	TIME	ACCEPTED BY:	DATE/TIME	Labeled By:	Staff: <u>Kd</u>

Turn Around Time:
 10 Day ☒
 3 Day ☐
 1 Day ☐

Comments:

MR PROJ. MGR. ML
 Shipping Carrier:

MR PROJ. MGR. ML
 Shipping Carrier:

Log In Time:
1423
 Staff:
Kd
 Date:
5/29/18

MOUNTAIN RESEARCH SAMPLE RECEIPT PROTOCOL

WORK ORDER:

CLIENT:

DATE SAMPLED: 5/24/18

DATE RECEIVED: 5-25-18

TIME RECEIVED: 1407



- CHECK ALL THAT APPLY: PA ☒ WV ☐ MD ☐ PWS ☐ NPDES/COMPLIANCE ☐ DAIRY ☐ RUSH ☐
- WERE ANY OF THE SAMPLE CONTAINERS DAMAGED/LEAKING? (ARE CUSTODY SEALS BROKEN?) YES ☐ NO ☒

IF YES, EXPLAIN:

3. NUMBER OF CONTAINERS RECEIVED: 66

4. WERE THE SAMPLES RECEIVED ON ICE/OTHER ACCEPTABLE REFRIGERANT? YES ☒ NO ☐

IF NO, EXPLAIN:

5. RECEIVING TEMP: 2.2°C TEMP CONTROL(S) PRESENT YES ☐ NO ☐ BOTTLE(S) TEMPED:

6. WERE THE SAMPLES PROPERLY PRESERVED? YES ☒ NO ☐

IF NO, EXPLAIN:

7. WERE THE SAMPLES COLLECTED IN THE CORRECT CONTAINERS? YES ☒ NO ☐

IF NO, EXPLAIN:

8. IS THERE HEADSPACE PRESENT FOR VOLATILES/ODOR SAMPLES? YES ☐ NO ☐ N/A ☒

9. WAS THE COC FILLED OUT PROPERLY? YES ☒ NO ☐

IF NO, EXPLAIN:

10. DID THE SAMPLE LABEL(S) CONTAIN ADEQUATE INFO? (CLIENT/DATE/TIME/PRESERVATIVE) YES ☒ NO ☐

IF NO, EXPLAIN:

11. WERE ANY OF THE SAMPLES RECEIVED OUTSIDE OF HOLDING TIME? YES ☐ NO ☒

IF YES, EXPLAIN:

12. DO THE SAMPLES REQUIRE ANALYSES THAT HAVE A SHORT HOLDING TIME? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

PLEASE NOTIFY LABORATORY ANALYSTS!

13. IS SUBCONTRACTING REQUIRED? YES ☐ NO ☒

IF YES, WHAT ANALYSES?

14. WAS THE CLIENT CONTACTED? YES ☐ NO ☒ IF YES, FILL OUT THE FOLLOWING:

MR EMPLOYEE INITIALS:

CLIENT SPOKEN TO:

DATE/TIME:

OUTCOME:

SIGNATURE:

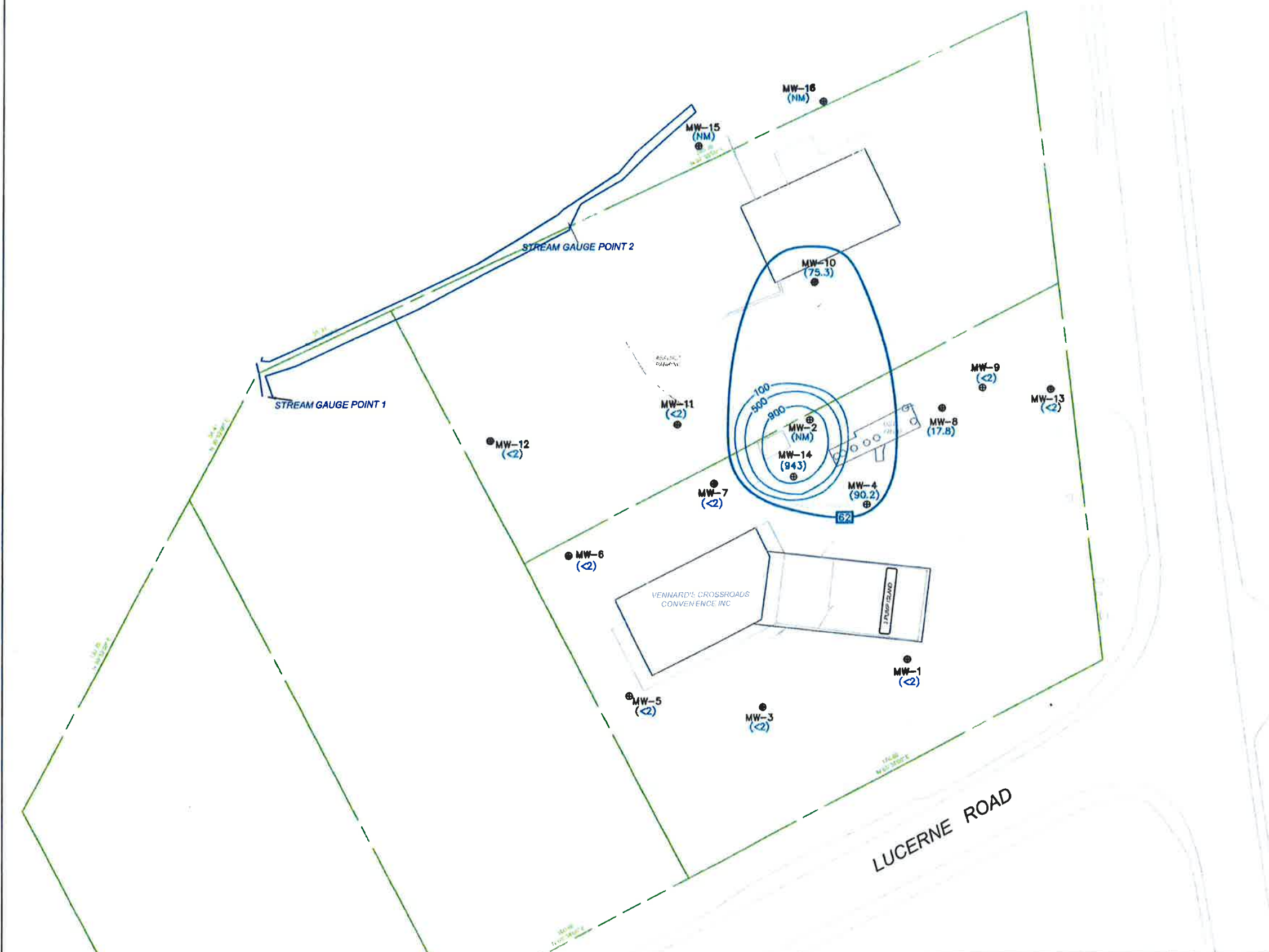
L60.30.A r2 Sample Receipt Form

For MR Use Only

Page 41 of 41

APPENDIX M

ISOCONCENTRATION MAPS



LEGEND

(2,200) 1,2,4 TMB CONCENTRATION (15 ug/L)

15 1,2,4 TMB ISOCONCENTRATION CONTOUR

(NM) NOT MONITORED

⊕ MONITORING WELL

— PROPERTY BOUNDARY

- - - EDGE OF CONCRETE

- - - EDGE OF ASPHALT

NOTES:

1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'

20' 0 40'

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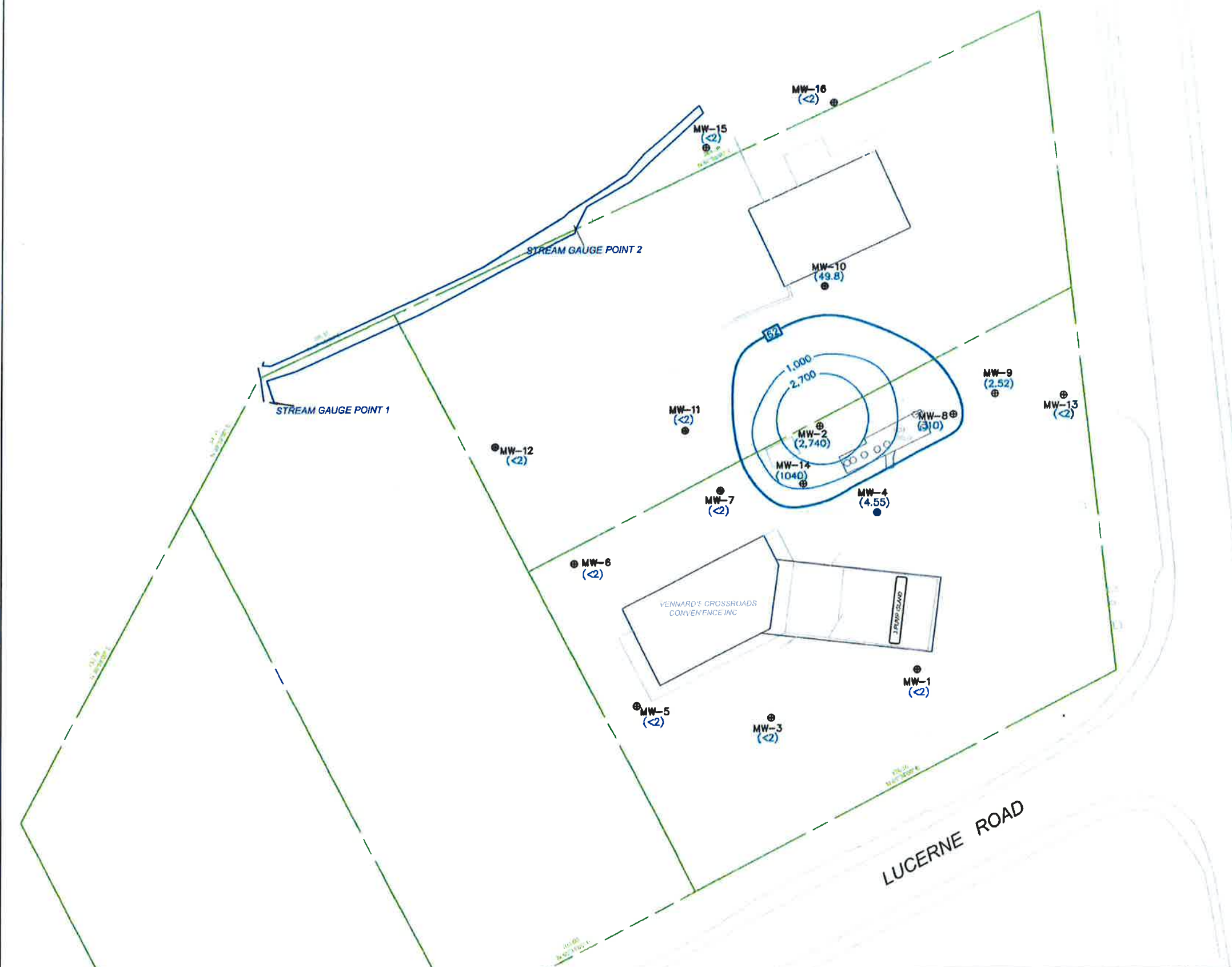
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Drawn By: JMB 08-30-16
Submitted By: MEK
Project Manager: Mike K
Checked By: MEK

4644.15.01

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Vennard's
4985 Lucerne Road
Indiana, PA
OVERBURDEN 1,2,4 TMB ISOCONCENTRATION CONTOUR MAP
March 21/22, 2018



LEGEND

- (2,200) 1,2,4 TMB CONCENTRATION (15 ug/L)
- 1,2,4 TMB ISOCONCENTRATION CONTOUR
- ⊕ MONITORING WELL
- (NM) NOT MONITORED
- PROPERTY BOUNDARY
- EDGE OF CONCRETE
- EDGE OF ASPHALT

NOTES:

1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'

20' 0 40'

