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October 26, 2015

Mr. Scott Ferguson, P.G. Pennsylvania Department of Environmental Protection Environmental Cleanup Program 208 West Third Street, Suite 101 Williamsport, PA 17701-6448

Re: Site Characterization Report Addendum
United Refining Company of Pennsylvania
Kwik Fill M-90
1322 South 2<sup>nd</sup> Street
Clearfield, PA 16830
PADEP Facility ID #17-14821/PAUSTIF Claim #2015-0004(I)

Dear Mr. Ferguson:

Letterle & Associates, Inc. is pleased to submit this Site Characterization Report Addendum for the above-referenced site.

If you have any questions or comments regarding this report, please feel free to contact me at 814-355-2241.

Sincerely,

Jed Hill

Project Manager

Enclosure

cc: Mr. Scott C. Wonsettler, P.G., United Refining Company of Pennsylvania (with CD)

Mr. Gerald Hawk, ICF International (via email)

Mr. Mitch Harvey, RES Coal, LLC

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SCR Addendum.doc

## SITE CHARACTERIZATION REPORT ADDENDUM



PADEP Facility ID #17-14821 PAUSTIF Claim #2015-0004(I)

Kwik Fill M-90 1322 South 2<sup>nd</sup> Street Clearfield, PA 16830

#### Prepared for:

United Refining Company of Pennsylvania 15 Bradley Street P.O. Box 688 Warren, PA 16365

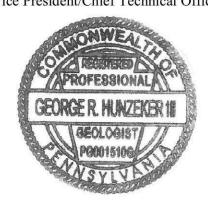


2022 Axemann Road, Suite 201, Bellefonte, PA 16823

ed Hill

Project Manager

George R. Hunzeker, P.G. Vice President/Chief Technical Officer



"By affixing my seal to this document, I am certifying that the information is true and correct to the best of my knowledge. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information."

-George R. Hunzeker, P.G., signed and sealed this day, October 26, 2015

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#### 1.0 INTRODUCTION

Letterle & Associates, Inc. (Letterle) of Bellefonte, Pennsylvania (PA) has been contracted by United Refining Company of Pennsylvania (United), as the environmental consultant for the Kwik Fill M-90 facility located at 1322 South 2<sup>nd</sup> Street in Lawrence Township, Clearfield County, Clearfield, PA. The investigated properties include the Kwik Fill M-90 property owned by United and the Cleveland Brothers/Beckwith Machinery Company property owned by KF Land Holdings, LLC. The two investigated properties will herein be referred to as "the site".

The purpose of this Site Characterization Report (SCR) Addendum is to summarize the site characterization activities completed to investigate a diesel release discovered at the site in December 2014 (as further detailed in Section 2.0).

#### 2.0 SITE HISTORY/PROJECT SUMMARY

The site is currently an active retail fueling (gasoline and diesel) station, which has two 10,000-gallon and one 8,000-gallon steel underground storage tanks (USTs). The two 10,000-gallon USTs were in installed in 1969 and the 8,000-gallon UST was installed in 1974. One 10,000-gallon UST and one 8,000-gallon contain unleaded gasoline and the remaining 10,000-gallon UST (in the middle) contains diesel fuel.

On June 15, 1995, the 10,000-gallon unleaded gasoline UST (#002) failed a tightness test. The PA Department of Environmental Protection (PADEP) was notified of the failure and subsequently, Mountain Research, Inc. (MRI) was retained by United in May 1996 to perform site characterization activities. The results of the site characterization indicated several soil/groundwater samples contained unleaded gasoline constituents at concentrations above their respective Medium Specific Concentration (MSC) values.

MRI prepared a Remedial Action Plan (RAP) in July 1999 proposing an Oxygen Injection System. The PADEP approved the RAP in January 2000. System installation was initiated in February 2000 and the system commenced operation on April 12, 2000. The system was operational from April 12, 2000 until the first quarter of 2005.

From early 2005 through mid-2006, additional site investigations were initiated at the site to reevaluate the remedial approach. In October 2006, a Supplemental SCR and RAP Addendum was submitted to the PADEP. The Supplemental SCR/RAP Addendum identified two separate source areas, one on-site and one off-site at the Cleveland Brothers/Beckwith Machinery Company property. The on-site source area (Source Area #1) was found to have impacted groundwater beneath the site and down-gradient on the former Cleveland Brothers property. Impacted groundwater from Source Area #2 was found to be related to an off-site release and not associated with the Kwik Fill M-90 facility. The Supplemental SCR/RAP Addendum strategy included remediating groundwater via an air sparge/soil vapor extraction (AS/SVE) system. An additional RAP Addendum was submitted in December 2006. The PADEP approved the Supplemental SCR/RAP Addendum and additional RAP Addendum in January 2007, with modifications. An AS/SVE system was installed at the site and operated from November 2007 through the fourth quarter of 2008.

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A second release of unleaded gasoline occurred at the site, and was reported in February 2008. Additional site characterization activities were initiated and an Additional SCR and RAP Addendum was submitted in June 2011. The June 2011 Additional SCR/RAP Addendum included the selection of a dual phase extraction (DPE)/SVE system to address on-site soil and groundwater and enhanced in-situ bioremediation (EB) to address off-site groundwater. The June RAP Addendum was approved by the PADEP in July 2011.

The PA Underground Storage Tank Indemnification Fund (PAUSTIF) and their administrator, ICF International (ICFI), put the site remedial work out for competitive bid. The proposed scope of work was based upon the July 2011 approved RAP. Letterle was awarded the bid in March of 2012 and began implementation of the approved RAP.

A remedial system trailer was constructed and mobbed to the site during the third quarter of 2012 and began operation on October 30, 2012. In compliance with the PAUSTIF remediation agreement, the remediation system was to be operated for a total period of two years. Additionally, as specified in the remediation agreement, applicable PADEP Used-Aquifer (total dissolved solids (TDS)  $\leq$  2,500 milligrams per liter (mg/L)) Residential Statewide Health Standard (UARSHS) MSCs in groundwater had to be attained within seven quarters of system operation. This criterion was met and the remediation system was shut down on October 10, 2014 and the groundwater attainment monitoring program was initiated in the fourth quarter of 2014. Additionally, the initial soil vapor attainment sampling event and the soil attainment sampling event were completed in the fourth quarter of 2014.

During the week of December 15, 2014, station personnel reported actuation of the diesel fuel line leak detector. All product piping was tightness tested on December 18, 2014 and diesel fuel piping failed the tightness test. The diesel UST system was removed from service and emptied of product. On December 19, 2014, existing monitoring wells in the vicinity of the UST/dispenser system area were gauged to check for separate-phase liquid (SPL), with no SPL or unusual odors detected. The PADEP was notified on December 18, 2014 and a Notification of Reportable Release (NORR) was filed on December 22, 2014. Due to the failed tightness test, the PADEP issued a letter to United dated January 2, 2015 for a violation of Section 1310 of the PA Storage Tank and Spill Prevention Act.

Quarterly groundwater attainment sampling as part of the previous release investigation was performed on March 31, 2015 (first quarter of 2015), which was to represent the second of eight required groundwater attainment sampling events at the site as part of the groundwater attainment monitoring program. However, the first quarter of 2015 groundwater sampling results revealed exceedances of the applicable PADEP UARSHS MSCs for benzene, toluene, and naphthalene in monitoring wells MW-28 and MW-31, which are immediately adjacent to the gasoline and diesel dispensers. The appearance of constituent concentrations above the applicable PADEP UARSHS MSCs in wells MW-28 and MW-31 is likely a result of the December 18, 2014 diesel fuel piping failed tightness test (subsurface release of diesel product in the vicinity of the dispensers).

Initial site characterization activities were completed and a SCR was submitted to the PADEP dated July 13, 2015, which was subsequently reviewed by the PADEP in correspondence dated July 30, 2015. The PADEP's preliminary review of the SCR identified a few concerns regarding

the site characterization results, specifically soil and groundwater delineation issues and agreed with Letterle's proposed additional characterization activities.

Letterle's proposed additional characterization activities included:

- Advance additional soil borings to the northeast and northwest of SB-16 and to the northwest (across South 2<sup>nd</sup> Street) of SB-11/SB-12. Proposed borings SB-21/SB-22 must be placed across South 2<sup>nd</sup> Street due to utility conflicts immediately northwest of impacted borings SB-11/SB-12;
- Attempt to locate and sample groundwater monitoring wells MW-5 and MW-12 (these wells were not part of the groundwater sampling plan related to the previous release investigation) to further define the extent of off-site groundwater impacts;
- Update the professional survey that includes the locations of the proposed wells and soil borings and a property deed search so property boundaries can be added to the survey; and,
- Update the risk evaluation and the site conceptual model utilizing the additional data obtained from the activities proposed above and submission of an Additional SCR.

These proposed activities were completed and are described in the following sections.

#### 3.0 SITE DESCRIPTION

#### 3.1 Site Location/Physical Setting

The site location is depicted on the United States Geological Survey (USGS) 7.5 Minute Topographical Quadrangles of Clearfield and Glen Richey, PA as presented in **Figure 1**. The latitude of the site is reported to be 41° 00′ 18.02" N and the longitude is reported to be 78° 27′ 19.69" W. An aerial view of the site and surrounding area is presented as **Figure 2**. A more detailed site layout map, which fully depicts the site area, is presented as **Figure 3**. The site reportedly exists at an approximate elevation of 1,116 feet above mean sea level (ft-amsl). Site topography gently slopes from southeast to northwest towards the West Branch of the Susquehanna River.

The site is covered primarily with asphalt and concrete with a grassy area to the rear of the property. There is one main building structure located on the subject property, which is the Kwik Fill convenience store. A retail unleaded gasoline/diesel fueling station (including a UST field) is also located at the subject property. The subject property is located within a commercially developed area of Clearfield. The nearest surface water body is the West Branch of the Susquehanna River, which is located topographically down-gradient approximately 275 feet directly northwest of the site across South 2<sup>nd</sup> Street at an approximate elevation of 1,100 ft-amsl. The West Branch of the Susquehanna River has a northeasterly flow through Clearfield County. According to Chapter 93 of the PADEP Regulations, the water quality standard for the West Branch of the Susquehanna River is Warm Water Fishes (WWF), Migratory Fishes (MF).

#### 3.2 Subject Property Utilities

Water: The subject property is serviced with public (municipal) water from Clearfield

Municipal Authority (CMA), which enters the property via underground utility.

Sanitary Sewer: The subject property is serviced with public (municipal) sewer from CMA,

which enters the property via underground utility.

Electric: The subject property is serviced with electricity from the Pennsylvania Electric

Company, which enters the property via overhead lines.

Telephone: The subject property is serviced with telephone from Verizon Pennsylvania

LLC, which enters the property via overhead lines.

Stormwater Stormwater collection systems are located on the subject property and

surrounding properties, which are serviced by Lawrence Township and the PA

Department of Transportation.

Natural Gas: The subject property is serviced with natural gas from UGI Penn Natural Gas,

Inc., which enters the property via underground utility.

No other utilities are known to exist at the subject property.