Vennard's
4985 Lucerne Road
Indiana, PA

OVERBURDEN 1,2,4 TMB ISOCONCENTRATION CONTOUR MAP
May 25, 2018



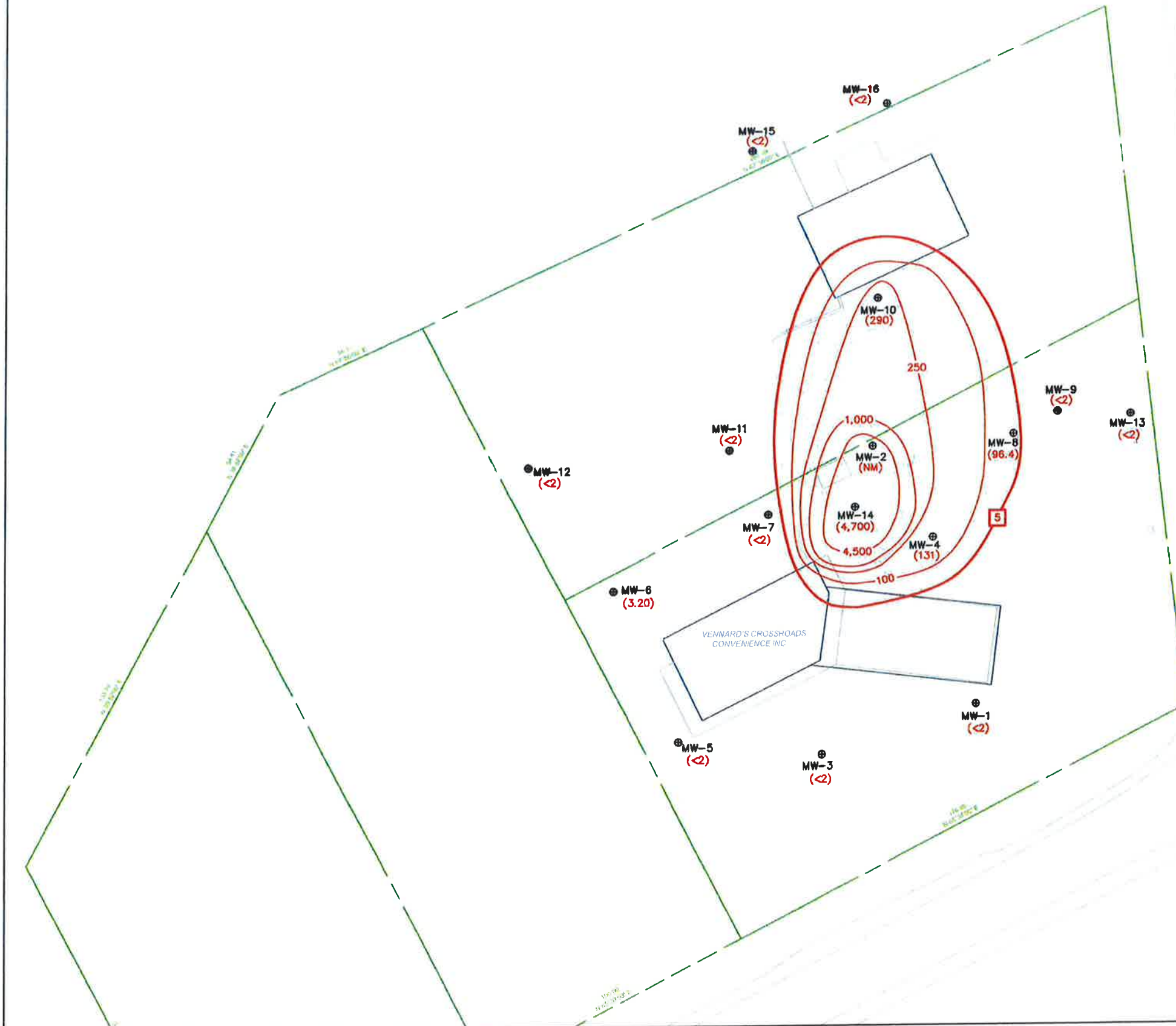
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LEGEND

(2,200) BENZENE CONCENTRATION (5 ug/L)

5 BENZENE ISOCONCENTRATION CONTOUR

(NM) NOT MONITORED

⊕ MONITORING WELL

--- PROPERTY BOUNDARY

--- EDGE OF CONCRETE

--- EDGE OF ASPHALT

NOTES:

1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'

20' 0 40'

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4985 Lucerne Road
Indiana, PA

BENZENE OVERBURDEN ISOCONCENTRATION CONTOUR MAP
March 21/22, 2018



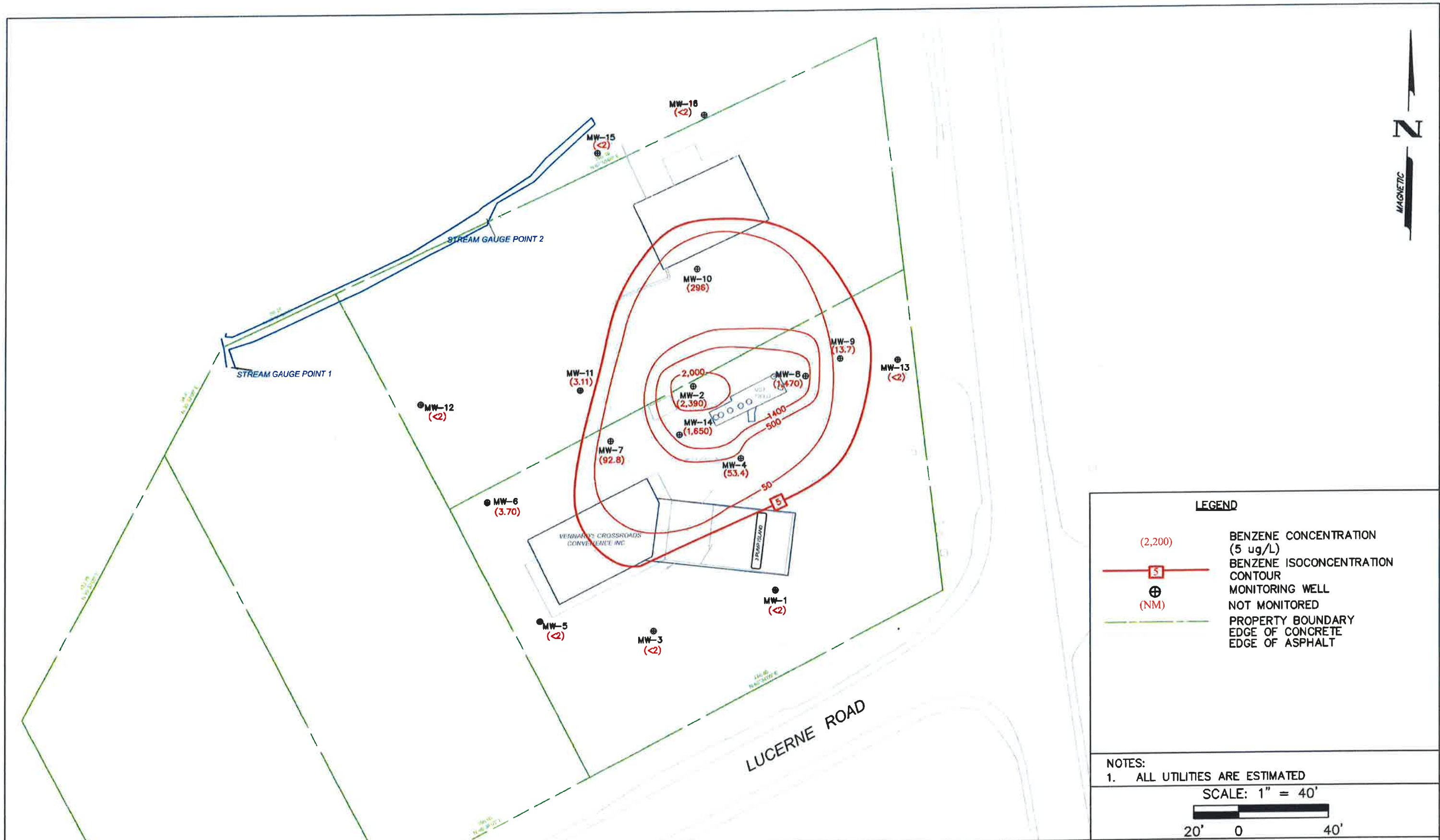
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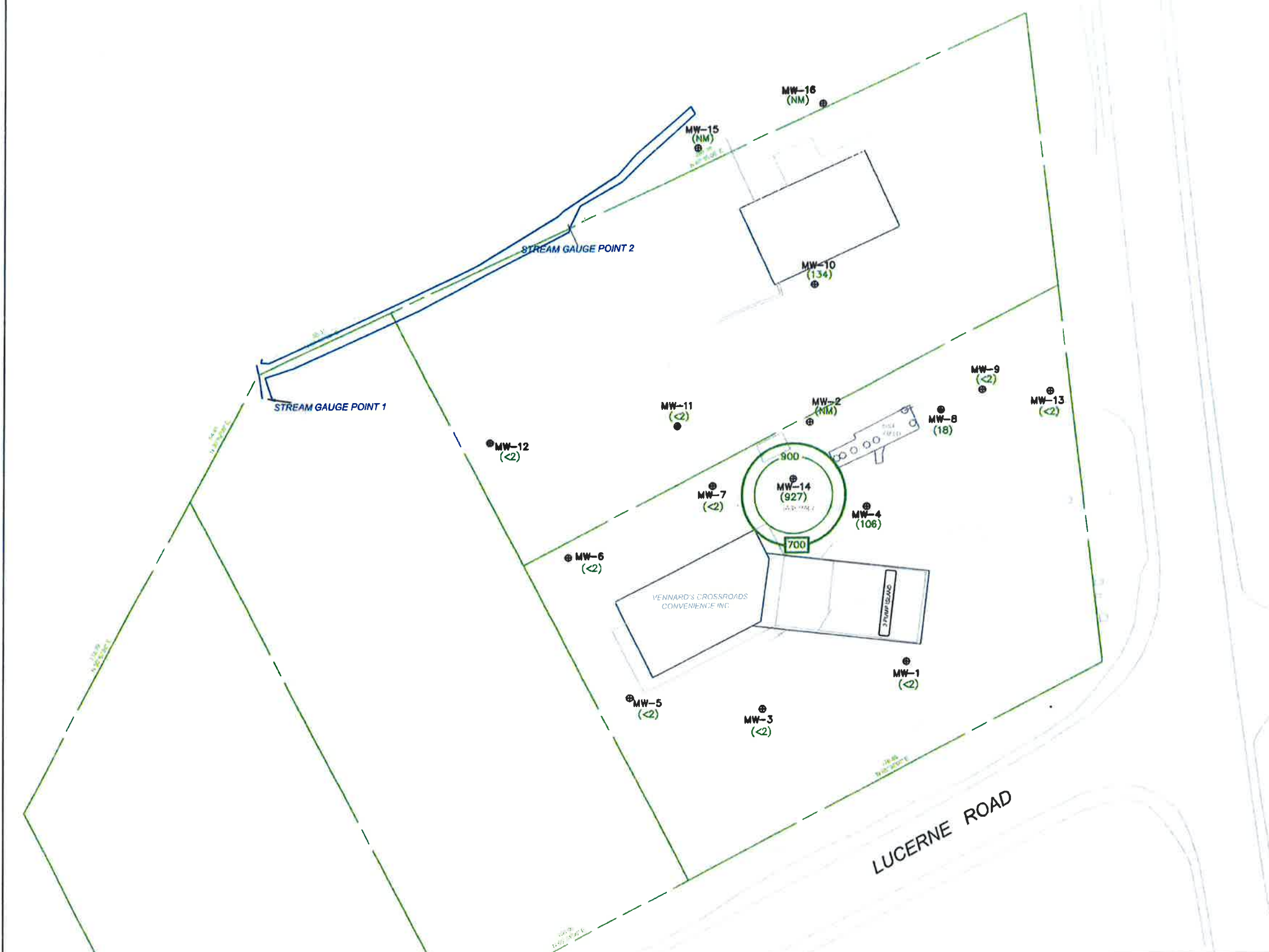
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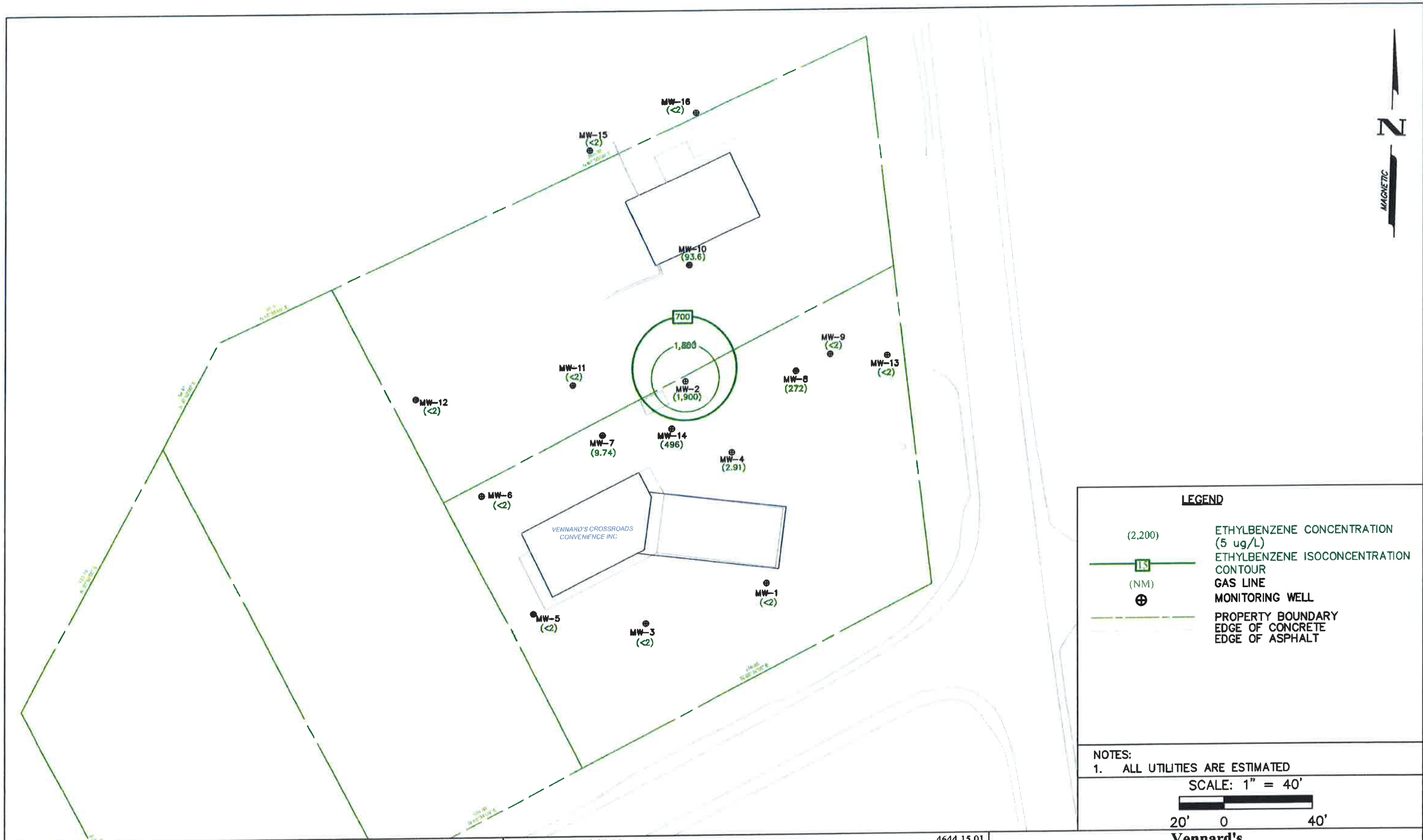


LEGEND	
(2,200)	ETHYLBENZENE CONCENTRATION (5 ug/L)
15	ETHYLBENZENE ISOCONCENTRATION CONTOUR
(NM)	NOT MONITORED
⊕	MONITORING WELL
---	PROPERTY BOUNDARY
---	EDGE OF CONCRETE
---	EDGE OF ASPHALT

NOTES:
1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'

20' 0 40'





LEGEND

- (2.200) MTBE CONCENTRATION (20 ug/L)
- 20 MTBE ISOCONCENTRATION CONTOUR
- (NM) NOT MONITORED
- ⊕ MONITORING WELL
- - - PROPERTY BOUNDARY
- - - EDGE OF CONCRETE
- - - EDGE OF ASPHALT

NOTES:

1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'

20' 0 40'

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Vennard's
4985 Lucerne Road
Indiana, PA
MTBE OVERBURDEN ISOCONCENTRATION CONTOUR MAP
March 22, 2018



LEGEND

- (2.200) MTBE CONCENTRATION (20 ug/L)
- 20 MTBE ISOCONCENTRATION CONTOUR
- ⊕ MONITORING WELL
- - - PROPERTY BOUNDARY
- - - EDGE OF CONCRETE
- - - EDGE OF ASPHALT

NOTES:
1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'

20' 0 40'



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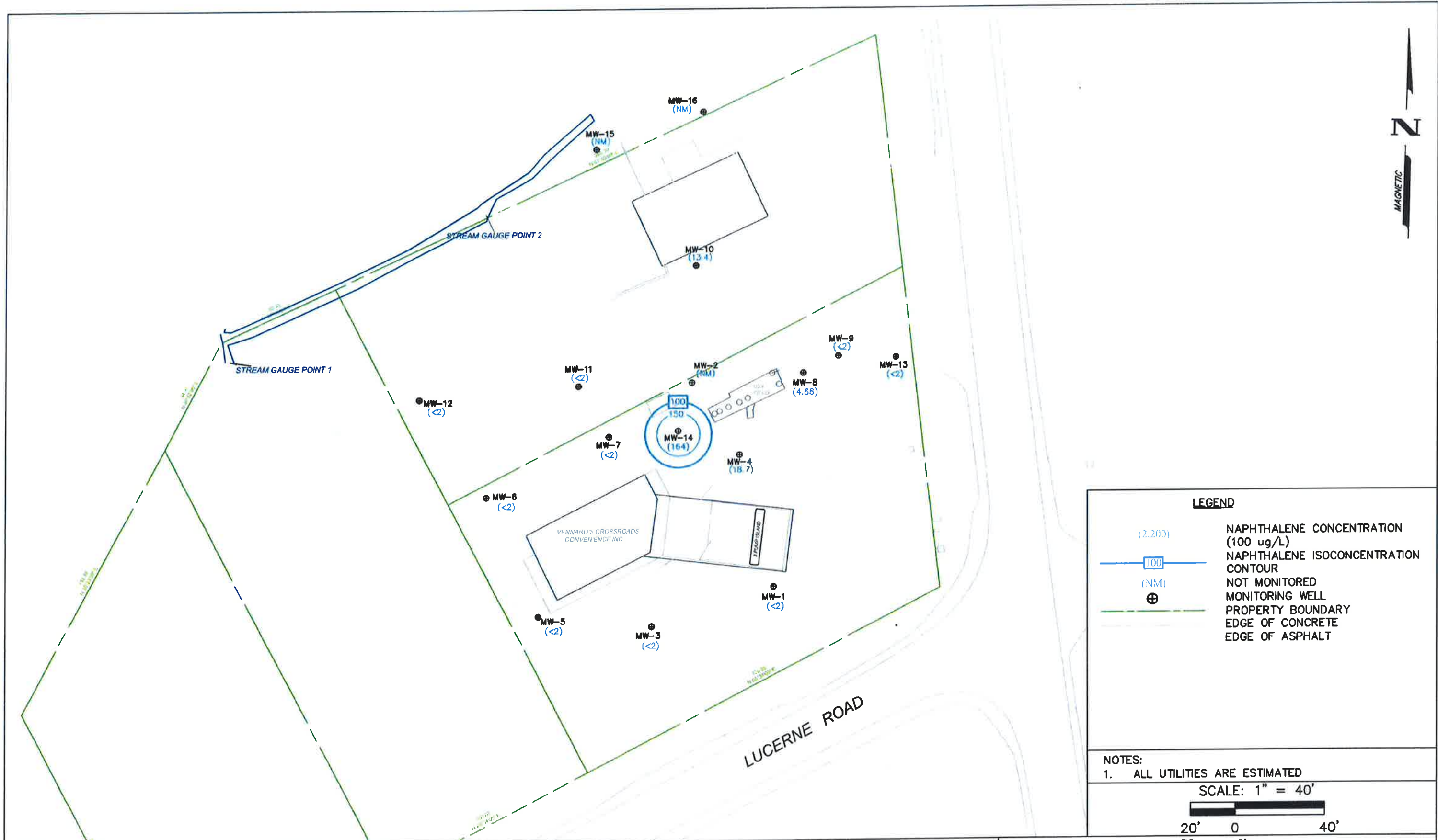
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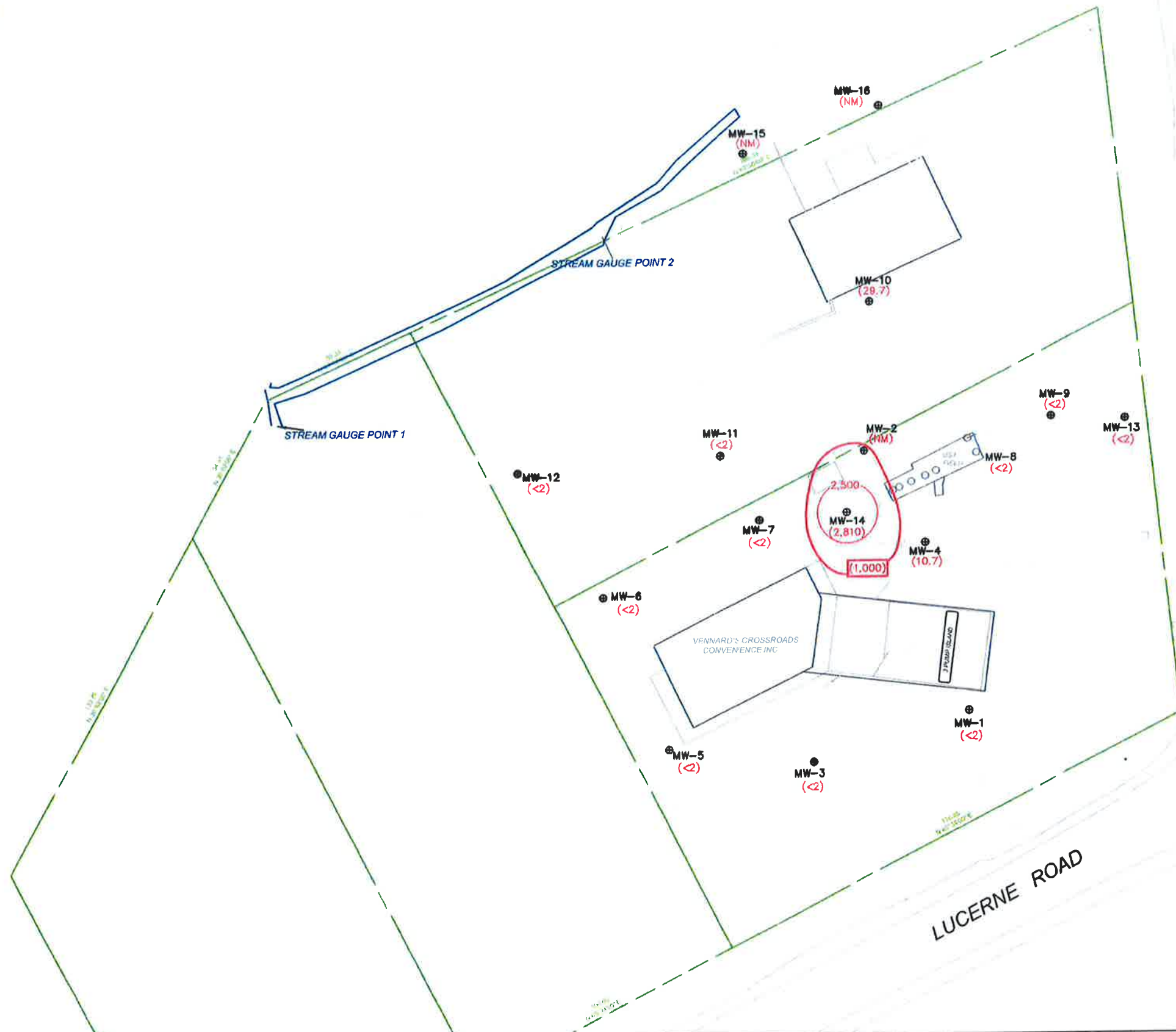
Drawn By: JMB 08-30-16
Submitted By: MEK
Project Manager: Mike K
Checked By: MEK

4644.15.01

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Vennard's
4985 Lucerne Road
Indiana, PA
**MTBE OVERBURDEN ISOCONCENTRATION
CONTOUR MAP**
May 25, 2018





LEGEND

- (2,200) TOULENE CONCENTRATION (1,000 ug/L)
- 15 TOULENE ISOCONCENTRATION CONTOUR
- (NM) NOT MONITORED
- ⊕ MONITORING WELL
- - - PROPERTY BOUNDARY
- - - EDGE OF CONCRETE
- - - EDGE OF ASPHALT

NOTES:

1. ALL UTILITIES ARE ESTIMATED

SCALE: 1" = 40'

20' 0 40'