#### 3.3 Geology and Soil Description

Bedrock geology in the vicinity of the site is preliminarily mapped as the Pottsville Group. The preliminary bedrock geology underlying the site is illustrated in Figure 4A. The rocks within this section are primarily composed of cyclic sequences of sedimentary rocks consisting primarily of sandstones, siltstones, shales, red beds, and limestone and thin beds of coal from the Pennsylvanian Period. Near the site, the dominant sedimentary rock types consist primarily of sandstone and shale characteristic of the Allegheny and Pottsville Groups. The Pottsville Group is characterized by light to dark gray, fine grained to coarsely conglomeritic sandstone. Subordinate amounts of gray shale, siltstone, limestone, coal, and claystone occur within the formation. This group tends to have numerous, well formed joints with wide spacing in the sandstone and close in the shale. These joints are open and situated vertically within the formation. Shallow hydrogeologic conditions near the site may be characterized as a one or two component system. The water bearing system is generally comprised of a shallow surficial water-bearing system within the uppermost unconsolidated alluvial deposits and a deeper waterbearing system within the underlying Pottsville Group. When the thickness of the unconsolidated material is limited, a shallow water-bearing system exists within the Pottsville Group alone (Geyer, et al., 1982).

The Pottsville Group is massive in areal extent and is considered a good potential for the development of water. Based on specific capacity data collected from wells penetrating this formation, a median yield may be estimated to be approximately 50 gallons per minute. The sandstone beds have a high to moderate primary porosity. Within the higher yielding wells, water moves through the well-formed, wide spaced joints and fractures. Consequently, total effective porosity is high. General water quality contained within the Pottsville Group is

generally good; however, iron and salt-water (at depth) concentrations may be high in localized areas (Geyer, et al., 1982).

Only preliminary geologic mapping of the area has been completed and no published information was available to approximate the basic local structural orientation (local strike and dip) of the underlying bedrock formation. Additionally, no bedrock outcrops were observed during site characterization activities.

The soils at the site have been mapped as Urban land (Ur) and Tyler silt loam (TyB), with Urban land making up the majority of the site. The Urban land unit consists of areas where 85 percent or more of the surface is covered by roads, railroads, sidewalks, parking areas, houses, factories, and other structures. Included with this unit in mapping are areas of fill material and small areas of soil where structures cover less than 85 percent of the surface, mainly in parks and small wooded areas. The Tyler series consists of very deep, somewhat poorly drained soils formed in silty alluvium and in a mantle of loess on high Illinoian age terraces and valley fills. Permeability is moderately slow above the fragipan, slow or very slow in the fragipan, and moderately slow in the substratum. Slope ranges from 0 to 8 percent. Mean annual precipitation is about 40 inches. Mean annual air temperature is about 55 degrees F.

Additional information on the site soil is contained in the Custom Soil Resource Report produced by the United States Department of Agriculture Natural Resource Conservation Service (USDA NRCS), which is included in **Appendix A**. The mapped soils underlying the site are illustrated on the USDA NRCS soils map presented as **Figure 4B**.

#### 4.0 INTERIM REMEDIAL ACTION

As a result of the increased benzene, toluene, and naphthalene concentrations observed in wells MW-28 and MW-31, Letterle submitted a request to the PADEP dated May 4, 2015 to restart the existing remediation system as an interim remedial action while the site characterization is being completed. The PADEP subsequently approved this request in correspondence dated May 5, 2015. The remediation system was restarted on May 6, 2015.

The remediation system is a dual phase extraction (DPE) system, which was originally installed at the site in the third quarter of 2012 as part of the previous release investigation. DPE is a remedial technology that utilizes a high vacuum system to remove groundwater, hydrocarbon vapor, and SPL, if present, simultaneously from the subsurface formation.

The DPE system components housed within the onsite trailer include:

- Two claw pumps;
- One air compressor;
- One air/water separator (AWS) tank;
- One equalization tank;
- Two transfer pumps and level controls;
- Six pneumatic groundwater pumps;

- Four 400-pound liquid-phase granular activated carbon (GAC) vessels (high pressure units);
- Two 600-pound vapor-phase GAC vessels; and,
- Control panel for the claw pumps, air compressor, and the transfer pumps (including all system interlocks).

The DPE system utilizes monitoring/recovery wells MW-1, MW-1A, MW-2, MW-28, MW-31, MW-34, MW-35, and MW-36. Only wells MW-28 and MW-31 were activated on May 6, 2015 for the interim remedial action phase.

The recovered groundwater is treated and discharged to the sanitary sewer under an issued permit from CMA. Under the terms of the permit, analytical reports and totalizer readings are reported in Discharge Monitoring Reports (DMR) on a monthly basis to the CMA. Petroleum impacted soil and groundwater remediation systems have been listed as exempt from the Plan Approval/Operating permit requirements by PADEP, Division of Air Quality. The remediation system is operated under the exemption requirements.

#### 4.1 Remediation System Operating Summary

Re-Start Date: May 6, 2015

3<sup>rd</sup> Quarter 2015 System Uptime: 85%

3<sup>rd</sup> Quarter 2015 Total Gallons Treated: 266,975 gallons Total Gallons Treated Since System Re-start: 286,848 gallons

The system start-up and shakedown period was completed during the month of May. Multiple system adjustments, modifications, and repairs were completed during this period.

#### 4.2 System Sampling Dates

Groundwater Influent, Midfluent, Effluent: May 28, 2015

June 8, 2015 July 9, 2015 August 13, 2015 September 9, 2015

Groundwater Effluent: May 28, 2015

June 8, 2015 June 25, 2015 July 9, 2015 July 22, 2015 August 13, 2015 August 24, 2015 September 9, 2015 September 22, 2015

Vapor: July 22, 2015

#### 5.0 SITE CHARACTERIZATION ACTIVITIES

#### 5.1 Introduction

The site characterization was performed in accordance with generally recognized and accepted industry standards and PADEP technical guidance. Specifically, the site characterization was performed in accordance with the general site characterization requirements documented in Subchapter D of the Storage Tank and Spill Prevention Act (Act 32) and Chapter 245 of the PA Code.

The objective of the site characterization activities was to evaluate soil and groundwater chemical and physical characteristics and determine the extent of subsurface impact resulting from the December 2014 diesel release on soil and groundwater at the site. The site characterization activities included the following tasks: Geoprobe® soil investigations; a professional survey of the existing groundwater monitoring well network, property boundaries, and site infrastructure; groundwater monitoring/sampling events; groundwater movement assessments; soil/groundwater impact assessments; and, an evaluation of risk exposure pathways and potential receptors.

#### 5.2 Soil Investigation

In response to the December 18, 2014 failed tightness test, a soil investigation was conducted on May 6-7, 2015 to identify and delineate (horizontal and vertical extent) potential soil impacts in the vicinity of diesel UST system (dispenser, product lines, and tanks). An additional soil investigation was conducted on June 15, 2015 to further delineate (horizontal extent) identified soil impacts. A third soil investigation was conducted on August 21, 2015 to completely delineate identified soil impacts.

The soil investigations were aided by utilizing a Geoprobe® direct push machine. A Geoprobe® is a hydraulically powered percussion hammer system that advances small diameter probes into the subsurface for the purpose of collecting water samples, soil samples, and/or soil gas samples. For characterization soil sampling, the percussion hammer advances the macro-core sampler (fitted with a polyethylene liner) into the ground. The macro-core sampler is then retrieved from the ground and the polyethylene liner is removed. The macro-core is fitted with a new liner, advanced into the ground to the previous depth, and an extension rod is fitted on the end of the macro-core. This process is subsequently continued until the desired depth of the subsurface boring is reached (ASTM D1586-99).

Soil cores were retrieved from each subsurface boring interval via the macro-core soil sampler fitted with a polyethylene liner. The liner was replaced at each sample interval to prevent sample cross-contamination. The complete macro-core assembly was decontaminated (rinsed with water, washed with liquinox, and rinsed again with water) between each soil boring location.

After the macro-core liner was opened, the soils were described and screened for the presence or absence of petroleum impacts with a photo-ionization detector (PID) and visual/olfactory observations. At each sample interval, a portion of each sample was placed into sealable plastic bags and a "head space" analysis was conducted with the PID. The PID indicates a parts-permillion (ppm) readout of volatile organic compound vapor concentration and was calibrated prior

to use each day. An environmental scientist recorded PID readings and recorded soil descriptions including texture, color, structure (if discernable), consistence, and saturated or unsaturated status. Specifically, each soil sample was field-classified in accordance with the United Soil Classification System (USCS). The soil boring logs are included in **Appendix B**.

One or two soil samples were collected from each soil boring location. One soil sample was collected from the interval with the highest PID reading and one soil sample was collected from just above the soil-water interface. If no volatile organic compound vapors were detected by the PID, a confirmatory soil sample was collected from just above the soil-water interface.

The soil samples were collected by field personnel, wearing nitrile disposable gloves. Each soil sample was collected using the Easy Draw Syringe or a similar syringe apparatus in general accordance with United States Environmental Protection Agency (USEPA) Method 5035. Specifically, for each soil sample collected, two five-gram samples of soil were deposited into two pre-preserved sodium bisulfate vials, respectively, one five-gram sample was deposited into a pre-preserved methanol vial, and a sample was placed in a four-ounce amber glass jar. The soil samples were deposited into pre-preserved laboratory supplied glassware, labeled, custody sealed, placed in an ice-filled cooler, and returned to the office. The samples were stored in a refrigerator (at 4 °C) until they were collected by the laboratory. The samples were submitted to Fairway Laboratories of Altoona, PA (Fairway Labs), for analysis of the post-March 15, 2008 PADEP Land Recycling Program Technical Guidance Manual, Table IV-9 - Short List of Petroleum Products, specifically diesel constituents (post-March 2008 PADEP diesel short list constituents) via USEPA Method 8260B, and were accompanied by Chain-of-Custody documentation. The soil analytical laboratory reports are included in **Appendix C**.

The soil analytical results from the three soil investigations conducted on May 6-7, 2015, June 15, 2015, and August 21, 2015 indicate the following exceedances of the applicable PADEP UARSHS MSCs:

- 1,3,5-Trimethylbenzene (TMB) in soil borings SB-1, SB-6, SB-8, SB-11, SB-12, and SB-16:
- 1,2,4-TMB in soil borings SB-1, SB-6, SB-8, SB-11, SB-12, and SB-16;
- Benzene in soil borings SB-6, SB-7, SB-8, and SB-11;
- Ethylbenzene in soil boring SB-11; and,
- Naphthalene in soil boring SB-11.

The locations of the soil borings and sample locations are depicted in the soil boring location map presented as **Figure 5** and the soil analytical results are presented in **Table 1**. Based on the data collected during the soil investigation, an estimated area of impacted soil (unsaturated) was developed and is presented in **Figure 5**.

All soil cores and decontamination waste generated during the soil boring activities were placed into 55-gallon DOT-approved and appropriately-labeled steel drums and staged onsite. Pick-up and disposal of the waste will be scheduled with GemChem, Inc. of Lititz, PA.

#### 5.3 Groundwater Investigation

An investigation of the hydrogeology and groundwater chemistry beneath the site was completed in order to assess and delineate identified petroleum impacted groundwater. The investigation activities included: professional surveying the existing groundwater monitoring well network and site; fluid-level monitoring; measuring groundwater elevations in the existing groundwater monitoring wells to determine predominant groundwater flow direction and patterns; groundwater sampling events; and, groundwater movement/impact assessments.

#### 5.3.1 Hydrogeology

Groundwater in the region occurs in both unconsolidated overburden materials and underlying bedrock. As observed during quarterly groundwater gauging activities associated with the previous release investigation and the completed site characterization, groundwater is encountered within the overburden soil materials at an approximate depth of two to six feet below ground surface (ft-bgs). This groundwater represents the shallow, unconsolidated overburden aquifer. Additionally, the West Branch of the Susquehanna River is the major surface water feature topographically down-gradient of the site and its elevation (ft-amsl) correlates with the reported groundwater depth at the site.

As observed during quarterly groundwater gauging activities associated with the previous release investigation and the completed site characterization, the predominant direction of groundwater movement in the shallow overburden aquifer is interpreted to be to the northwest (towards the West Branch of the Susquehanna River). Based on topography and groundwater elevation data, the shallow overburden groundwater likely discharges to the West Branch of the Susquehanna River. Bedrock was not encountered during the site characterization.

#### 5.3.2 Licensed Professional Site Survey and Base Map

A survey of the entire monitoring well/borehole network and site (right-of-ways, property boundaries, site features, etc.) was completed by Kerry A. Uhler & Associates (KUA). Survey points were determined with Survey Grade Global Positioning System (GPS)/Global Navigation Satellite System (GNSS) receivers and projected to the PA North State Plane Coordinate system based on the North American Datum of 1983 (NAD83) with post-processing via TOPCON Tools post-processing software. Site benchmarks are also referenced to this data.

The top of each well casing was survey located relative to the aforementioned datum. The surveyed top-of-casing elevations and depth-to-groundwater measurements were used to establish groundwater elevations in each well. The depth-to-groundwater in each well was subtracted from the measuring point elevation to obtain the elevation of groundwater. Additionally, well total depth measurements and the known screen intervals were used to establish the top-of-screen elevations in each well. A detailed site layout map, which fully depicts the site area, is presented as **Figure 3**.

#### 5.3.3 Groundwater Gauging/Sampling

Groundwater gauging/sampling was completed throughout the site characterization in order to assess the degree of groundwater impacts, monitor measured thickness of SPL (if present), determine groundwater elevations, and determine predominant groundwater flow direction and patterns. Groundwater gauging/sampling was completed on existing on-site wells MW-1,

MW-1A, MW-2, MW-2A, MW-28, MW-31, MW-32, MW-33, MW-34, MW-35, and MW-36 and existing off-site wells MW-3, MW-4, MW-5, MW-7, MW-9, MW-10, MW-12, MW-14, MW-15, MW-17, MW-21, MW-29, and MW-30.

#### 5.3.3.1 Groundwater Gauging

Letterle completed three groundwater gauging events (May 4, 2015, May 26, 2015, and September 14, 2015) during the site characterization. A total of 24 wells in the shallow overburden groundwater monitoring well network (MW-1, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-7, MW-9, MW-10, MW-12, MW-14, MW-15, MW-17, MW-21, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, and MW-36) were attempted to be gauged.

Depth-to-fluid and/or groundwater was measured in each well to monitor measured thickness of SPL (if present), determine groundwater elevations, and interpret the predominant direction of groundwater movement. Depth-to-fluid and/or groundwater measurements were recorded using an electronic oil-water level indicator capable of measuring to within 0.01 feet of accuracy. The oil-water level indicator was decontaminated between each well to prevent cross-contamination.

Groundwater elevation data collected during the most recent groundwater gauging event (September 14, 2015) indicates the following:

- Groundwater elevations in shallow overburden groundwater ranged from 1,101.45 feet in MW-7 to 1,112.43 feet in MW-2A;
- The predominant direction of groundwater flow in the shallow overburden aquifer is interpreted to be to the north (towards the West Branch Susquehanna River); and,
- Using the September 14, 2015 groundwater elevation data, a groundwater hydraulic gradient of 0.029 feet per foot (ft/ft) between groundwater monitoring wells MW-2A and MW-7 was calculated.

**Table 2** presents the resultant groundwater elevations from the groundwater gauging events completed during the site characterization. A groundwater potentiometric surface contour map for the September 14, 2015 groundwater gauging event is presented as **Figures 6**.

#### 5.3.3.2 Groundwater Sampling

Letterle completed three groundwater sampling events (May 4, 2015, May 26, 2015, and September 14, 2015) during the site characterization. A total of 22 wells in the shallow overburden groundwater monitoring well network (MW-1, MW-1A, MW-2, MW-2A, MW-3, MW-4, MW-5, MW-7, MW-10, MW-12, MW-14, MW-15, MW-21, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, and MW-36) were sampled.

Subsequent to gauging the fluid and/or groundwater level in each well, low-flow sampling was initiated. For site wells, a combination of polyethylene and silicon tubing were utilized in conjunction with a peristaltic pump. The peristaltic pump was then utilized to purge each well at a low flow rate of <0.5 liters (500 milliliters) per minute. The tubing intake was placed approximately three feet below the measured water level. In general, each well was purged at a

rate of 100-400 milliliters per minute to avoid creating drawdown. If a well was dewatered, a bailer was utilized to collect the sample after the well recovered.

The purged groundwater was then passed through a flow-through cell that measures dissolved oxygen (DO), pH, TDS, temperature, specific conductivity, and oxidation-reduction potential (ORP). Measurements of these parameters were recorded every 5 minutes. These measurements were recorded until three consecutive readings stabilized to within 10% of one another. Purging was considered to be complete upon parameter stabilization for three consecutive readings. Once stabilization was documented, the flow-through cell was disconnected and the sample was immediately collected from the discharge line. The purged groundwater was filtered through a mobile GAC vessel and then discharged to the ground surface.

The samples were sealed in pre-preserved laboratory supplied glassware, labeled, custody sealed, placed in an ice-filled cooler, and returned to Letterle's office. The samples were stored in a refrigerator (at 4 °C) until they were collected by the laboratory. The samples were submitted to Fairway Labs for analysis of the post-March 2008 PADEP diesel short list constituents via USEPA Method 8260B and were accompanied by Chain-of-Custody documentation.

The groundwater analytical results from the groundwater sampling events completed during the site characterization indicate the following exceedances of the applicable PADEP UARSHS MSCs:

- 1,3,5-TMB in well MW-31;
- 1,2,4-TMB in wells MW-28, MW-30, and MW-31; and,
- Benzene in wells MW-28, MW-30, and MW-31.

**Table 2** summarizes the historical groundwater analytical data obtained throughout the site characterization. Groundwater analytical laboratory reports are included in **Appendix C**.

A benzene isoconcentration contour map from the most recent groundwater gauging event (September 14, 2015) is presented as **Figure 7**.

#### 5.4 Risk Evaluation

#### 5.4.1 Risk Exposure Pathways and Potential Receptors

An exposure pathway generally consists of four elements: a source and mechanism of chemical release; a retention or transport medium; a point of potential receptor contact with contaminated medium; and route at the exposure point.

The risk exposure pathways for the site were evaluated with respect to the regulated diesel compounds detected in soil and groundwater at the site. Ingestion, inhalation, and dermal contact of chemical compounds typically pose the greatest risk to human health and ecological organisms.

#### 5.4.1.1 Evaluation of Vapor Inhalation Pathways

The potential pathway for vapor inhalation includes volatilization of chemicals of potential indoor air concern (COPIACs). Specifically for this site, the potential pathway for vapor inhalation includes volatilization of adsorbed-phase post-March 2008 PADEP diesel short list constituents from subsurface soils and volatilization of dissolved-phase post-March 2008 PADEP diesel short list constituents in groundwater to indoor air (vapor intrusion).

There is one building-of-concern located on the subject property (Kwik Fill convenience store), and the building structure is slab-on-grade construction and does not have a basement.

Subsurface soils at the site have been impacted by post-March 2008 PADEP diesel short list constituents as a result of the diesel release; therefore, an evaluation using the Soil Indoor Air Quality (IAQ) Decision Matrix (Figure 2) found in the Land Recycling Program Technical Guidance Manual-Section IV.A.4 - Vapor Intrusion into Buildings from Groundwater and Soil was completed. COPIACs and non-COPIACs present in subsurface soils exceed the PA Soil-Groundwater MSC Used Aquifer Residential Soil Screening Values in Table 4 of the Land Recycling Program Technical Guidance Manual-Section IV.A.4 - Vapor Intrusion into Buildings from Groundwater and Soil; therefore, the Soil IAQ Decision Matrix (Figure 2) recommends soil gas sampling, indoor air sampling, a site-specific analysis, and/or mitigation to eliminate or address the potential exposure pathway.

Groundwater at the site has been impacted by post-March 2008 PADEP diesel short list constituents as a result of the diesel release; therefore, an evaluation using the Groundwater IAQ Decision Matrix (Figure 1) found in the Land Recycling Program Technical Guidance Manual-Section IV.A.4 - Vapor Intrusion into Buildings from Groundwater and Soil was completed. COPIACs and non-COPIACs present in subsurface groundwater exceed the PA Groundwater MSC Used Aquifer Residential Groundwater Screening Values in Table 1 of the Land Recycling Program Technical Guidance Manual-Section IV.A.4 - Vapor Intrusion into Buildings from Groundwater and Soil; therefore, the Groundwater IAQ Decision Matrix (Figure 1) recommends soil gas sampling, indoor air sampling, a site-specific analysis, and/or mitigation to eliminate or address the potential exposure pathway.

On March 12, 2015, as part of the previous release investigation, confirmatory soil gas sampling (vapor intrusion investigation) was completed and the potential vapor intrusion exposure pathway at the site has been eliminated (see Section 5.4.3 – Soil Gas Sampling).

## 5.4.1.2 Evaluation of Soil Particle Inhalation, Dermal Contact, and Ingestion Pathways

Subsurface soils at the site are impacted with post-March 2008 PADEP diesel short list constituents at concentrations greater than their respective PADEP UARSHS MSCs as a result of the confirmed diesel release. However, exposure to impacted subsurface soil (soil particle inhalation, dermal contact and/or ingestion) would require intrusive activities (asphalt/concrete removal and/or soil excavation) and therefore would limit the potential exposure to utility/construction workers. In summary, this exposure pathway is retained until the impacts to subsurface soils are addressed via remediation or an Environmental Covenant (EC) Agreement is instituted for the site which implements use restrictions and limitations for exposure to site soils.

### 5.4.1.3 Evaluation of Volatilization of Constituents from Groundwater, Dermal Contact, and Ingestion Pathways

Shallow overburden groundwater at the site is impacted with post-March 2008 PADEP diesel short list constituents at concentrations greater than their respective PADEP UARSHS MSCs as a result of the confirmed diesel release. However, exposure (volatilization of constituents from groundwater or dermal contact) to impacted groundwater would require intrusive activities and therefore would limit the potential exposure to utility/construction workers. In summary, the volatilization of constituents from groundwater or dermal contact exposure pathway is retained until groundwater impacts are addressed via remediation or an EC Agreement is instituted for the site which implements use restrictions and limitations for exposure to site groundwater.