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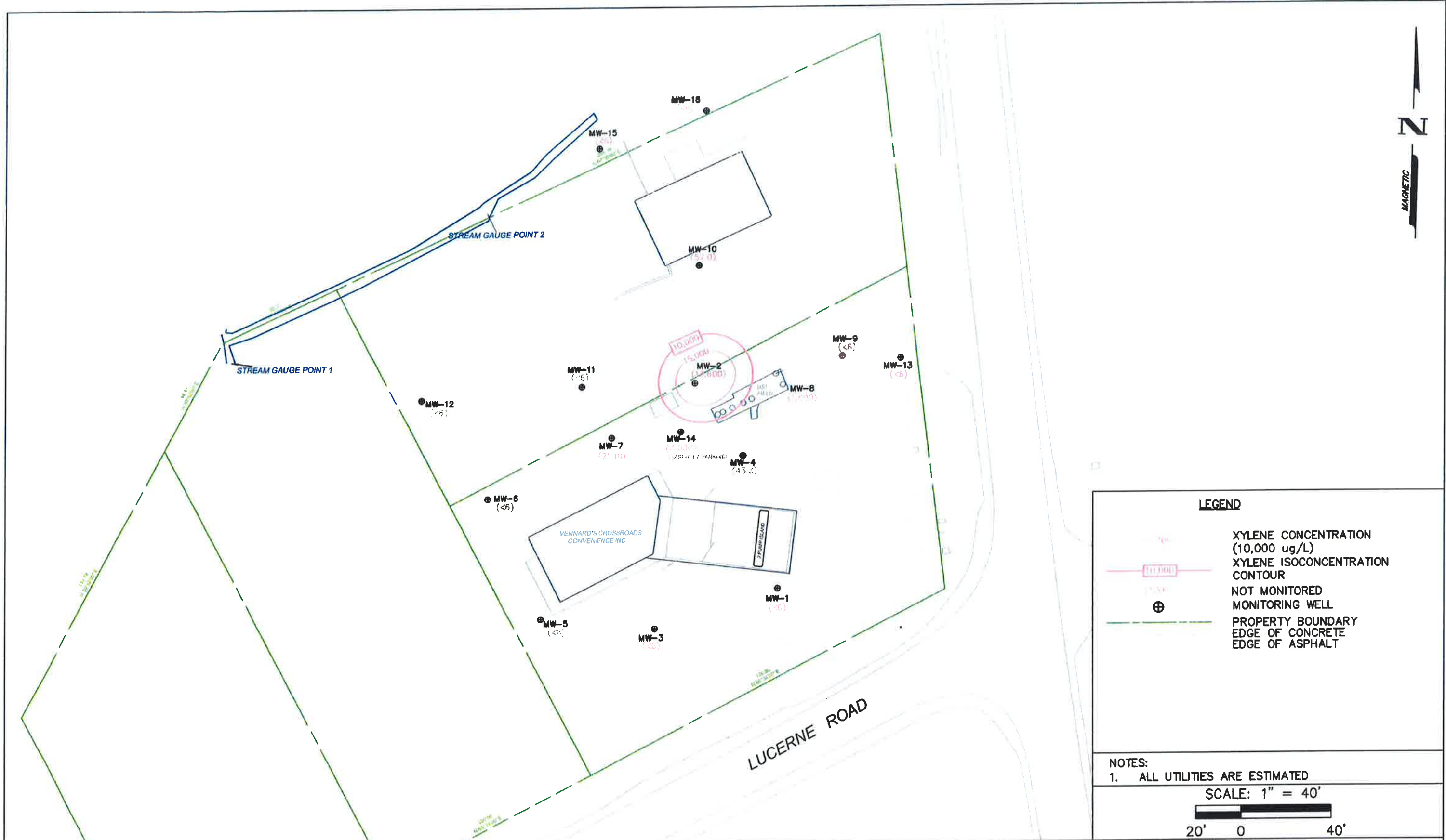
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Indiana, PA
**TOULENE OVERBURDEN ISOCONCENTRATION
CONTOUR MAP**
March 21, 2018



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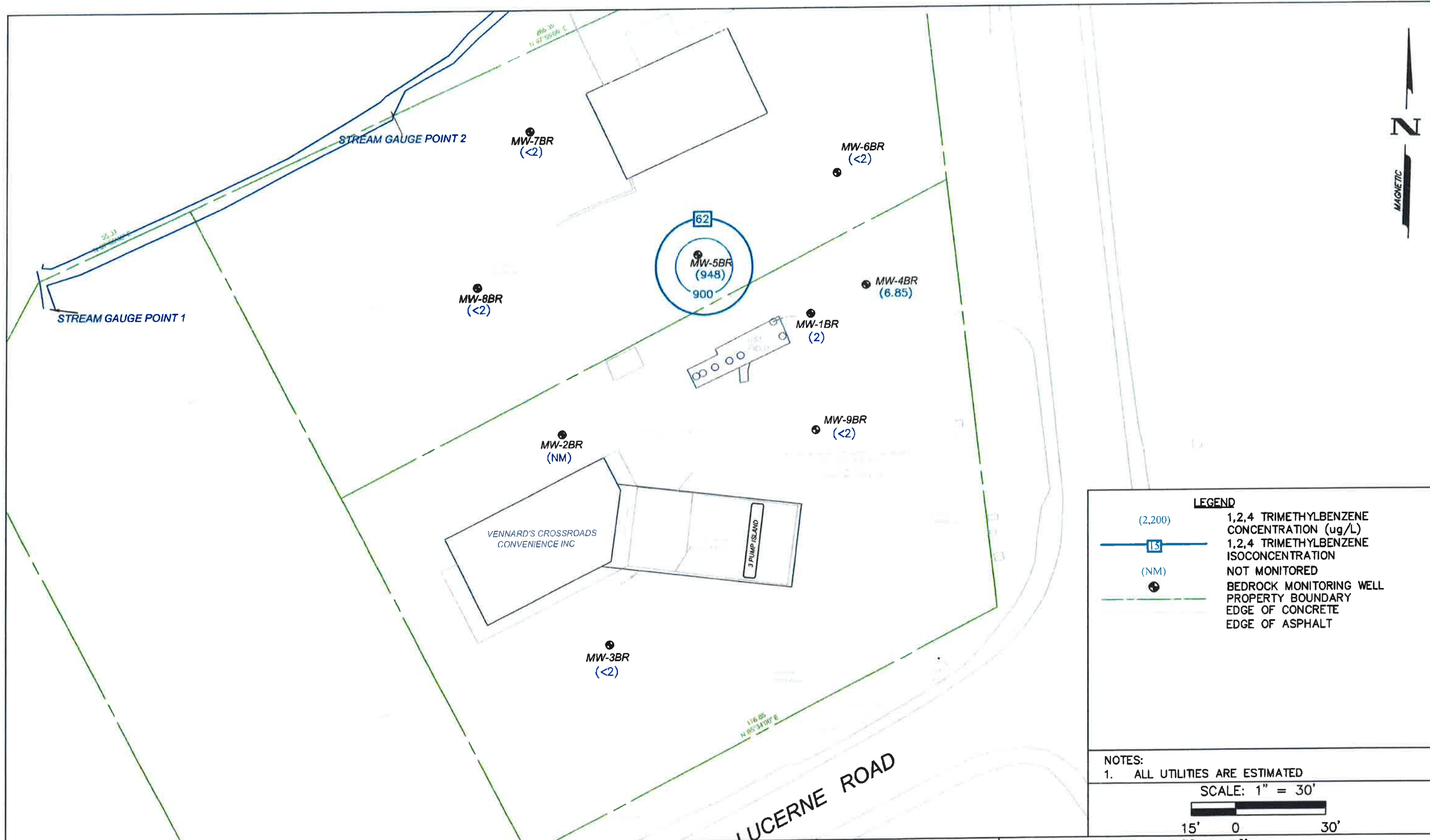
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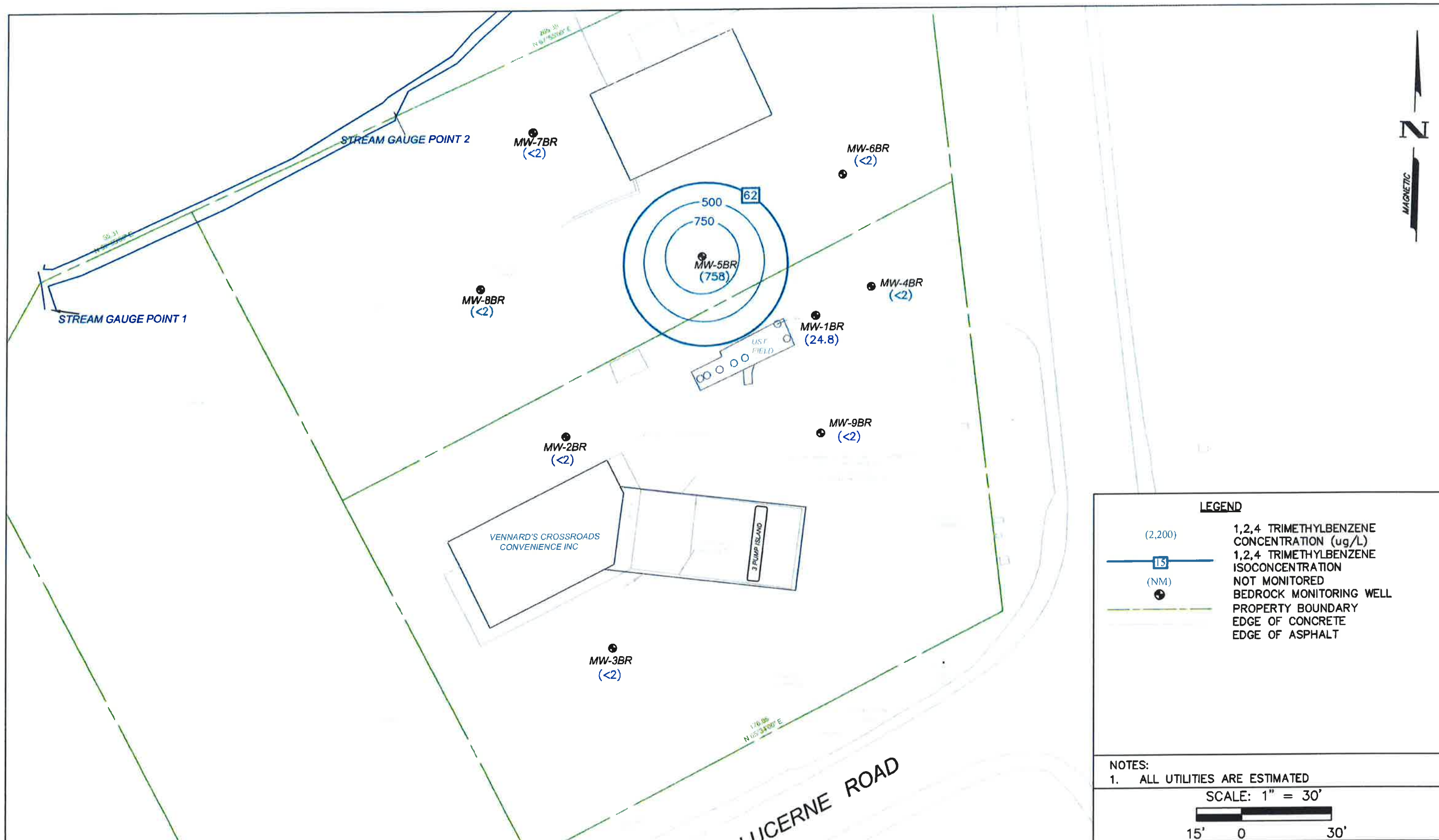
Drawn By: JMB 08-30-16
Submitted By: *MEK*
Project Manager: Mike K
Checked By: *MEK*