The area is commercially developed and no residential properties are located on the southern side of the Susquehanna River within a half mile radius of the site (a few residential properties within a half mile radius of the site are located on the northern side of the Susquehanna River) (see **Figure 2**). Additionally, the site and surrounding properties are supplied with public (municipal) water by CMA. CMA's primary source for public water supply is the Clearfield Reservoir, which is located in Pike Township approximately 3.5 miles northwest of the site. Lawrence Township enacted an ordinance requiring all property owners to connect to the public water supply system supplied by CMA. A copy of the Lawrence Township "Water Connection Required" ordinance is included in **Appendix D**.

A water supply well search (PA Ground Water Information System (PAGWIS)) was performed to determine the potential for impacted groundwater beneath the site to be withdrawn from surrounding properties. The search revealed 13 registered wells within a half mile radius of the site. 11 of the registered wells are environmental wells used for shallow groundwater monitoring purposes, one (American Mond Nickel Company) is unused and located 0.49 miles southwest of the site, and one (Crofts Food Market) is located approximately 0.50 miles southwest of the site. The results of the PAGWIS database search are included in **Appendix E**.

In addition, dissolved-phase post-March 2008 PADEP diesel short list constituent concentrations observed in groundwater at the site are fully delineated. Therefore, no exposure/ingestion pathways are deemed to be complete as a result of the ordinance restrictions, the database search, and the groundwater characterization results (groundwater delineation).

## 5.4.1.4 Evaluation of Diffuse Groundwater Discharge and Degradation of Surface Water Pathways

Shallow overburden groundwater at the site is impacted with post-March 2008 PADEP diesel short list constituents at concentrations greater than their respective PADEP UARSHS MSCs as a result of the confirmed diesel release.

No surface water body is located within the property boundaries; however, the West Branch of the Susquehanna River is the major surface water feature in the vicinity of the site. The West Branch of the Susquehanna River is located topographically down-gradient approximately 275 feet directly northwest of the site. The West Branch of the Susquehanna River is the closest potential surface water receptor for site constituents of interest (COI) and the predominant

direction of groundwater flow in the shallow overburden aquifer at the site is interpreted to be to the northwest towards the West Branch of the Susquehanna River.

Dissolved-phase post-March 2008 PADEP diesel short list constituent concentrations observed in groundwater at the site are fully delineated. Due to the distance of the West Branch of the Susquehanna River from the site, the diffuse groundwater discharge and degradation of surface water pathways are unlikely and are thus considered incomplete.

#### 5.4.2 Ecological Screen

The ecological receptors at this site are the West Branch of the Susquehanna River and the associated ecosystems that may be affected by contact with impacted sediment and/or surface water. The potential pathway for these receptors is the migration of impacted groundwater to the river and subsequent diffuse discharge. These receptors were evaluated in accordance with Chapters 245.310 and 250.311 of the regulations (PA Code, 2001a; PA Code, 2001b), which requires (1) a screening procedure and (2) an ecological database survey for the presence of endangered and/or threatened species or special habitats at or around the site. This site passes the PADEP Statewide Health Standard (SHS) screening procedure because potential contamination is limited to light petroleum related constituents. Additionally, a Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review for the site was completed. The PNDI review did not identify any known impacts and no further review is required. The results of the PNDI Environmental Review are included in **Appendix F**.

#### 5.4.3 Soil Gas Sampling

Evaluation of the IAQ Decision Matrix for groundwater (Figure 1) and soil (Figure 2) recommended soil gas sampling, indoor air sampling, a site-specific analysis, and/or mitigation to eliminate or address the potential vapor intrusion exposure pathway. Soil gas sampling was completed in an attempt to eliminate or address the potential exposure pathway.

As part of the previous release investigation, a vapor intrusion investigation was conducted consisting of two separate soil gas sampling events (initial and confirmatory). The initial soil gas sampling event was conducted on December 10, 2014 (prior to the December 18, 2014 confirmed violation (failed tightness test)) and the confirmatory soil gas sampling event was conducted on March 12, 2015 (after the December 18, 2014 confirmed violation (failed tightness test)). Soil gas sampling at the site utilized the existing soil gas points (SG-1 and SG-2).

#### 5.4.3.1 Soil Gas Sampling Protocol

Three soil gas samples were collected at the site during each sampling event (initial and confirmatory), which included samples from each of the two soil gas points and one duplicate sample. At each soil gas sampling location, a combination of polyethylene and silicon tubing (installed in the soil gas point) was connected to the laboratory-provided soil gas sampling equipment (laboratory-calibrated flow controllers, regulators, and summa canisters). The summa canisters were one-liter in size, allowed for a flow rate of 50 mL/min, and took approximately 20 minutes to fill each sample.

Summa canisters (supplied and calibrated by Pace Analytical Services, Inc. (Pace)) were used to collect the soil gas samples. The samples were submitted to Pace for analysis of the post-March 2008 PADEP diesel short list constituents via USEPA Method TO-15.

The PADEP requests a duplicate soil gas sample to be taken from one of the sampling points. The results from both samples are to be within 30% of each other. The duplicate sample was collected simultaneous with another sample (utilization of a "T-junction") due to the fact that soil gas may undergo chemical variations between the first 20 minutes and the second 20 minutes of testing. By sampling at the same time there is less of a chance the soil gas could undergo these changes.

#### 5.4.3.2 Soil Gas Analytical Results

The soil gas analytical results from the December 10, 2014 (initial) and March 12, 2015 (confirmatory) soil gas sampling events are presented in **Table 3**. The soil gas analytical results were screened against the Residential MSCs for Soil-Gas (MSC<sub>SG</sub>) derived from the Indoor Air Criteria and Odor Thresholds, Residential MSC (mg/m³), Table 3 of the Land Recycling Program Technical Guidance Manual-Section IV.A.4 - Vapor Intrusion into Buildings from Groundwater and Soil (each compound's MSC<sub>SG</sub> was divided by 0.01, the transfer factor from soil gas to indoor air).

As indicated in **Table 3**, post-March 2008 PADEP diesel short list constituents were reported at concentrations below their respective PADEP Residential MSC<sub>SG</sub> in soil gas samples collected during both events, specifically the March 12, 2015 (confirmatory) soil gas sampling event. As a result, the potential vapor intrusion exposure pathway has been eliminated and a complete vapor intrusion exposure pathway at the site does not exist.

The soil gas sample locations (SG-1 and SG-2) are depicted on the site layout map included as **Figure 3**. Soil gas analytical laboratory reports are included in **Appendix C**.

#### 6.0 CONCEPTUAL SITE MODEL

The site had been remediated from the June 1995 and February 2008 reportable releases and was in the groundwater attainment monitoring phase. Quarterly groundwater attainment sampling was performed on December 17, 2014 (fourth quarter of 2014), which represented the first of eight required groundwater attainment sampling events to be performed at the site as part of the groundwater attainment monitoring program. The groundwater analytical results from the groundwater attainment sampling event conducted on December 17, 2014 indicated no exceedances of the applicable PADEP UARSHS MSCs.

During the week of December 15, 2014, station personnel reported actuation of the diesel fuel line leak detector. All product piping was tightness tested on December 18, 2014 and diesel fuel piping failed the tightness test indicating a possible leak to the subsurface. According to United, no inventory loss was reported; however, as a precautionary measurement, the diesel UST system was removed from service and emptied of product. On December 19, 2014, existing monitoring wells in the vicinity of the UST/dispenser system area were gauged to check for SPL, with no SPL or unusual odors detected.

Quarterly groundwater attainment sampling as part of the previous release investigation was performed on March 31, 2015 (first quarter of 2015), which was to represent the second of eight required groundwater attainment sampling events to be performed at the site as part of the groundwater attainment monitoring program. However, the first quarter of 2015 groundwater sampling results revealed exceedances of the applicable PADEP UARSHS MSCs for benzene, toluene, and naphthalene in monitoring wells MW-28 and MW-31, which are immediately adjacent to the gasoline and diesel dispensers (see **Table 2**). The appearance of constituent concentrations above the applicable PADEP UARSHS MSCs in wells MW-28 and MW-31 is likely a result of the December 18, 2014 diesel fuel piping failed tightness test (subsurface release of diesel product in the vicinity of the dispensers). The cause and the timeframe of the release are unknown, but the suspected source is failure to the diesel product lines.

Interim remedial actions (operation of the existing DPE remediation system) have been implemented to remediate dissolved-phase and adsorbed-phase contaminants in the subsurface, and limit contaminant migration, and a site characterization has been performed at the site to identify and evaluate the extent of impacts to the environment in relation to the reported petroleum release.

The site characterization was performed to evaluate soil and groundwater chemical and physical characteristics and determine the extent of subsurface impact resulting from the December 2014 diesel release on soil and groundwater at the site. The site characterization activities included the following tasks: Geoprobe® soil investigations; a professional survey of the existing groundwater monitoring well network, property boundaries, and site infrastructure; groundwater monitoring/sampling events; groundwater movement assessments; soil/groundwater impact assessments; and, an evaluation of risk exposure pathways and potential receptors.

The results of the site characterization/interim remedial action confirm the following:

- Subsurface soils at the site have been impacted by adsorbed-phase post-March 2008 PADEP diesel short list constituents at concentrations greater than their respective PADEP UARSHS MSCs as a result of the diesel release;
- Adsorbed-phase soil impacts appear to be within the right-of-way of South 2<sup>nd</sup> Street;
- Impacts to subsurface soils are fully delineated; however, a residual source mass is present in the vicinity of soil borings SB-1, SB-6, SB-7, SB-8, SB-11, SB-12, and SB-16 (vicinity of the diesel UST system (dispenser, product lines, and tanks), see **Figure 5** for a conceptual view of the estimated area of impacted soil);
- Groundwater at the site has been impacted by dissolved-phase post-March 2008 PADEP diesel short list constituents at concentrations greater than their respective PADEP UARSHS MSCs as a result of the diesel release;
- Dissolved-phase contaminants observed in groundwater appear to have migrated from the subject property underneath South 2<sup>nd</sup> Street onto the Cleveland Brothers property (currently owned by KF Land Holdings, LLC) (see MW-30 in **Table 2**);
- Impacts to site groundwater are fully delineated;
- Impacts to site groundwater appear to be localized to the MW-28, MW-30, and MW-31 area (vicinity of the dispenser island and immediately down-gradient):

- Operation of the DPE remediation system (interim remedial action) has been successful in mitigating groundwater impacts (see **Table 2** for decreasing groundwater trends in wells MW-28, MW-30, and MW-31); and,
- The potential vapor intrusion exposure, the diffuse groundwater discharge, degradation of surface water, and ingestion pathways are incomplete (via soil gas sampling and the groundwater characterization results (groundwater delineation)); however, potentially-complete exposure pathways were identified through the risk evaluation (specifically volatilization of constituents from groundwater, dermal contact, and soil particle inhalation pathways).

Environmental impacts (biological, physical, and/or chemical processes) to the site are a result of the diesel release that was suspected on December 18, 2014 and confirmed during the site characterization. The COI at the site have been identified, the source of the COI has been identified/confirmed, the COI potential migration pathways have been evaluated, but not fully eliminated, potential environmental receptors have been identified and addressed, and the limits of the area of impacts have been fully delineated.

#### 7.0 SELECTION OF REMEDIAL STANDARDS

Removal, closure, and remediation of USTs are regulated under the Storage Tank and Spill Prevention Act (Act 32) of August 5, 1989. These regulations were subsequently adopted and codified by PA under the PA Code as 25 PA Code, Chapter 245, Administration of the Storage Tank and Spill Prevention Program. Amendments to Chapter 245, Subchapters A, D, and E became effective on December 1, 2001 and were published in the PA Bulletin. The purpose of these amendments was to harmonize the corrective action process (Subchapter D) with PA's Land Recycling and Remediation Standards Act of 1995 (Act 2). The final rule-making for Act 2 was published in the PA Bulletin on August 16, 1997 as Annex A (Annex A), and subsequently codified as 25 PA Code, Chapter 250, Administration of Land Recycling Program, and modified/revised in November 2001.

Selection of appropriate MSCs under the Act 2 program is based on current and future land use scenarios. Act 2 provides for a three-tiered procedure for selection of remediation standards for the purpose of eventually attaining a relief-of-liability for contamination related to those constituents identified in the characterization process. Remediation standards may be selected from any one, or a combination of, the following standards: 1) Background Standards (BS), 2) SHS, and/or 3) Site-Specific Standards (SSS). SHS require minimal property use restrictions, if any.

Applicable MSCs under the SHS include values for both residential and non-residential use scenarios. Completion of the Act 2 process under a non-residential standard places a restriction on the future use of the land to ensure that property use is limited to non-residential. Completion of the Act 2 closure process utilizing residential standards and will not require any property restrictions.

In addition to the residential and non-residential options, the remediator must select between MSCs for a used-aquifer or non-used aquifer setting, which is usually dependent upon whether

potable water for the site and surrounding properties is provided by public (municipal) water service and what type of ordinance is in place regarding the use of supply wells.

Given these factors, the remedial standards selected for attainment of soil and groundwater at the United - Kwik Fill M-90 facility (PADEP Facility ID #17-14821) are the applicable PADEP UARSHS MSCs.

#### 8.0 CONCLUSIONS AND RECOMMENDATIONS

Subsurface soils at the site have been impacted by adsorbed-phase post-March 2008 PADEP diesel short list constituents at concentrations greater than their respective PADEP UARSHS MSCs as a result of the diesel release. Also, impacts to soil appear to be within the right-of-way of South 2<sup>nd</sup> Street; however, impacts to subsurface soils are fully delineated (vertical impacts beyond the soil-water interface is a groundwater issue (permanently saturated conditions)). Groundwater at the site has been impacted by dissolved-phase post-March 2008 PADEP diesel short list constituents at concentrations greater than their respective PADEP UARSHS MSCs as a result of the diesel release. Also, impacts observed in groundwater appear to have migrated from the subject property underneath South 2<sup>nd</sup> Street onto the Cleveland Brothers property; however, impacts to site groundwater are fully delineated.

In summary, impacts to subsurface soils and groundwater are localized in the vicinity of the diesel UST system (dispenser, product lines, and tanks (source area)) and immediately downgradient. In addition, potentially-complete exposure pathways were identified.

The site characterization is complete; therefore, a RAP will be prepared in order to fully address the COI potential human health risk exposure pathways and the potential contaminant exposure to environmental receptors. In addition, a RAP will be designed to mitigate identified impacts to site soils and groundwater, and to demonstrate attainment of the applicable PADEP UARSHS MSCs for soil and groundwater at the site. Remedial technologies that will be evaluated include:

- DPE, which is currently installed and operating at the site;
- Soil Excavation:
- Groundwater Extraction and Treatment;
- In-Situ Chemical Oxidation (ISCO);
- Monitored Natural Attenuation (MNA); and/or,
- A combination of the above technologies.

The following parameters will be considered in the evaluation of the remedial technologies:

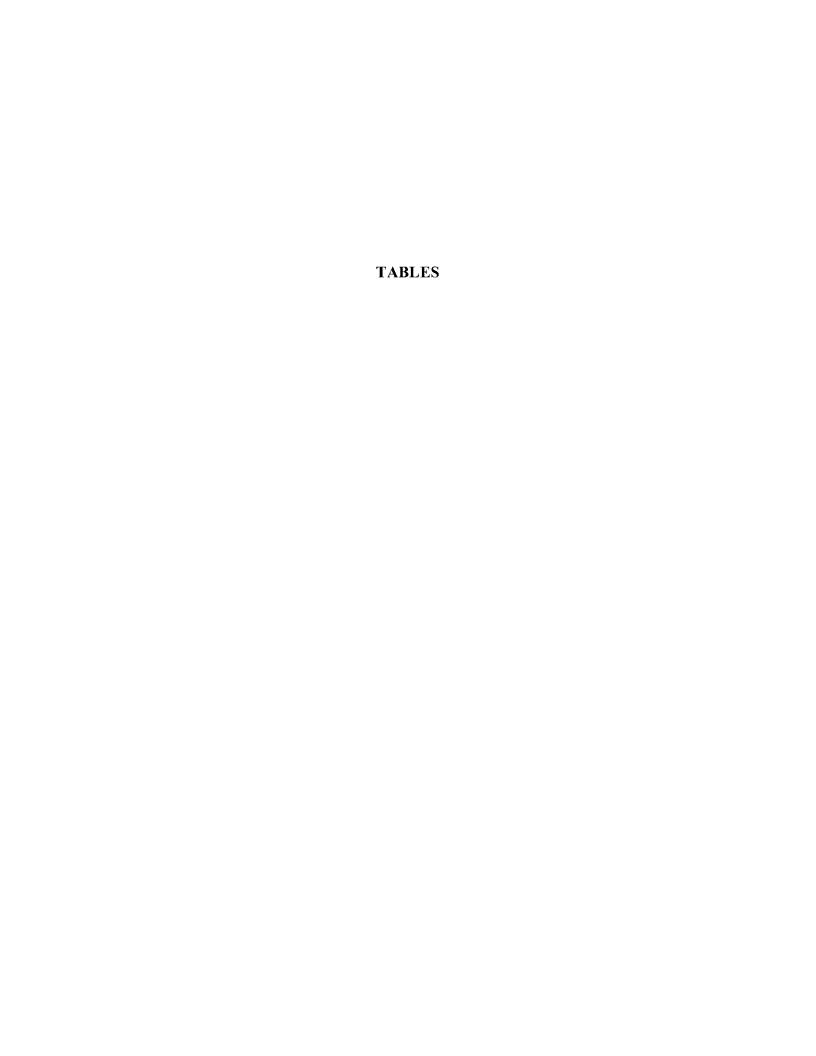
- The nature and severity of the release and subsequent impacts to site media;
- The technology limitations imposed by the physical, chemical, hydrogeologic, and biological framework of the site;
- The concentrations of COI within each impacted media requiring remediation; and,
- The cost-effectiveness of each remedial technology.

#### 9.0 REGULATORY PETITION

The Cleveland Brothers/Beckwith Machinery Company property owned by KF Land Holdings, LLC has a site specific closure with an attached EC agreement in regards to impacts associated with their former "parts cleaning"/oil-water separator/former UST area (source area). Monitoring wells MW-7 and MW-10 are immediately down-gradient of this source area and impacts identified (TMB compounds were previously not analyzed) in these wells are likely emanating from this source and unrelated to the Kwik Fill M-90 facility release. This was further clarified with the analytical results obtained from wells MW-5 and MW-12 (these wells were relocated/repaired/re-surveyed as part of the proposed additional site characterization activities). Letterle requests that MW-5 and MW-12 serve as the "off-property" down-gradient point-of-compliance monitoring wells in relation to the Kwik Fill M-90 facility release and that MW-7 and MW-10 be removed from the groundwater sampling list (no longer required to be sampled as part of the Kwik Fill M-90 investigation).

#### 10.0 REFERENCES

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- Commonwealth of Pennsylvania, Pennsylvania Code. 1995. The Land Recycling Program, Land Recycling and Environmental Remediation Standards Act. Act 2. PADEP, Harrisburg, PA.
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- Geyer, et al., 1982. <u>Engineering Characteristics of the Rocks of Pennsylvania</u>. Environmental Geology Report 1. Geyer, Alan R. and Wilshusen, J. Peter. Department of Environmental Resources, Office of Resource Management, Bureau of Topography and Geological Survey, pp. 228-231.
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# TABLE 1 SOIL ANALYTICAL RESULTS Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830

|                                    | _         |           |          |                     |              | Xylenes  |          |          | i i         |
|------------------------------------|-----------|-----------|----------|---------------------|--------------|----------|----------|----------|-------------|
| Sample ID                          | 1,3,5-TMB | 1,2,4-TMB | Benzene  | Toluene             | Ethylbenzene | (total)  | Cumene   | MTBE     | Naphthalene |
|                                    |           |           | Ma       | y 6 & 7, 20         | 15           |          |          |          |             |
| SB-1 (a) 4'                        | 14.6      | 18.4      | <1.88    | <4.70               | <4.70        | <9.41    | <4.70    | <4.70    | 4.82        |
| SB-2 @ 4'                          | <0.0038   | 0.0049    | 0.0149   | 0.0039              | 0.0056       | 0.0155   | <0.0038  | 0.0039   | <0.0038     |
| SB-3 @ 4'                          | 0.0075    | 0.0256    | 0.0123   | <0.0039             | 0.0224       | 0.0236   | <0.0039  | < 0.0039 | <0.0039     |
| SB-4 (a) 5'                        | < 0.0043  | 0.0053    | 0.0221   | ⊴0.0043             | 0.0053       | 0.0140   | < 0.0043 | < 0.0043 | < 0.0043    |
| SB-5 @ 5'                          | < 0.0042  | 0.0053    | 0.0138   | < 0.0042            | 0.0051       | 0.0113   | <0.0042  | < 0.0042 | < 0.0042    |
| SB-6 (a) 2.5'                      | 6,40      | 14.7      | 12.5     | < 0.975             | 26.3         | 14.3     | 2.56     | < 0.975  | 16.4        |
| SB-6 (a) 5'                        | 0.0050    | 0.0127    | 0.0784   | 0.0045              | 0.0099       | 0.0297   | < 0.0044 | < 0.0044 | <0.0044     |
| SB-7 (a) 4'                        | 2.28      | 4.83      | 1.89     | 1.63                | 1.22         | 4.94     | <1.03    | <1.03    | 3,24        |
| SB-8 (a: 4'                        | 59.1      | 182       | 1.51     | < 0.845             | 1.32         | 37.1     | <0.845   | < 0.845  | 12.9        |
| 5B-9 @ 4.5'                        | < 0.0039  | 0.0055    | 0.0351   | < 0.0039            | <0.0039      | 0.0214   | < 0.0039 | < 0.0039 | 0.0059      |
| SB-10 (a) 4'                       | < 0.0045  | < 0.0045  | 0.0053   | < 0.0045            | <0.0045      | < 0.0090 | <0.0045  | < 0.0045 | < 0.0045    |
| SB-11 (a) 2'                       | 199       | 568       | 45.8     | 4.13                | 151          | 729      | 20.2     | < 0.976  | 101         |
| SB-11 (a) 4.5'                     | 23.8      | 72.9      | 8.55     | < 0.932             | 12.7         | 57.7     | 1.86     | < 0.932  | 13.0        |
| SB-12 @ 4'                         | 91.7      | 148       | 0.0764   | 0.0097              | 0.0191       | 24.3     | <0,0051  | <0.0051  | 18.3        |
|                                    | ••        |           | Ju       | ne 15, <b>20</b> 1: | 5            |          |          |          |             |
| SB-13                              | < 0.0037  | <0.0037   | < 0.0015 | < 0.0037            | <0.0037      | < 0.0074 | <0.0037  | < 0.0037 | < 0.0037    |
| SB-14                              | < 0.0042  | < 0.0042  | <0.0017  | < 0.0042            | <0.0042      | < 0.0084 | <0.0042  | < 0.0042 | <0.0042     |
| SB-15                              | <0.0041   | <0.0041   | 0.0099   | < 0.0041            | -0.0041      | < 0.0082 | <0.0041  | <0.0041  | < 0.0041    |
| SB-16                              | 59.9      | 215       | < 0.358  | < 0.895             | 17.5         | 53.6     | 3.94     | < 0.895  | 18.0        |
| SB-17                              | <0.0040   | <0.0040   | <0.0016  | < 0.0040            | <0.0040      | <0.0081  | <0.0040  | < 0.0040 | < 0.0040    |
| SB-18                              | <0.0039   | <0,0039   | < 0.0016 | < 0.0039            | <0.0039      | < 0.0079 | < 0.0039 | <0.0039  | <:0.0039    |
|                                    |           |           | Aug      | ust 21, 20          | 15           |          |          |          |             |
| SB-19 (a) 3.5'                     | <0,0037   | < 0.0037  | <0.0015  | < 0.0037            | <0.0037      | <0.0074  | < 0.0037 | < 0.0037 | < 0.0037    |
| SB-20 (a) 3.5'                     | < 0.0040  | <0.0040   | <0.0016  | <0.0040             | < 0.0040     | <0.0081  | <0.0040  | < 0.0040 | <0.0040     |
| SB-21 (a/ 6'                       | < 0.0038  | <0.0038   | <0.0015  | <0.0038             | < 0.0038     | < 0.0077 | <0.0038  | <0.0038  | < 0,0038    |
| SB-22 (a) 6'                       | < 0.0054  | < 0.0054  | < 0.0022 | < 0.0054            | < 0.0054     | < 0.0109 | < 0.0054 | < 0.0054 | < 0.0054    |
| PADEP UARSHS MSCs<br>(Unsaturated) | 2.3       | 8.4       | 0.5      | 100                 | 70           | 1,000    | 600      | 2        | 25          |