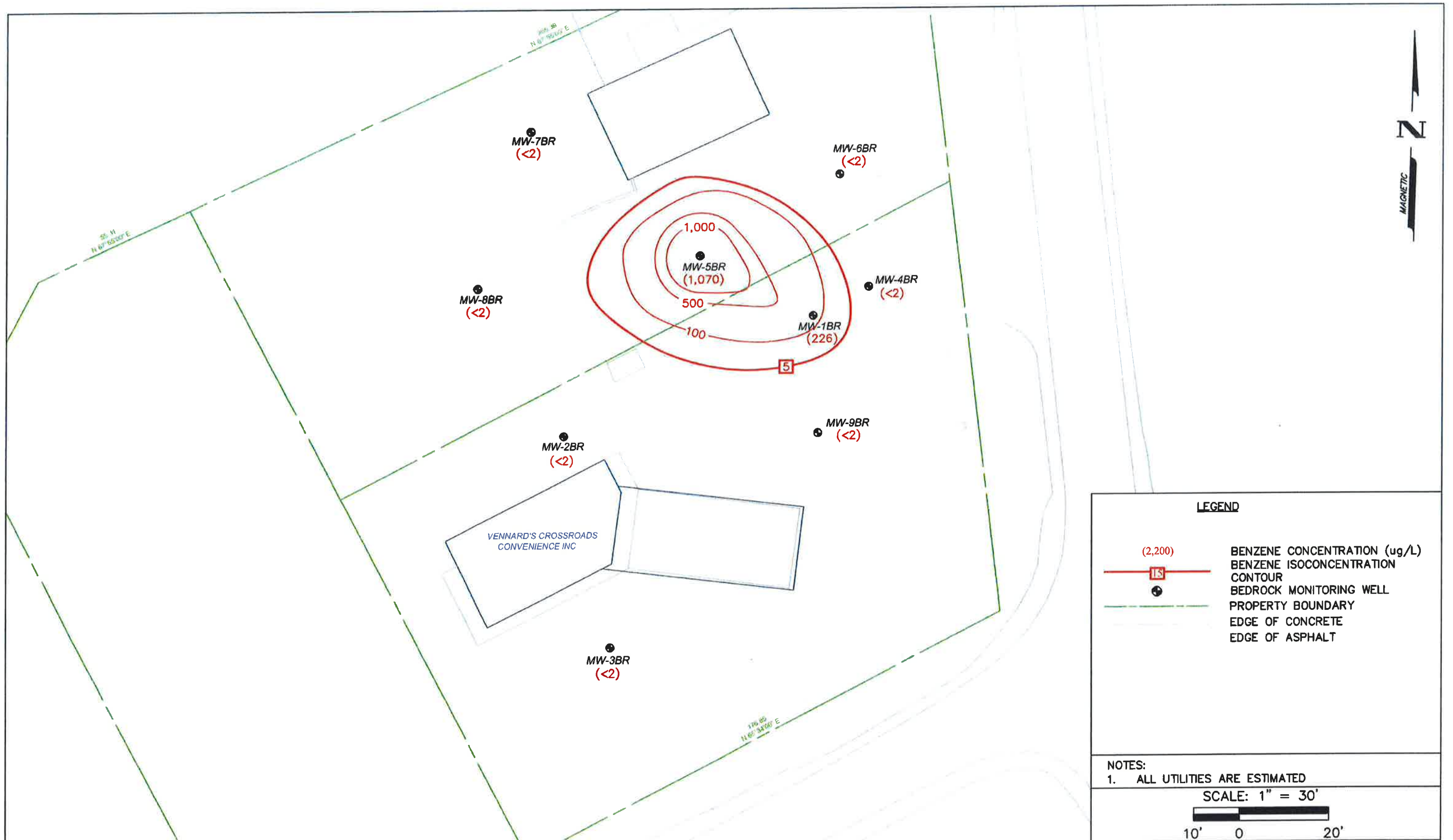
H:\Vennard's Crossroads Convenience Inc\4644.15.01 - Indiana, PA\AUTO CAD\base map (01-28-16).dwg

4644.15.01

Vennard's
4985 Lucerne Road
Indiana, PA
**TOTAL XYLENES OVERBURDEN ISOCONCENTRATION
CONTOUR MAP**
May 25, 2018







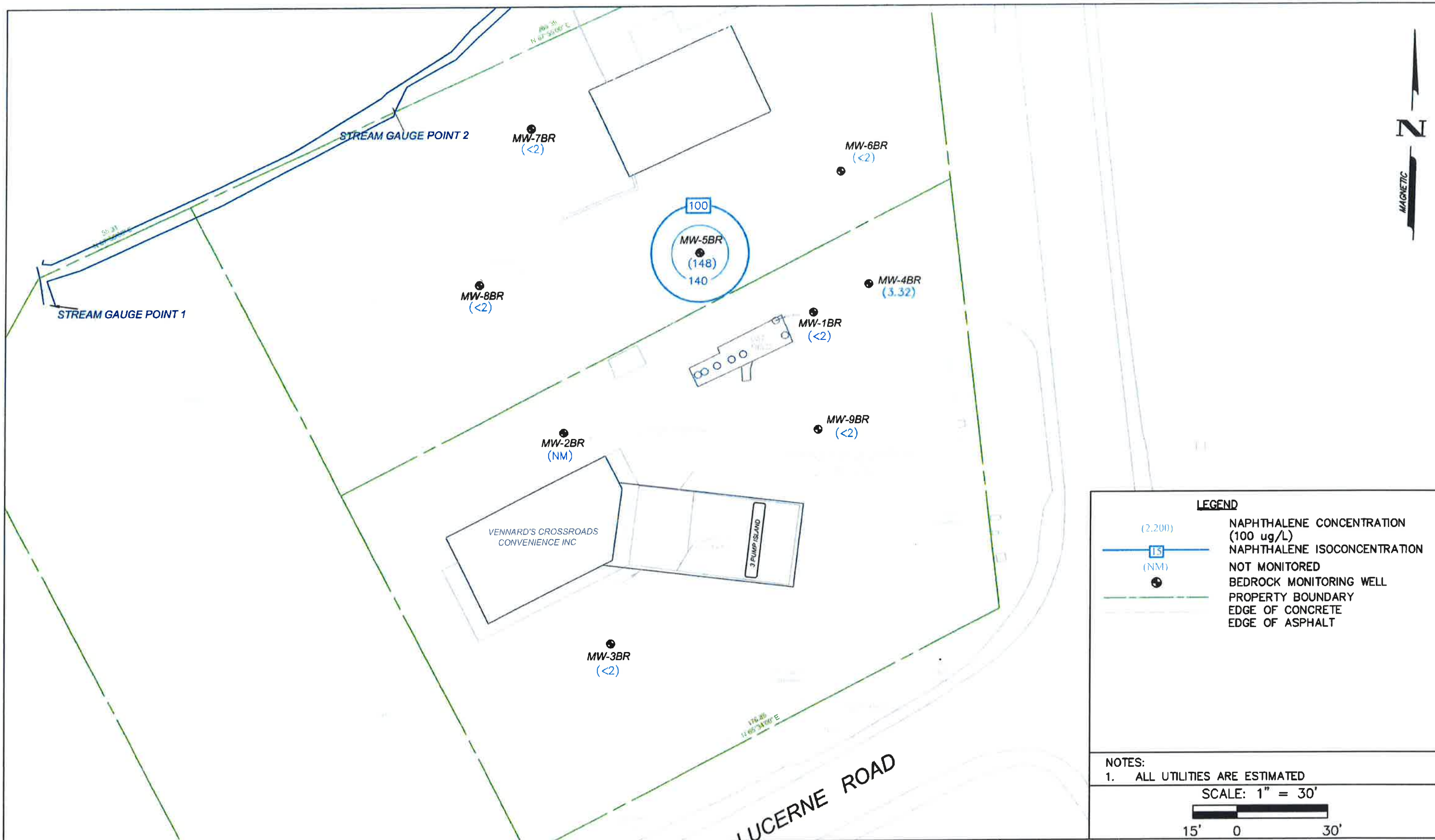
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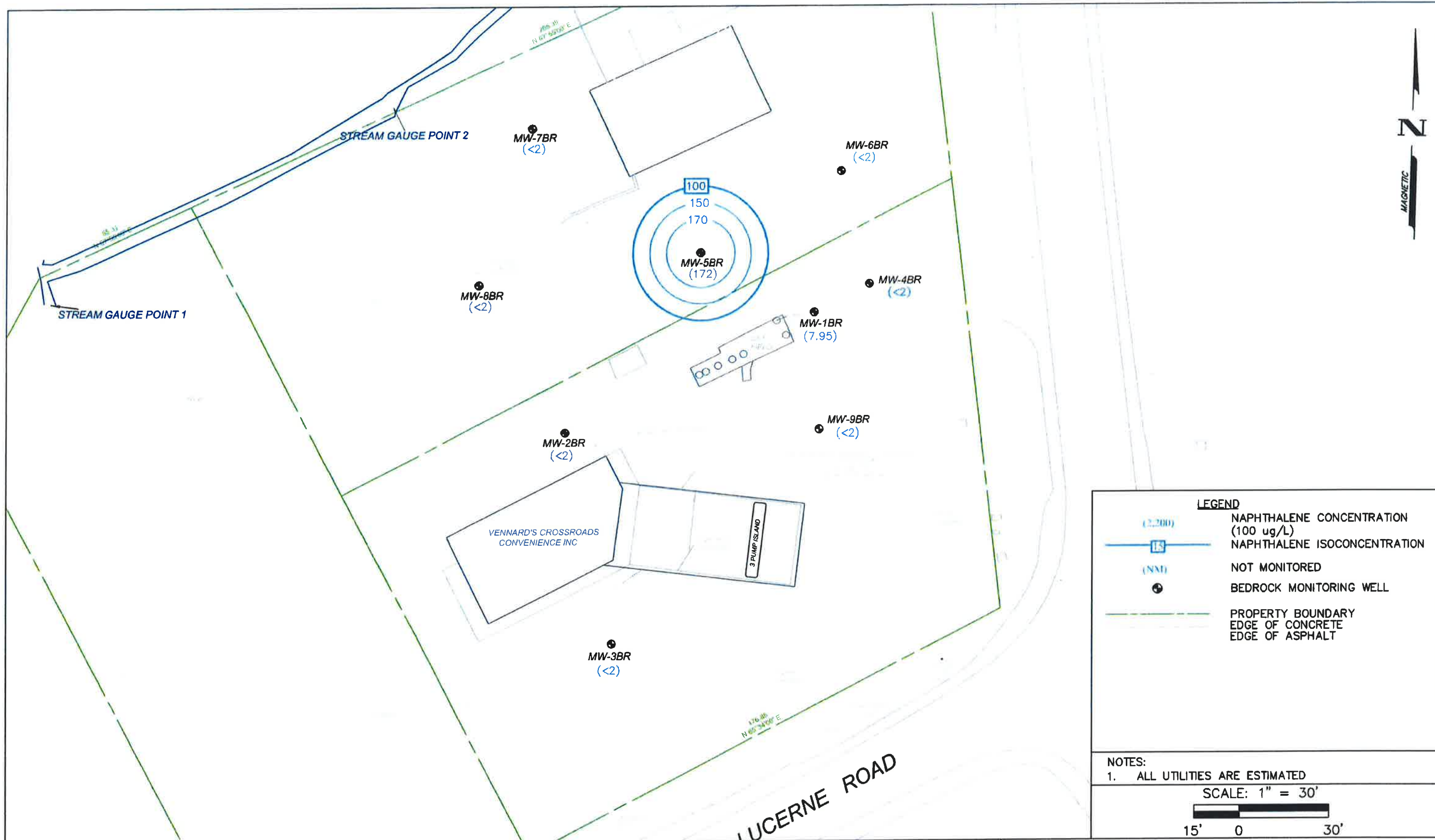
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Drawn By: JMB 08-30-16
Submitted By: MEK
Project Manager: Mike K
Checked By: MEK

4644.15.01

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APPENDIX N

LABORATORY DATA SHEETS – SOIL VAPOR

May 22, 2018

Mike Kern
Mountain Research, LLC
825 25th Street
Altoona, PA 16601

Project Location: Vapor Sampling - Indiana, PA
Client Job Number:
Project Number: 4644.15.01
Laboratory Work Order Number: 18E0961

Enclosed are results of analyses for samples received by the laboratory on May 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Aaron L. Benoit", is written over a light blue horizontal line.

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
Sample Preparation Information	11
QC Data	12
Miscellaneous Air Analyses	12
B204023	12
Air Toxics by EPA Compendium Methods	13
B203909	13
Flag/Qualifier Summary	14
Internal standard Area & RT Summary	15
Continuing Calibration Check	16
Certifications	17
Chain of Custody/Sample Receipt	18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Mountain Research, LLC
825 25th Street
Altoona, PA 16601
ATTN: Mike Kern

REPORT DATE: 5/22/2018

PURCHASE ORDER NUMBER: 17582

PROJECT NUMBER: 4644.15.01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18E0961

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Vapor Sampling - Indiana, PA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
VP-1	18E0961-01	Soil Gas		EPA 3C EPA TO-15	
VP-2	18E0961-02	Soil Gas		EPA 3C EPA TO-15	
Duplicate	18E0961-03	Soil Gas		EPA 3C EPA TO-15	



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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method TO-15, Sample 18E0961-02 had high surrogate recovery for 4-Bromofluorobenzene(2) this doesn't effect data as results are ND for compound of interest.