#### Notes:

Results are reported in milligrams per kilogram (mg/kg).

Bold values indicate a result greater than the laboratory reporting limit (ERL).

Bold and shaded values indicate a result greater than the PADEP HARSHS MSCs.

#### Table 2 Historic Groundwater Gauging and Analytical Data Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830

|                 |            |         |         |         |         | Compo        | und           |                   |                |           |             |             |
|-----------------|------------|---------|---------|---------|---------|--------------|---------------|-------------------|----------------|-----------|-------------|-------------|
|                 | l          |         |         |         | Ethyl-  | Xylenes      |               |                   |                |           | 1           |             |
| Piezometer/Well | Date       | MTBE    | Benzene | Toluene | benzene | (Total)      | Cumene        | Naphthalene       | 1,3,5-TMB      | 1.2.4-TMB |             |             |
| PADEP UARSHS    |            | 20      | 5       | 1.000   | 700     | 10,000       | 840           | 100               | 13             | 15        | Depth-to-   | Groundwater |
| MSCs            |            | 20      |         | 1,000   |         | 10,000       | 040           | ·                 |                |           | Groundwater | Elevation   |
| MW-1            | 3/17/2010  | 10.9    | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 2.26        | 1113.94     |
|                 | 6/8/2010   | 11.2    | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.08             | NS             | NS        | 2.57        | 1113.63     |
|                 | 8/30/2010  | 18.6    | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 4.78        | 1111.42     |
|                 | 11/17/2010 | 13.7    | <1.00   | <1,00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | _ NS      | 3.40        | 1112.80     |
|                 | 3/1/2011   | 6.6     | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 1.78        | 1114.42     |
|                 | 5/31/2011  | 13.5    | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 3.75        | 1112.45     |
|                 | 8/24/2011  | 12.1    | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 4.12        | 1112.08     |
|                 | 3/28/2012  | 14.8    | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 2.12        | 1114.08     |
|                 | 6/25/2012  |         |         |         |         | Monitoring : | well converte | ed to remedial ex | traction well. |           |             |             |
|                 | 12/17/2014 | ≤1,00   | <1.00   | <1.00   | <1.00   | <2.00        | <1.00         | <1.00             | NS             | NS        | 3.51        | 1112.69     |
|                 | 3/31/2015  | <1.00   | <1.00   | <1.00   | <1.00   | <2.00        | <1.00         | <1.00             | NS             | NS        | 2.64        | 1113.56     |
|                 | 5/4/2015   | <1.00   | <1.00   | <1.00   | <1.00   | <2.00        | <1.00         | <1.00             | <1.00          | <1.00     | 3,45        | 1112.75     |
|                 | 5/26/2015  | <1.00   | <1.00   | < 1.00  | <1.00   | <2.00        | <1.00         | <1.00             | <1.00          | <1.00     | 6.65        | 1109.55     |
|                 | 9/14/2015  | <1.00   | <1.00   | <1.60   | <1.00   | <2.00        | <1.00         | <1.00             | ≤1.00          | <1.00     | 6.55        | 1109.65     |
| MW-1A           | 3/17/2010  | 7.1     | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 2.57        | 1114.53     |
|                 | 6/8/2010   | 6.9     | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | < 2.00            | NS             | NS        | 2.86        | 1114.24     |
|                 | 8-30/2010  | 16.3    | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 5.32        | 1111.78     |
|                 | 11/17/2010 | 10.6    | <1.00   | <1,00   | <1.00   | <3.00        | <1.00         | < 2.00            | NS             | NS        | 3.88        | 1113.22     |
|                 | 3/1/2011   | <1.(90) | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 2.04        | 1115.06     |
|                 | 5/31/2011  | 4,2     | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 4.29        | 1112.81     |
|                 | 8/24/2011  | 8.6     | <1.00   | <1.00   | <1.00   | <3.00        | <1.00         | <2.00             | NS             | NS        | 4.65        | 1112.45     |
|                 | 3/28/2012  | <1.00   | <1.00   | <1.00   | <1.00   | <3.90        | <1.00         | <2.00             | NS             | NS        | 2.55        | 1114.55     |
|                 | 6/25/2012  |         |         |         |         | Monitoring   | well converte | ed to remedial ex | traction well. |           |             |             |
|                 | 12/17/2014 | <1.00   | <1.00   | <1.00   | <1.00   | <2.00        | <1.00         | <1.00             | NS             | NS        | 4.38        | 1112.72     |
|                 | 3/31/2015  | <1.00   | <1.00   | <1.00   | <1.00   | <2.00        | <1.00         | <1.00             | NS             | NS        | 3.62        | 1113.48     |
|                 | 5/4/2015   | <0.1>   | <1.00   | <1.00   | <1.00   | <2.00        | <1.00         | <1.00             | <1.00          | <1.00     | 4.55        | 1112.55     |
|                 | 5/26:2015  | 2.16    | <1.00   | <1.00   | <1.00   | <2.00        | <1.00         | <1.00             | <1.00          | <1.00     | 7.26        | 1109.84     |
|                 | 9/14/2015  | 4.17    | <1.00   | <1.00   | <[.00   | <2.00        | <1.00         | <1.00             | <1.00          | <1.00     | 7.31        | 1109.79     |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                      |            |        |          |          |                   | Compound           | nnd                      |             |                  |           |                          |                          |
|----------------------|------------|--------|----------|----------|-------------------|--------------------|--------------------------|-------------|------------------|-----------|--------------------------|--------------------------|
| Piezometer/Well      | Date       | MTBE   | Benzene  | Toluene  | Ethyl-<br>benzene | Nylenes<br>(Total) | Cumene                   | Naphthalene | 1.3,5-TMB        | 1,2,4-TMB |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20     | L/T)     | 1,000    | 200               | 10,000             | 840                      | 100         | 13               | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-2                 | 3/17/2010  | 20.4   | <1.60    | ()(i   ) | <1.00             | <3.00              | <1.00                    | <2.00       | SN               | SX        | 3.07                     | 1113.47                  |
|                      | 678/2010   | 20.5   | <1.00    | <1.00    | <1.00             | <5.00              | <1.00                    | <2.00       | NS               | NS        | 3.36                     | 1113.18                  |
|                      | 8/30/2016  | 20.5   | <1.00    | <1.00    | <1.00             | <3.00              | <1.06                    | <2.00       | NS               | SN        | 5.61                     | 1110.93                  |
|                      | 11/17/2010 | 20.1   | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | NS               | NS        | 4.36                     | 1112.18                  |
|                      | 3/1/2011   | 0.11   | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | NS               | SN        | 2.73                     | 1113.81                  |
|                      | 5/31/2011  | 9.01   | <1.00    | <1.00    | >1.00             | <3.00              | <1.00                    | <2.00       | SN               | NS        | 4.68                     | 1111.86                  |
|                      | 8/24/2011  | 14.3   | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | NS               | NS        | 4.90                     | 1111.64                  |
|                      | 3/28/2012  | 11.5   | L.1      | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | NS               | NS        | 2.85                     | 1113.69                  |
|                      | 6/25/2012  |        |          |          | Ì                 | Vonnoring v        | Montoring well converted | to remedia) | extraction weil. |           |                          |                          |
|                      | 12/17/2014 | <1.00  | <1.00    | <1.00    | <1.00             | <2.00              | <1.00                    | <1.00       | NS               | NS        | 3.79                     | 1112.75                  |
|                      | 3/31/2015  | <1.00  | <1.00    | <1.00    | <1.00             | <2.00              | <1.00                    | <1.00       | NS               | SN        | 3.10                     | 1113.44                  |
|                      | 5/4/2015   | <1.00  | <1.00    | <1.00    | <1.00             | <2.00              | <1.00                    | <1.00       | <1.00            | <1.00     | 4.01                     | 1112.53                  |
|                      | \$/26/2015 | 1.41   | <1.00    | 100 TV   | 00.□              | <2.00              | <1.00                    | <1.00       | <1.00            | 90°1>     | 7.06                     | 1109.54                  |
|                      | 9/14/2015  | <1.00  | <1.00    | 00.1>    | <1.00             | 00.5               | <1.00                    | <1.00       | <1.00            | <1.00     | 6.80                     | 1109,74                  |
| MW-2A                | 3/17/2010  | 00:1>  | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | SÑ               | NS        | 1.21                     | 1115.07                  |
|                      | 6/8/2010   | 001>   | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | NS               | NS        | 1.27                     | 1115.01                  |
|                      | 8/30/2010  | 001>   | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | SN               | SN        | 3.23                     | 1113.05                  |
|                      | 11/17/2010 | 00.1>  | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | NS               | SN        | 2.25                     | 1114.03                  |
|                      | 3/1/2011   | <1.00  | 00'1>    | <1.00    | 2.69              | 09.0€              | 21.00                    | <2.00       | SNS              | SZ        | 0.91                     | 1115.37                  |
|                      | 5/31/2011  | <1.00  | 00.1>    | <1.00    | <1.00             | 3.00               | <1.00                    | <2.00       | NS               | SZ        | 2.16                     | 1114.12                  |
|                      | 8/24/2011  | <1.00  | <1.00    | <1.00    | <1.00             | <3.00              | <1.00                    | <2.00       | SN               | SZ        | 2.52                     | 1113.76                  |
|                      | 3/28/2012  | <1.00  | <1.00    | <1.00    | <1.00             | €3.00              | <1.00                    | 2.00        | SN               | SZ        | 0.45                     | 1115.83                  |
|                      | 6/25/2012  | 5.22   | <1.00    | <1.00    | <1.89             | 00.7               | <1.00                    | <1.00       | SN               | SZ        | 4.51                     | 1111.77                  |
|                      | 9:6:2012   | <1.00  | <1.00    | <1.00    | <1.00             | 00.5               | <1.00                    | <1.00       | SN               | SZ        | 3.21                     | 1113.07                  |
|                      | 12/14/2012 | 00.1≥  | <1.00    | √1.00    | <1.00             | <2.00              | <1.00                    | <1.00       | NS               | SNS       | 4.12                     | 1112.16                  |
|                      | 3/5/2013   | <1.00  | <1.00    | <1.00    | 00.I>             | <2.00              | <1.00                    | <1.00       | SN               | SZ.       | 4.30                     | 1111.98                  |
|                      | 5/28/2013  | <1.08  | 90.12    | <1.00    | <1.00             | 8.6                | <1.00                    | <1.00       | SX               | NS        | 3.00                     | 1113.28                  |
|                      | 9/9/2013   | 00.€>  | <1.00    | <1.00    | (3).              | 00.5               | <1.00                    | <1.00       | SS               | SS        | ÷.06                     | 1112.22                  |
|                      | 12/2/2013  | <1.00} | 2.2      | <1.00    | <1.00             | 00.0₹              | <1.00                    | <1.00       | NS               | NS        | 3.48                     | 1112.80                  |
|                      | 3/25/2014  | <1.00  | 21.8     | <1.00    | √1.00             | 8.0                | O0.1>                    | <1.00       | NS               | NS        | 3.67                     | 1112.61                  |
|                      | 6/11/2014  | <1.00  | <1.00    | <1.00    | <1.00             | 2.00               | <1.00                    | <1.00       | NS               | SN        | 3.90                     | 1112.38                  |
|                      | 9/24/2014  | <1.00  | <1.00    | <1.00    | <1.00             | <2.00              | <1.08                    | 00.1>       | SN               | SN        | 4.20                     | 1112.08                  |
|                      | 12/17/2014 | 77.00  | 08.<br>□ | 00.1≥    | ×1.00             | <2.00              | ~f.09                    | <1.00       | SS               | SX        | 1.80                     | 1114,48                  |
|                      | 3/31/2015  | <1.00  | <1.00    | 00.1v    | 00'T>             | 00.00°             | €0°1>                    | <1.00       | SZ               | SZ        | 1.38                     | 1114,90                  |
|                      | 54/2015    | <1.00  | <1.00    | <1.00    | 90" >             | <2.00              | <1.00                    | 00'1>       | 00'1>            | <1.00     | 2.00                     | 1114.28                  |
|                      | 5/26/2015  | <1.00  | <1.00    | <1.00    | <1.00             | €2.00              | <1.08                    | <1.00       | 60.1>            | 00.1>     | 3.61                     | 1112.67                  |
|                      | 9/14/2015  | <1.00  | <1.00    | >1.00    | <1,00             | <2.00              | <1.00                    | <0.01>      | <1.00.1>         | <1.00     | 3.85                     | 1112.43                  |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                      |            |      |               |         |         | Compound | nud    |             |           |           |                          |                          |
|----------------------|------------|------|---------------|---------|---------|----------|--------|-------------|-----------|-----------|--------------------------|--------------------------|
|                      |            |      |               |         | Ethyl-  | Nylenes  |        |             |           |           |                          |                          |
| Piczometer/Well      | Date       | MTBE | Велгене       | Toluene | benzene | (Total)  | Cumene | Naphthalene | 1.3,5-TMB | 1.2.4-TMB |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20   | va            | 1,000   | 200     | 10,000   | 840    | 101         | 13        | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-3                 | 3/18/2010  | 43.2 | <1.00         | (1011>  | <1.00   | <3.00    | 00.1>  | <2.90       | SN        | SX        | 2.43                     | 1112.16                  |
|                      | 6/7/2010   | 44.0 | >1.00         | <1.00   | <1.60   | <3.00    | 00.1>  | <2.00       | SX        | SX        | # 2                      | 1112.19                  |
|                      | 8.31/2010  | 41.4 | <1.00         | <1.00   | <1.00   | <3.00    | 00'1>  | 2.00        | SN        | SN        | 3.02                     | 1110.67                  |
|                      | 11/17/2010 | 40.3 | <1.00         | <1.00   | <1.00   | <3.00    | <1.00  | <2.00       | SN        | SN        | 3,48                     | 1111.11                  |
|                      | 3/2/2011   | 33.2 | <1.00         | <1.00)  | <1.00   | <3.00    | <1.00  | <2.00       | SN        | SN        | 1.81                     | 1112.78                  |
|                      | 5/31/2011  | NS   | NS            | SX      | SN      | NS       | NS     | SN          | SN        | SN        | OZ.                      | NG                       |
|                      | 8/24/2011  | 32.3 | <1.00         | <1.00   | < 1.00  | <3.00    | <1.00  | <2.00       | SN        | SN        | 3.38                     | 1111.21                  |
|                      | 3/28/2012  | NS   | NS            | NS      | NS      | SZ       | NS     | SN          | SN        | NS        | 1.40                     | 1113.19                  |
|                      | 6.25/2012  | 21.9 | -00°1>        | <1.00   | <1.00   | <2.00    | 001>   | <1.00       | SN        | SX        | 5.13<br>5.13             | 1111.42                  |
|                      | 9:6:2012   | 27.5 | <1.00         | <1.00   | <1.00   | <2.00    | <1.00  | <1,00       | NS        | SX        | r-[-한                    | 1110.42                  |
|                      | 12:14/2012 | 18.4 | 00°1>         | <1.00   | <1.00   | <2.00    | <1.00  | <1.00       | NS.       | SN        | 5.63                     | 1108.96                  |
|                      | 3/5/2013   | 11.8 | 13,4          | <1.00   | <1.00   | <2.00    | <1.00  | <1.00       | NS        | SN        | 5.36                     | 1109.23                  |
|                      | \$/28/2013 | 12.6 | <1.00         | S. 12   | <1.00   | <2.00    | <1.00  | <1.00       | SN        | NS        | 01°t                     | 1110.19                  |
|                      | 9/9/2013   | 20.1 | <1.00         | <1.00   | <1.00   | <2.00    | <1.00  | <1.00       | NS        | NS        | 5.42                     | 1109.17                  |
|                      | 12/2/2013  | 17.2 | <1.00         | <1.00   | 1.55    | <2.00    | 1.65   | <1.00       | NS        | SX        | 5,45                     | 1199.64                  |
|                      | 3/25/2014  | 13.5 | 00.0          | <2.00   | <2.00   | <4.00    | <2.00  | <2.00       | NS        | NS        | 5.30                     | 1109 29                  |
|                      | 6/11/2014  | 15.9 | <1.06         | 00:TV   | <1.00 € | 09.02    | 00']>  | <1.00       | NS        | NS        | 5.47                     | 1109.12                  |
|                      | 9:24/2014  | 4.60 | <1.00         | <1.00   | <1.00   | 7.00     | <1.00  | <1.00       | NS        | NS        | 5.69                     | 1108.90                  |
|                      | 12/17/2014 | 8.51 | <1.00         | 00::>   | 2.57    | 2,35     | 1.36   | 1.10        | NS        | NS _      | 3.90                     | 1110.69                  |
|                      | 3/31/2015  | 3.94 | √1.00<br>1.00 | <1.00   | 1.17    | 00.<br>V | <1.00  | <1.00       | NS        | NS        | 2.62                     | 1111.97                  |
|                      | 5:4/2015   | SN   | S N           | NS      | NS      | NS       | NS     | NS          | NS        | SN        | ĐΝ                       | NG                       |
|                      | 5/26/2015  | 7.32 | <1,00         | <1.00   | 4.03    | 3.74     | 1.56   | 1.14        | <1.60     | 05'6      | 5.00                     | 1109.59                  |
|                      | 9/14/2015  | 2,82 | <1.00         | <1.00   | <1.90   | <2.00    | <1.00  | <1.00       | <1.00     | <1.00     | 6.12                     | 1108.47                  |
|                      |            |      |               |         |         |          |        |             |           |           |                          |                          |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                      |            |       |         |         |                   | Compound             | nnd     |             |            |           |                          |                          |
|----------------------|------------|-------|---------|---------|-------------------|----------------------|---------|-------------|------------|-----------|--------------------------|--------------------------|
| Diamorana            | ţ          | MTRE  | Ronzene | Toluone | Ethyl-<br>bonzone | Xylenes<br>(Torral)  | Cumente | Vonhtholone | 1 3 5. TMB | 1 2 4.TMB |                          |                          |
| PADEP CARSHS<br>MSCs |            | 20    | v       | 1.000   | 700               | 10.000               | 940     | 100         | 13         | 1         | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-4                 | 3/18/2010  | <1.00 | 00.1>   | 00.15   | <1.00             | <5.00                | <1.00   | 27:00       | SN         | SZ        | 56.0                     | 1111.60                  |
|                      | 6.7.2010   | 00.1≥ | 00:12   | <1.00   | <1.00             | <3.00                | <1.00   | 2.00        | SZ         | SN        | 2.17                     | 1110.40                  |
|                      | 8/31/2010  | <1.00 | 00:1>   | 00":>   | <1.00             | €3.00                | <1.00   | 00.5>       | SN         | SN        | P                        | 1108.13                  |
|                      | 11/17/2010 | <1.00 | <1.00   | <1.00   | <1.00             | <3.00                | <1.00   | 00.5        | SN         | SN        | 3.26                     | 16,6011                  |
|                      | 3/2/2011   | <1.00 | 00'1>   | <1.00   | <1.00             | €3.00                | <1.00   | €.00        | SX         | SN        | 0.92                     | 1111.65                  |
|                      | 5/31/2011  | SZ    | SY.     | SX      | SN                | NS                   | SZ      | SN          | SS         | SN        | NG                       | NG                       |
|                      | 8/24/2011  | <1.00 | 00.1>   | <1.00   | <1.00             | <3.00                | 00'1>   | <2.00       | NS         | SN        | 3.24                     | 1109.33                  |
|                      | 3:28:2012  | 00.1× | 877     | 00.1△   | <1.00             | ( <del>)</del> (3.9) | <1.00   | 09:₹        | SX.        | SN        | 1.20                     | 1111.37                  |
|                      | 6/25/2012  | >1.00 | <1.00   | <1.00   | <1.00             | <2.00                | <1.00   | <1.00       | NS         | SN        | 2,74                     | 1109.83                  |
|                      | 2102/9/6   | <1.00 | <1.00   | <1.00   | <1.00             | <2.00                | 00.1>   | 00'1>       | SN         | SN        | 4,11                     | 1108.46                  |
|                      | 12/14/2012 | <1.00 | <1.00   | 00:1>   | <1.60             | <2.00                | 00'1>   | <1.00       | SN         | NS        | 3.40                     | 1109.17                  |
|                      | 3/5/2013   | <1.00 | 00.1>   | (00:1>  | <1.00             | <2.00                | <1.00   | <1.00       | NS         | NS        | 2.58                     | 1109.93                  |
|                      | 5/28/2013  | <1.00 | <1.00   | <1.00   | <1.00             | <2.00                | D0'1>   | <1.00       | SN         | SN        | 3.61                     | 1108.96                  |
|                      | 9/9/2013   | <1.00 | <1.00   | 08°i>   | <1.00             | <2.00                | <1.00   | <1.00       | NS         | NS        | 5.00                     | 1107.57                  |