EPA TO-15

Qualifications:

DL-04

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

18E0961-01[VP-1], 18E0961-02[VP-2], 18E0961-03[Duplicate]

S-03

Surrogate recovery outside of control limits due to suspected sample matrix interference.

Analyte & Samples(s) Qualified:

4-Bromofluorobenzene (2)

18E0961-02[VP-2]

Isopropylbenzene (Cumene)

18E0961-02[VP-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a horizontal line.

Lisa A. Worthington
Project Manager

ANALYTICAL RESULTS

Project Location: Vapor Sampling - Indiana, PA
Date Received: 5/16/2018
Field Sample #: VP-1
Sample ID: 18E0961-01
Sample Matrix: Soil Gas
Sampled: 5/9/2018 09:48

Sample Description/Location:
Sub Description/Location:
Canister ID: 1080
Canister Size: 6 liter
Flow Controller ID: 4190
Sample Type: 30 min

Work Order: 18E0961
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA 3C

Analyte	% Results RL		Flag/Qual	Dilution	Date/Time Analyzed		Analyst
Helium	ND	0.40		1	5/21/18 23:39		TPH

ANALYTICAL RESULTS

Project Location: Vapor Sampling - Indiana, PA
Date Received: 5/16/2018
Field Sample #: VP-1
Sample ID: 18E0961-01
Sample Matrix: Soil Gas
Sampled: 5/9/2018 09:48

Sample Description/Location:
Sub Description/Location:
Canister ID: 1080
Canister Size: 6 liter
Flow Controller ID: 4190
Sample Type: 30 min

Work Order: 18E0961
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: DL-04

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	ND	0.50		ND	1.6	10	5/20/18 4:10		BRF
Ethylbenzene	ND	0.50		ND	2.2	10	5/20/18 4:10		BRF
Isopropylbenzene (Cumene)	ND	1.3		ND	6.2	10	5/20/18 4:10		BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.50		ND	1.8	10	5/20/18 4:10		BRF
Naphthalene	ND	0.50		ND	2.6	10	5/20/18 4:10		BRF
Toluene	3.0	0.50		11	1.9	10	5/20/18 4:10		BRF
1,2,4-Trimethylbenzene	1.6	0.50		8.0	2.5	10	5/20/18 4:10		BRF
1,3,5-Trimethylbenzene	ND	0.50		ND	2.5	10	5/20/18 4:10		BRF
m&p-Xylene	ND	1.0		ND	4.3	10	5/20/18 4:10		BRF
o-Xylene	ND	0.50		ND	2.2	10	5/20/18 4:10		BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	122	70-130	5/20/18 4:10
4-Bromofluorobenzene (2)	130	70-130	5/20/18 4:10

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ANALYTICAL RESULTS

Project Location: Vapor Sampling - Indiana, PA
Date Received: 5/16/2018
Field Sample #: VP-2
Sample ID: 18E0961-02
Sample Matrix: Soil Gas
Sampled: 5/9/2018 11:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1482
Canister Size: 6 liter
Flow Controller ID: 4285
Sample Type: 30 min

Work Order: 18E0961
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA 3C

Analyte	%		Flag/Qual	Dilution	Date/Time		Analyst
	Results	RL			Analyzed		
Helium	0.55	0.40		1	5/21/18 23:59		TPH

ANALYTICAL RESULTS

Project Location: Vapor Sampling - Indiana, PA
Date Received: 5/16/2018
Field Sample #: VP-2
Sample ID: 18E0961-02
Sample Matrix: Soil Gas
Sampled: 5/9/2018 11:15

Sample Description/Location:
Sub Description/Location:
Canister ID: 1482
Canister Size: 6 liter
Flow Controller ID: 4285
Sample Type: 30 min

Work Order: 18E0961
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -7.2
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: DL-04

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	45	2.0		140	6.4	40	5/20/18	5:23	BRF
Ethylbenzene	ND	2.0		ND	8.7	40	5/20/18	5:23	BRF
Isopropylbenzene (Cumene)	ND	5.1	S-03	ND	25	40	5/20/18	5:23	BRF
Methyl tert-Butyl Ether (MTBE)	ND	2.0		ND	7.2	40	5/20/18	5:23	BRF
Naphthalene	ND	2.0		ND	10	40	5/20/18	5:23	BRF
Toluene	57	2.0		210	7.5	40	5/20/18	5:23	BRF
1,2,4-Trimethylbenzene	ND	2.0		ND	9.8	40	5/20/18	5:23	BRF
1,3,5-Trimethylbenzene	ND	2.0		ND	9.8	40	5/20/18	5:23	BRF
m&p-Xylene	ND	4.0		ND	17	40	5/20/18	5:23	BRF
o-Xylene	ND	2.0		ND	8.7	40	5/20/18	5:23	BRF

Surrogates	% Recovery		% REC Limits		Date/Time	
4-Bromofluorobenzene (1)	129		70-130		5/20/18	5:23
4-Bromofluorobenzene (2)	146*	S-03	70-130		5/20/18	5:23

ANALYTICAL RESULTS

Project Location: Vapor Sampling - Indiana, PA
Date Received: 5/16/2018
Field Sample #: Duplicate
Sample ID: 18E0961-03
Sample Matrix: Soil Gas
Sampled: 5/9/2018 09:46

Sample Description/Location:
Sub Description/Location:
Canister ID: 1869
Canister Size: 6 liter
Flow Controller ID: 4194
Sample Type: 30 min

Work Order: 18E0961
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA 3C

Analyte	%		Flag/Qual	Date/Time		Analyst
	Results	RL		Dilution	Analyzed	
Helium	ND	0.40		1	5/22/18 0:17	TPH

ANALYTICAL RESULTS

Project Location: Vapor Sampling - Indiana, PA
Date Received: 5/16/2018
Field Sample #: Duplicate
Sample ID: 18E0961-03
Sample Matrix: Soil Gas
Sampled: 5/9/2018 09:46

Sample Description/Location:
Sub Description/Location:
Canister ID: 1869
Canister Size: 6 liter
Flow Controller ID: 4194
Sample Type: 30 min

Work Order: 18E0961
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -7.3
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Sample Flags: DL-04

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	ND	0.50		ND	1.6	10	5/20/18	4:47	BRF
Ethylbenzene	ND	0.50		ND	2.2	10	5/20/18	4:47	BRF
Isopropylbenzene (Cumene)	ND	1.3		ND	6.2	10	5/20/18	4:47	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.50		ND	1.8	10	5/20/18	4:47	BRF
Naphthalene	ND	0.50		ND	2.6	10	5/20/18	4:47	BRF
Toluene	3.1	0.50		12	1.9	10	5/20/18	4:47	BRF
1,2,4-Trimethylbenzene	1.8	0.50		8.7	2.5	10	5/20/18	4:47	BRF
1,3,5-Trimethylbenzene	0.50	0.50		2.5	2.5	10	5/20/18	4:47	BRF
m&p-Xylene	ND	1.0		ND	4.3	10	5/20/18	4:47	BRF
o-Xylene	ND	0.50		ND	2.2	10	5/20/18	4:47	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	112	70-130	5/20/18 4:47
4-Bromofluorobenzene (2)	123	70-130	5/20/18 4:47



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Sample Extraction Data**Prep Method: TO-15 Prep-EPA 3C**

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
18E0961-01 [VP-1]	B204023	1.5	1	N/A	1000	0.5	0.75	05/21/18
18E0961-02 [VP-2]	B204023	1.5	1	N/A	1000	0.5	0.75	05/21/18
18E0961-03 [Duplicate]	B204023	1.5	1	N/A	1000	0.5	0.75	05/22/18

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
18E0961-01 [VP-1]	B203909	1.5	1	N/A	1000	400	60	05/19/18
18E0961-02 [VP-2]	B203909	1.5	1	N/A	1000	400	15	05/19/18
18E0961-03 [Duplicate]	B203909	1.5	1	N/A	1000	400	60	05/19/18



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QUALITY CONTROL

Miscellaneous Air Analyses - Quality Control

Analyte	%		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	%	Result	%REC	Limits	RPD	Limit	
Batch B204023 - TO-15 Prep											
Blank (B204023-BLK1)					Prepared & Analyzed: 05/21/18						
Helium	ND	0.40									
LCS (B204023-BS1)					Prepared & Analyzed: 05/21/18						
Helium	0.520				0.500		104	70-130			

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							

Batch B203909 - TO-15 Prep

Blank (B203909-BLK1)

Prepared & Analyzed: 05/19/18

Benzene	ND	0.020
Ethylbenzene	ND	0.020
Isopropylbenzene (Cumene)	ND	0.051
Methyl tert-Butyl Ether (MTBE)	ND	0.020
Naphthalene	ND	0.020
Toluene	ND	0.020
1,2,4-Trimethylbenzene	ND	0.020
1,3,5-Trimethylbenzene	ND	0.020
m&p-Xylene	ND	0.040
o-Xylene	ND	0.020

Surrogate: 4-Bromofluorobenzene (1)	7.99	8.00	99.9	70-130
Surrogate: 4-Bromofluorobenzene (2)	8.24	8.00	103	70-130

LCS (B203909-BS1)

Prepared & Analyzed: 05/19/18

Benzene	5.02	5.00	100	70-130
Ethylbenzene	4.96	5.00	99.2	70-130
Isopropylbenzene (Cumene)	1.15	1.27	90.8	70-130
Methyl tert-Butyl Ether (MTBE)	4.90	5.00	98.0	70-130
Naphthalene	6.04	5.00	121	70-130
Toluene	5.48	5.00	110	70-130
1,2,4-Trimethylbenzene	5.01	5.00	100	70-130
1,3,5-Trimethylbenzene	5.10	5.00	102	70-130
m&p-Xylene	9.25	10.0	92.5	70-130
o-Xylene	4.82	5.00	96.4	70-130

Surrogate: 4-Bromofluorobenzene (1)	8.12	8.00	101	70-130
Surrogate: 4-Bromofluorobenzene (2)	8.19	8.00	102	70-130

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*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
S-03	Surrogate recovery outside of control limits due to suspected sample matrix interference.

INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S023405-CCV1)									
Lab File ID: G051904.D					Analyzed: 05/19/18 11:37				
Bromochloromethane (1)	353019	8.563	377661	8.563	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1125674	10.471	1175258	10.471	96	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	744313	15.263	743031	15.263	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1173737	10.471	1154665	10.471	102	60 - 140	0.0000	+/-0.50	
LCS (B203909-BS1)									
Lab File ID: G051905.D					Analyzed: 05/19/18 12:14				
Bromochloromethane (1)	363069	8.563	353019	8.563	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1166777	10.471	1125674	10.471	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	758725	15.263	744313	15.263	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1201507	10.471	1173737	10.471	102	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	149146	15.257	146313	15.263	102	60 - 140	-0.0060	+/-0.50	
Blank (B203909-BLK1)									
Lab File ID: G051910.D					Analyzed: 05/19/18 15:54				
Bromochloromethane (1)	353192	8.563	353019	8.563	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1096102	10.471	1125674	10.471	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	726493	15.257	744313	15.263	98	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (2)	1096102	10.471	1173737	10.471	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	142456	15.257	146313	15.263	97	60 - 140	-0.0060	+/-0.50	
VP-1 (18E0961-01)									
Lab File ID: G051929.D					Analyzed: 05/20/18 04:10				
Bromochloromethane (1)	350688	8.569	353019	8.563	99	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	1138359	10.477	1125674	10.471	101	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	671661	15.257	744313	15.263	90	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (2)	1138359	10.477	1173737	10.471	97	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	127271	15.257	146313	15.263	87	60 - 140	-0.0060	+/-0.50	
Duplicate (18E0961-03)									
Lab File ID: G051930.D					Analyzed: 05/20/18 04:47				
Bromochloromethane (1)	361629	8.569	353019	8.563	102	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	1221765	10.477	1125674	10.471	109	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	769888	15.263	744313	15.263	103	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	1221765	10.477	1173737	10.471	104	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	141963	15.263	146313	15.263	97	60 - 140	0.0000	+/-0.50	
VP-2 (18E0961-02)									
Lab File ID: G051931.D					Analyzed: 05/20/18 05:23				
Bromochloromethane (1)	359339	8.563	353019	8.563	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	1331531	10.477	1125674	10.471	118	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	651873	15.257	744313	15.263	88	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (2)	1331531	10.477	1173737	10.471	113	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	116127	15.257	146313	15.263	79	60 - 140	-0.0060	+/-0.50	

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CONTINUING CALIBRATION CHECK

EPA TO-15

S023405-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	5.00	4.81	0.6985547	0.672368		-3.7	30
Ethylbenzene	A	5.00	4.67	1.275191	1.191613		-6.6	30
Isopropylbenzene (Cumene)	A	1.27	1.20	12.9608	12.3284		-4.9	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.93	1.702455	1.678205		-1.4	30
Naphthalene	A	5.00	6.05	1.194238	1.445514		21.0	30
Toluene	A	5.00	5.20	1.003866	1.043542		4.0	30
1,2,4-Trimethylbenzene	A	5.00	4.59	1.309593	1.201881		-8.2	30
1,3,5-Trimethylbenzene	A	5.00	4.74	1.322383	1.254191		-5.2	30
m&p-Xylene	A	10.0	8.84	0.9976434	0.8816699		-11.6	30
o-Xylene	A	5.00	4.51	1.009296	0.9096023		-9.9	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Benzene	AIHA,FL,NJ,NY,VA,ME
Ethylbenzene	AIHA,FL,NJ,NY,VA,ME
Isopropylbenzene (Cumene)	AIHA,NJ,NY,ME
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA,ME
Naphthalene	NY,ME
Toluene	AIHA,FL,NJ,NY,VA,ME
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME
m&p-Xylene	AIHA,FL,NJ,NY,VA,ME
o-Xylene	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



FedEx Tracking

772199407631

Ship date

Mon 5/14/2018

Alltoona, PA US

Actual delivery:

Wed 5/16/2018 12:59 pm

EAST LONGMEADOW, MA US

**Delivered**

Signed for by: PBLAKE

Travel History

▲ Date/Time	Activity	Location
■ 5/16/2018 - Wednesday		
12:59 pm	Delivered	East Longmeadow, MA
3:22 am	On FedEx vehicle for delivery	CHICOPEE, MA
3:12 am	At local FedEx facility	CHICOPEE, MA
12:31 am	Departed FedEx location	SOUTH WINDSOR, CT
■ 5/15/2018 - Tuesday		
3:35 pm	Arrived at FedEx location	SOUTH WINDSOR, CT
7:24 am	Departed FedEx location	LEWISBERRY, PA
■ 5/14/2018 - Monday		
11:58 pm	Arrived at FedEx location	LEWISBERRY, PA
7:35 pm	Left FedEx origin facility	DUNCANVILLE, PA
4:59 pm	Arrived at FedEx location	DUNCANVILLE, PA
4:01 pm	Picked up	DUNCANVILLE, PA
■ 5/10/2018 - Thursday		
9:49 am	Shipment information sent to FedEx	

Shipment Facts

Tracking Number	772199407631	Service	FedEx Ground
Reference	Project #4644.15.01	Weight	24 lbs / 10.89 kgs
Dimensions	22x19x14 in.	Total pieces	1
Terms	Recipient	Purchase order number	25183
Packaging	Package	Standard transit	5/16/2018

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August 9, 2018

Mike Kern
Mountain Research, LLC
825 25th Street
Altoona, PA 16601

Project Location: Vapor Sampling-Indiana, PA
Client Job Number:
Project Number: 4644.15.01
Laboratory Work Order Number: 18H0090

Enclosed are results of analyses for samples received by the laboratory on August 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron L. Benoit", is written over a light blue horizontal line.

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
Sample Preparation Information	11
QC Data	12
Miscellaneous Air Analyses	12
B209758	12
Air Toxics by EPA Compendium Methods	13
B209648	13
Flag/Qualifier Summary	14
Internal standard Area & RT Summary	15
Continuing Calibration Check	16
Certifications	17
Chain of Custody/Sample Receipt	18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332Mountain Research, LLC
825 25th Street
Altoona, PA 16601
ATTN: Mike Kern

REPORT DATE: 8/9/2018

PURCHASE ORDER NUMBER: 25549

PROJECT NUMBER: 4644.15.01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0090

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Vapor Sampling-Indiana, PA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
VP-1	18H0090-01	Soil Gas		EPA 3C EPA TO-15	
VP-2	18H0090-02	Soil Gas		EPA 3C EPA TO-15	
Duplicate	18H0090-03	Soil Gas		EPA 3C EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written in a cursive style.

Lisa A. Worthington
Project Manager

ANALYTICAL RESULTS

Project Location: Vapor Sampling-Indiana, PA
Date Received: 8/1/2018
Field Sample #: VP-1
Sample ID: 18H0090-01
Sample Matrix: Soil Gas
Sampled: 7/27/2018 10:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1958
Canister Size: 6 liter
Flow Controller ID: 4315
Sample Type: 30 min

Work Order: 18H0090
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA 3C

Analyte	%		Flag/Qual	Dilution	Date/Time		Analyst
	Results	RL			Analyzed		
Helium	ND	0.40		1	8/7/18 13:45		TPH

ANALYTICAL RESULTS

Project Location: Vapor Sampling-Indiana, PA
Date Received: 8/1/2018
Field Sample #: VP-1
Sample ID: 18H0090-01
Sample Matrix: Soil Gas
Sampled: 7/27/2018 10:45

Sample Description/Location:
Sub Description/Location:
Canister ID: 1958
Canister Size: 6 liter
Flow Controller ID: 4315
Sample Type: 30 min

Work Order: 18H0090
Initial Vacuum(in Hg): -29
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time Analyzed	Analyst
	Results	RL		Results	RL			
Benzene	2.6	2.0		8.4	6.4	40	8/3/18 20:31	BRF
Ethylbenzene	ND	2.0		ND	8.7	40	8/3/18 20:31	BRF
Isopropylbenzene (Cumene)	ND	5.1		ND	25	40	8/3/18 20:31	BRF
Methyl tert-Butyl Ether (MTBE)	ND	2.0		ND	7.2	40	8/3/18 20:31	BRF
Naphthalene	ND	2.0		ND	10	40	8/3/18 20:31	BRF
Toluene	ND	2.0		ND	7.5	40	8/3/18 20:31	BRF
1,2,4-Trimethylbenzene	ND	2.0		ND	9.8	40	8/3/18 20:31	BRF
1,3,5-Trimethylbenzene	ND	2.0		ND	9.8	40	8/3/18 20:31	BRF
m&p-Xylene	ND	4.0		ND	17	40	8/3/18 20:31	BRF
o-Xylene	ND	2.0		ND	8.7	40	8/3/18 20:31	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.5	70-130	8/3/18 20:31
4-Bromofluorobenzene (2)	103	70-130	8/3/18 20:31

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ANALYTICAL RESULTS

Project Location: Vapor Sampling-Indiana, PA
Date Received: 8/1/2018
Field Sample #: VP-2
Sample ID: 18H0090-02
Sample Matrix: Soil Gas
Sampled: 7/27/2018 09:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 1309
Canister Size: 6 liter
Flow Controller ID: 4171
Sample Type: 30 min

Work Order: 18H0090
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA 3C

Analyte	%		Flag/Qual	Dilution	Date/Time		Analyst
	Results	RL			Analyzed		
Helium	ND	0.40		1	8/7/18 14:15		TPH

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ANALYTICAL RESULTS

Project Location: Vapor Sampling-Indiana, PA
Date Received: 8/1/2018
Field Sample #: VP-2
Sample ID: 18H0090-02
Sample Matrix: Soil Gas
Sampled: 7/27/2018 09:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 1309
Canister Size: 6 liter
Flow Controller ID: 4171
Sample Type: 30 min

Work Order: 18H0090
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -6.5
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.96	0.20		3.1	0.64	4	8/3/18	18:14	BRF
Ethylbenzene	0.41	0.20		1.8	0.87	4	8/3/18	18:14	BRF
Isopropylbenzene (Cumene)	ND	0.51		ND	2.5	4	8/3/18	18:14	BRF
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	8/3/18	18:14	BRF
Naphthalene	ND	0.20		ND	1.0	4	8/3/18	18:14	BRF
Toluene	3.2	0.20		12	0.75	4	8/3/18	18:14	BRF
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	8/3/18	18:14	BRF
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	8/3/18	18:14	BRF
m&p-Xylene	0.56	0.40		2.4	1.7	4	8/3/18	18:14	BRF
o-Xylene	0.23	0.20		1.0	0.87	4	8/3/18	18:14	BRF

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	95.7	70-130	8/3/18 18:14
4-Bromofluorobenzene (2)	101	70-130	8/3/18 18:14

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ANALYTICAL RESULTS

Project Location: Vapor Sampling-Indiana, PA
Date Received: 8/1/2018
Field Sample #: Duplicate
Sample ID: 18H0090-03
Sample Matrix: Soil Gas
Sampled: 7/27/2018 09:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 1457
Canister Size: 6 liter
Flow Controller ID: 4314
Sample Type: 30 min

Work Order: 18H0090
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -10.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA 3C

Analyte	% Results RL		Flag/Qual	Dilution	Date/Time Analyzed		Analyst
Hclium	ND	0.40		1	8/7/18 14:35		TPH

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ANALYTICAL RESULTS

Project Location: Vapor Sampling-Indiana, PA
Date Received: 8/1/2018
Field Sample #: Duplicate
Sample ID: 18H0090-03
Sample Matrix: Soil Gas
Sampled: 7/27/2018 09:25

Sample Description/Location:
Sub Description/Location:
Canister ID: 1457
Canister Size: 6 liter
Flow Controller ID: 4314
Sample Type: 30 min

Work Order: 18H0090
Initial Vacuum(in Hg): -27
Final Vacuum(in Hg): -8
Receipt Vacuum(in Hg): -10.9
Flow Controller Type: Fixed-Orifice
Flow Controller Calibration
RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Benzene	0.70	0.20		2.2	0.64	4	8/3/18 19:46	BRF	
Ethylbenzene	0.59	0.20		2.6	0.87	4	8/3/18 19:46	BRF	
Isopropylbenzene (Cumene)	ND	0.51		ND	2.5	4	8/3/18 19:46	BRF	
Methyl tert-Butyl Ether (MTBE)	ND	0.20		ND	0.72	4	8/3/18 19:46	BRF	
Naphthalene	ND	0.20		ND	1.0	4	8/3/18 19:46	BRF	
Toluene	2.5	0.20		9.4	0.75	4	8/3/18 19:46	BRF	
1,2,4-Trimethylbenzene	ND	0.20		ND	0.98	4	8/3/18 19:46	BRF	
1,3,5-Trimethylbenzene	ND	0.20		ND	0.98	4	8/3/18 19:46	BRF	
m&p-Xylene	0.43	0.40		1.9	1.7	4	8/3/18 19:46	BRF	
o-Xylene	ND	0.20		ND	0.87	4	8/3/18 19:46	BRF	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	97.0	70-130	8/3/18 19:46
4-Bromofluorobenzene (2)	102	70-130	8/3/18 19:46

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Sample Extraction Data

Prep Method: TO-15 Prep-EPA 3C

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
18H0090-01 [VP-1]	B209758	1.5	1	N/A	1000	0.5	0.75	08/07/18
18H0090-02 [VP-2]	B209758	1.5	1	N/A	1000	0.5	0.75	08/07/18
18H0090-03 [Duplicate]	B209758	2	1	N/A	1000	0.5	1.0	08/07/18

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
18H0090-01 [VP-1]	B209648	1.5	1	N/A	1000	400	15	08/03/18
18H0090-02 [VP-2]	B209648	1.5	1	N/A	1000	400	150	08/03/18
18H0090-03 [Duplicate]	B209648	2	1	N/A	1000	400	200	08/03/18

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QUALITY CONTROL

Miscellaneous Air Analyses - Quality Control

Analyte	%		ug/m3		Spike Level %	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B209758 - TO-15 Prep											
Blank (B209758-BLK1)					Prepared & Analyzed: 08/07/18						
Helium	ND	0.40									
LCS (B209758-BS1)					Prepared & Analyzed: 08/07/18						
Helium	0.520				0.500		104	70-130			
Duplicate (B209758-DUP1)					Source: 18H0090-03 Prepared & Analyzed: 08/07/18						
Helium	0.13	0.40			0.12				8.00	25	

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QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	%REC	Limits	RPD	Limit	
Batch B209648 - TO-15 Prep											
Blank (B209648-BLK1)					Prepared & Analyzed: 08/03/18						
Benzene	ND	0.035									
Ethylbenzene	ND	0.035									
Isopropylbenzene (Cumene)	ND	0.089									
Methyl tert-Butyl Ether (MTBE)	ND	0.035									
Naphthalene	ND	0.035									
Toluene	ND	0.035									
1,2,4-Trimethylbenzene	ND	0.035									
1,3,5-Trimethylbenzene	ND	0.035									
m&p-Xylene	ND	0.070									
o-Xylene	ND	0.035									
Surrogate: 4-Bromofluorobenzene (1)	7.77				8.00		97.1	70-130			
Surrogate: 4-Bromofluorobenzene (2)	8.20				8.00		102	70-130			
LCS (B209648-BS1)					Prepared & Analyzed: 08/03/18						
Benzene	5.03				5.00		101	70-130			
Ethylbenzene	5.12				5.00		102	70-130			
Isopropylbenzene (Cumene)	0.945				1.27		74.4	70-130			
Methyl tert-Butyl Ether (MTBE)	4.26				5.00		85.2	70-130			
Naphthalene	4.69				5.00		93.8	70-130			
Toluene	5.04				5.00		101	70-130			
1,2,4-Trimethylbenzene	5.39				5.00		108	70-130			
1,3,5-Trimethylbenzene	5.23				5.00		105	70-130			
m&p-Xylene	10.5				10.0		105	70-130			
o-Xylene	5.28				5.00		106	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.15				8.00		102	70-130			
Surrogate: 4-Bromofluorobenzene (2)	7.84				8.00		98.0	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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INTERNAL STANDARD AREA AND RT SUMMARY

EPA TO-15

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B209648-BS1)									
Lab File ID: H080305.D					Analyzed: 08/03/18 14:17				
Bromochloromethane (1)	232600	9.214	228831	9.214	102	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	535555	11.116	517723	11.116	103	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	483229	15.914	439216	15.908	110	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (2)	523199	11.116	501712	11.116	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	493874	15.914	475609	15.914	104	60 - 140	0.0000	+/-0.50	
Blank (B209648-BLK1)									
Lab File ID: H080309.D					Analyzed: 08/03/18 17:28				
Bromochloromethane (1)	215587	9.208	228831	9.214	94	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	472775	11.116	517723	11.116	91	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	431760	15.908	439216	15.908	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	472775	11.116	501712	11.116	94	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	431923	15.908	475609	15.914	91	60 - 140	-0.0060	+/-0.50	
VP-2 (18H0090-02)									
Lab File ID: H080310.D					Analyzed: 08/03/18 18:14				
Bromochloromethane (1)	220546	9.208	228831	9.214	96	60 - 140	-0.0060	+/-0.50	
1,4-Difluorobenzene (1)	490999	11.116	517723	11.116	95	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	455039	15.914	439216	15.908	104	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (2)	490999	11.116	501712	11.116	98	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	455039	15.914	475609	15.914	96	60 - 140	0.0000	+/-0.50	
Duplicate (18H0090-03)									
Lab File ID: H080312.D					Analyzed: 08/03/18 19:46				
Bromochloromethane (1)	223238	9.22	228831	9.214	98	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	492967	11.122	517723	11.116	95	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	457130	15.908	439216	15.908	104	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	492827	11.122	501712	11.116	98	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	457258	15.908	475609	15.914	96	60 - 140	-0.0060	+/-0.50	
VP-1 (18H0090-01)									
Lab File ID: H080313.D					Analyzed: 08/03/18 20:31				
Bromochloromethane (1)	213282	9.22	228831	9.214	93	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	482837	11.122	517723	11.116	93	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (1)	472689	15.908	439216	15.908	108	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	482837	11.122	501712	11.116	96	60 - 140	0.0060	+/-0.50	
Chlorobenzene-d5 (2)	472808	15.908	475609	15.914	99	60 - 140	-0.0060	+/-0.50	

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CONTINUING CALIBRATION CHECK

COMPOUND	TYPE			RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Benzene	AIHA,FL,NJ,NY,VA,ME
Ethylbenzene	AIHA,FL,NJ,NY,VA,ME
Isopropylbenzene (Cumene)	AIHA,NJ,NY,ME
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,VA,ME
Naphthalene	NY,ME
Toluene	AIHA,FL,NJ,NY,VA,ME
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME
m&p-Xylene	AIHA,FL,NJ,NY,VA,ME
o-Xylene	AIHA,FL,NJ,NY,VA,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H0090
Phone: 413-525-2332
Fax: 413-525-6405



Email: info@contestlabs.com

Company Name: Mountain Research

Address: 825 25th Street, Altamont, PA 16601

Phone: 814-949-3034

Project Name: Vapor Sampling

Project Location: Indiana, PA

Project Number: 4644.15.01

Project Manager: Mike Kern

Con-Test Quote Name/Number: Po # 26549

Invoice Recipient:

Sampled By: Mike Caccese

Requested Turnaround Time		Due Date:		Rush Approval Required		Data Delivery		Format: PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/>		Other: <input type="checkbox"/>		CLP Like Data Pkg Required: <input type="checkbox"/>		Email To: Mike@MountainResearch.com		Fax To #: <input type="checkbox"/>	
7-Day	10-Day	1-Day	2-Day	3-Day	4-Day	PDF	EXCEL	Other	CLP Like Data Pkg Required	Email To	Fax To	CLP Like Data Pkg Required	Email To	Fax To	CLP Like Data Pkg Required	Email To	Fax To
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Collection Data		Beginning Date/Time		Ending Date/Time		Duration		Flow Rate		Matrix		Volume		Litters		m ³	
Client Use		Client Sample ID / Description		Client Sample ID / Description		Client Sample ID / Description		Client Sample ID / Description		Client Sample ID / Description		Client Sample ID / Description		Client Sample ID / Description		Client Sample ID / Description	
01		VP-1		VP-1		VP-1		VP-1		VP-1		VP-1		VP-1		VP-1	
02		VP-2		VP-2		VP-2		VP-2		VP-2		VP-2		VP-2		VP-2	
03		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate	

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Matrix Codes:

SG = SOIL GAS
IA = INDOOR AIR
AMB = AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = Other



Special Requirements
MA MCP Required ☐
MCP Certification Form Required ☐
CT RCP Required ☐
RCP Certification Form Required ☐
Other ☐

Date/Time: 7-27-18 13:30
Date/Time: 8-1-18 11:16
Date/Time: ☐

Relinquished by: (signature)
Received by: (signature)
Relinquished by: (signature)
Received by: (signature)
Relinquished by: (signature)
Received by: (signature)

772838967226 

Delivered
Wednesday 8/01/2018 at 11:16 am

**DELIVERED**

Signed for by: PBLAKE

GET STATUS UPDATES**OBTAIN PROOF OF DELIVERY****FROM**

Altoona, PA US

TO

EAST LONGMEADOW, MA US

8/01/2018 - Wednesday

11:16 am

Delivered

East Longmeadow, MA

Expand History 

7/27/2018 - Friday

3:23 pm

Shipment information sent to FedEx

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APPENDIX O

PNDI RECEIPT AND WETLANDS MAP

1. PROJECT INFORMATION

Project Name: **Vennard's**

Date of Review: **11/3/2016 01:18:53 PM**

Project Category: **Hazardous Waste Clean-up, Site Remediation, and Reclamation, Spill (e.g., oil, chemical)**

Project Area: **0.65 acres**

County(s): **Indiana**

Township/Municipality(s): **WHITE**

ZIP Code: **15701**

Quadrangle Name(s): **INDIANA**

Watersheds HUC 8: **Conemaugh**

Watersheds HUC 12: **Yellow Creek Lake-Yellow Creek**

Decimal Degrees: **40.575912, -79.133157**

Degrees Minutes Seconds: **40° 34' 33.2821" N, 79° 7' 59.3668" W**

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

Vennard's

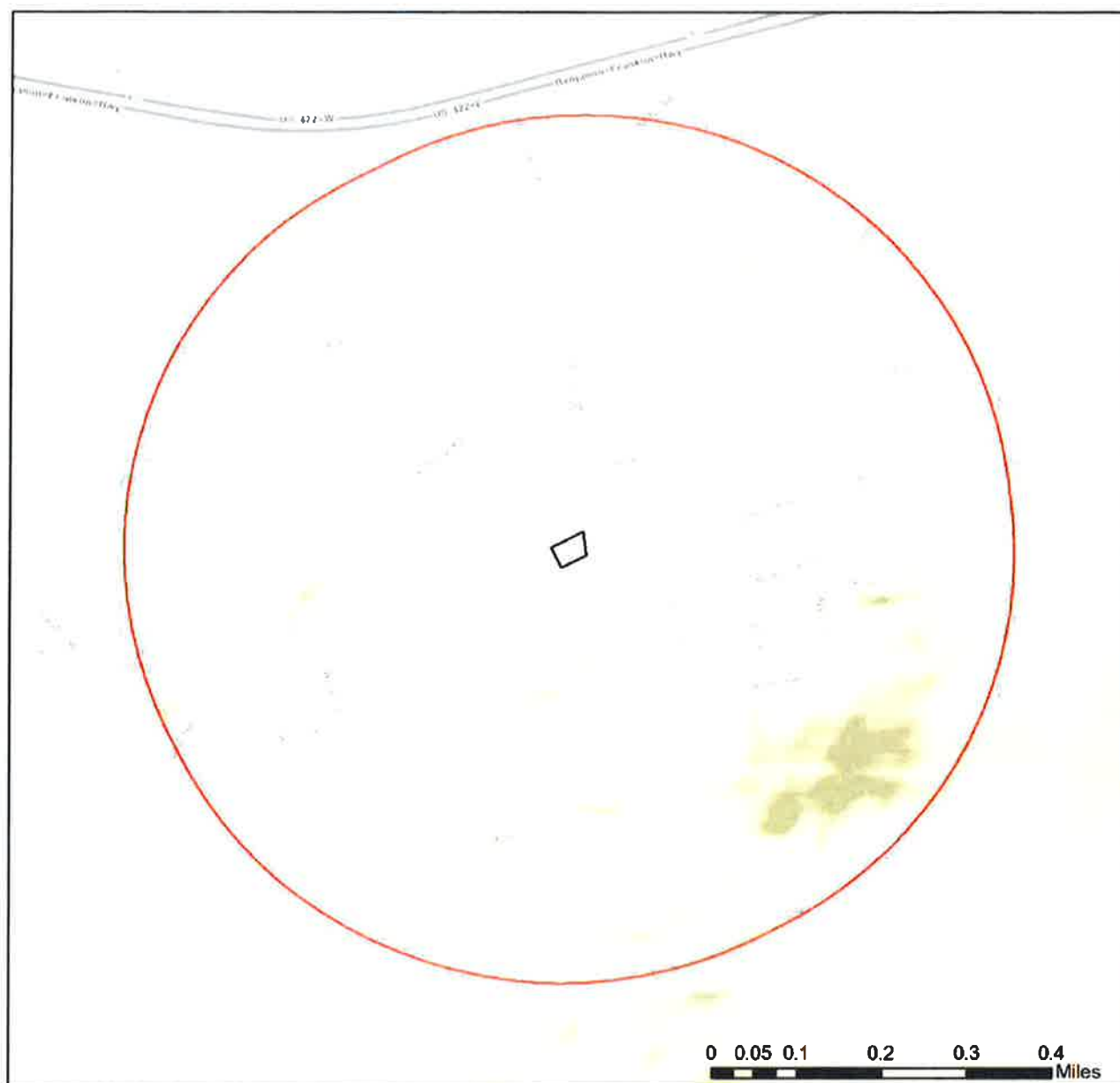


- ☐ Project Boundary
- ☐ Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user

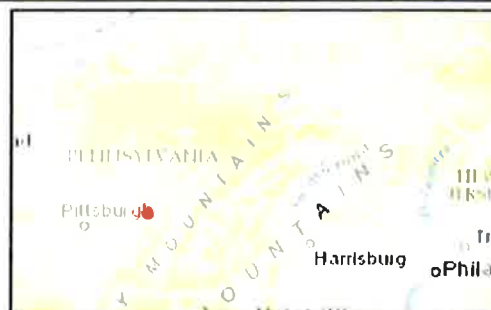


Vennard's



- ☐ Project Boundary
- ☐ Buffered Project Boundary

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service

RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <https://conservationexplorer.dcnr.pa.gov/content/resources>.

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552
Harrisburg, PA 17105-8552
Email: RA-HeritageReview@pa.gov
Fax: (717) 772-0271

PA Fish and Boat Commission

Division of Environmental Services
450 Robinson Lane, Bellefonte, PA 16823
Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: Michael E. Kern, P.G.
Company/Business Name: Mountain Research, LLC
Address: 825 25th Street
City, State, Zip: Altoona, PA 16601
Phone: (814) 949-2034, Ext. 251 Fax: (814) 949-9591
Email: mkern@mountainresearch.com

8. CERTIFICATION

I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.



applicant/project proponent signature

11/11/2016

date