|                      | 12/2/2013  | 00'1> | 00:1>   | <1.90   | <1.00             | <2.00                | 00'1>   | <1.00       | NS         | NS        | 4.40                     | 1108.17                  |
|                      | 3/25/2014  | <1.00 | <1.00   | <1.80   | <1.00             | <2.00                | <1.00   | <1.00       | NS         | SS        | 2.90                     | 1109.67                  |
|                      | 6/11/2014  | 00'1> | <1.00   | <1.90   | <1.00             | <2.00                | 00.1>   | 0.01>       | NS         | SN        | 3,71                     | 1108.86                  |
|                      | 9/24/2014  | <1.00 | <1.00   | <1.00   | <1.00             | <2.00                | 00'1>   | <1.00       | NS         | NS        | 4.85                     | 107.72                   |
|                      | 12/17/2014 | <1.00 | <1.00   | <1.90   | <1.00             | <2.00                | 00'1>   | <1.00       | NS         | NS        | 3.10                     | 1109.47                  |
|                      | 3/31/2015  | <1.00 | <1.00   | <1.00   | <1.00             | <2.00                | <1.00   | <1.00       | NS         | NS        | 1.12                     | 1111.45                  |
|                      | 5/4/2015   | NS.   | NS      | NS      | NS                | NS                   | NS.     | NS          | NS         | NS        | NG                       | NG                       |
|                      | \$/26/2015 | <1.00 | <1.00   | <1.00   | <1.00             | <2.00                | <1.00   | <1.00       | <1.00      | <1.00     | 4.35                     | 1108.22                  |
|                      | 9/14/2015  | <1.00 | <1.80   | <1.00   | <1.00             | 2.00                 | <1.00   | 00'1>       | <1.90      | <1.00     | 5.34                     | 1107.23                  |
|                      |            |       |         |         |                   |                      |         |             |            | 1         | •                        |                          |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                 |            |         |         |         |                            | Compound | nud           |                                              |                 |           |              |              |
|-----------------|------------|---------|---------|---------|----------------------------|----------|---------------|----------------------------------------------|-----------------|-----------|--------------|--------------|
|                 |            |         |         |         | Ethyl-                     | Xylenes  |               |                                              | 5               |           |              |              |
| Piezometer/Well | Date       | MTBE    | Benzene | Toluene | benzene                    | (Total)  | Cumene        | Naphthalene                                  | 1,3,5-TMB       | 1,2,4-TMB |              |              |
| PADEP UARSHS    |            | 07      | 17.     | 1,000   | 700                        | 10.000   | 840           | 691                                          |                 | <u> </u>  | Depth-to-    | Groundwater  |
| MSCs            |            |         | ,       | 2       | 2                          |          |               |                                              |                 |           | Groundwater  | Elevation    |
| MW-5            | 3:17/2010  | 5.4     | <1.00   | <1.05   | <1.00                      | <3.00    | <1.00         | <2.00                                        | SS              | NS        | 917          | 1112.65      |
|                 | 6.7/2010   | 4.8     | <1.00   | <1.00   | <1.00                      | <3.00    | <1.00         | <2.00                                        | NS              | SX        | 1.53         | 1112.28      |
|                 | 8/31/2010  | 3.8     | <1.00   | <1.00   | <1.00                      | <3.00    | 001>          | 00.5<br>7.00                                 | XS.             | SX        | 31.6<br>31.6 | 1110 63      |
|                 | 11/17/2010 | 2.6     | <1.00   | <1.08   | <1.00                      | <3.00    | <1.00         | <2.00                                        | SZ              | SN        | 2.80         | 1111.61      |
|                 | 3/1/2011   | 1.2     | <1.00   | <1.00}  | <1.00                      | <3.00    | <1.00         | 00.5>                                        | SN              | SN        | 6.43         | 1113.38      |
|                 | 5/31/2011  | SN      | SN      | NS      | SX                         | SN       | SN            | SN                                           | SN              | SS        | ŊĊ           | NG<br>NG     |
|                 | 8:24:2011  | 5.7     | >1.00   | <1.00   | <1.00                      | <3.00    | <1.00         | <2.00                                        | SZ              | SX        | 2,64         | 1111.17      |
|                 | 3/28/2012  | NS      | NS      | SÑ      | SN                         | SZ       | SN.           | SN                                           | SZ              | SX        | 1,04         | 1112.77      |
|                 |            |         |         | We      | Well could not be located  | ١.       | Vell not part | Well not part of quarterly sampling program  | ipling program. |           |              |              |
| -               | 9/14/2015  | 3.06    | >1.00   | <1.00   | <1.00                      | <2.00    | <1,00         | >1,00                                        | <1.00           | <1.00     | 6.55         | 1107.26      |
| 9-MK            | 3/17/2010  | SN      | SN      | NS      | NS                         | NS       | SN            | SN                                           | SX              | SN        | ŊŊ           | Not Surveyed |
|                 | 6/7/2010   | SN      | NS.     | NS.     | NS                         | SN       | SN            | SN                                           | SN              | SN        | ŊĊ           | Not Surveyed |
|                 | 8/31/2010  | SZ      | SN      | NS      | NS                         | NS       | NS            | NS                                           | SN              | NS        | ŊĊ           | Not Surveyed |
|                 | 11/17/2010 | v.<br>Z | SN.     | NS      | NS                         | SN       | NS            | SN                                           | SN              | SS        | NG           | Not Surveyed |
|                 | 3/1/2011   | SN      | SN      | SN      | NS                         | SZ       | NS            | NS                                           | NS              | NS        | NG           | Not Surveyed |
|                 | 5/31/2011  | SN      | SZ      | SS.     | SN                         | NS       | SN            | SN                                           | NS              | NS        | ŊŊ           | Not Surveyed |
|                 | 8.24.2011  | SZ      | SS      | NS      | NS                         | NS       | NS            | NS                                           | NS              | NS        | NG           | Not Surveyed |
|                 | 3,28/2012  | SN      | SKS     | NS      | NS                         | SN       | SN            | SN                                           | SN              | SN        | ŊĊ           | Not Surveyed |
|                 |            |         |         | We      | Well could not be located. |          | Vell not part | Well not part of quarterly sampling program. | upling program. |           |              |              |
|                 |            |         |         |         |                            |          |               |                                              |                 |           |              |              |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
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|          |         |                 | Groundwater<br>Elevation | 1106.92   | 1103.75  | 1101.60   | 1102,67    | 1105.59  | DN        | 1162.31   | 11.02.37  | 1102.03   | 1101.76  | 1103.72    | 1102.97  | 1103.22   | 1101.73  | 1102.44   | 1103.26   | 1102.72   | 1101.50   | 1103.50    | NG        | NG       | NG        | 1101.45   |
|----------|---------|-----------------|--------------------------|-----------|----------|-----------|------------|----------|-----------|-----------|-----------|-----------|----------|------------|----------|-----------|----------|-----------|-----------|-----------|-----------|------------|-----------|----------|-----------|-----------|
|          |         |                 | Depth-to-<br>Groundwater | 2.50      | 5.77     | 7.92      | 6.85       | 3.93     | NG        | 7.21      | 7.15      | 7.49      | 7.76     | 5.80       | 6.55     | 6.30      | 7.80     | 7.08      | 6.26      | 6.80      | 8.02      | 6.02       | SN        | NG       | D'G       | 8.07      |
|          |         | 1.2,4-TMB       | 15                       | SX        | SN       | ŠN        | SN         | NS       | SN        | SN        | SN        | ) SN      | SN       | SN         | NS       | SN        | SN       | SN        | SN        | NS        | SN        | NS         | NS        | NS       | NS        | 27.9      |
|          |         | 1,3,5-TMB       | 13                       | NS        | NS       | SN        | NS         | NS       | SN        | NS        | NS        | SS        | NS       | NS         | NS       | NS        | NS       | NS        | NS        | NS        | NS        | NS         | NS        | NS       | NS        | 11.3      |
|          |         | Naphthalene     | 100                      | 44.5      | 61.3     | 38.7      | 57.7       | 20.9     | ŠN        | 10.7      | NS        | <1.00     | 00.℃     | 65.4       | 3.28     | <1.00     | <1.00    | 38.6      | <2.00     | <1.00     | <1.00     | <1.00      | SN        | NS       | NS        | 11.8      |
| und      |         | Cumene          | 840                      | 25.6      | 35.4     | 29.3      | 27.3       | 22.4     | SN        | £11£      | NS        | <1.00     | <2.00    | 29.0       | 2.25     | 68.1      | 2.75     | 17.0      | <2.00     | <1.00     | 00'1>     | 1.60       | NS        | NS       | NS        | 10.4      |
| Compound | Xylenes | (Total)         | 10,000                   | 54.7      | 60.3     | 49.2      | f°L†       | 27.7     | SN        | 28.5      | SN        | 00.5>     | 00'+>    | 43.6       | 91.5     | <2.00     | 00.℃     | 17.1      | 00'7>     | <2.00     | <2.00     | <2.00      | SN        | SZ       | NS        | 4.18      |
|          | -Jay13  | henzene         | 004                      | 44.4      | 55.2     | 6'24      | 5'9#       | 39.3     | SN        | 25.8      | SN        | <1.00     | 00.2>    | 89.5       | 2.67     | 1.07      | <1.00    | 29.3      | <2.00     | <1.00     | <1.00     | >1.00      | NS        | N.S.     | NS        | 2.41      |
|          |         | Toluene         | 1.000                    | 11.5      | 12.9     | 14.4      | 12.5       | 8.8      | SN        | 10.2      | SX        | <1.00     | <2.00    | 14.8       | 2.29     | <1.00     | <1.00    | 18'6      | <2.00     | <1.00     | <1.00     | <1.00      | SN        | SN       | SN        | 2,33      |
|          |         | Веплепе         | \$                       | 5'65      | 27.7     | 104       | 6'16       | 6'15     | SN        | 73.8      | SN        | 00.1>     | YN.      | ΥN         | WN       | VN        | VN       | VN        | VV        | VN        | NA        | YX         | SN        | SN       | SN        | SN        |
|          |         | MTBE            | 20                       | 3.6       | 3.1      | 6.8       | 7.2        | 4.1      | NS        | 7.7       | SN        | 3.84      | 10.6     | <2.00      | <1.00    | <1.00     | 5.10     | 2.97      | 2.42      | 2.58      | 2.09      | 2.93       | NS        | NS       | NS.       | 2.30      |
|          |         | Date            |                          | 3/18/2010 | 6/2/2010 | 8/31/2010 | 11/17/2010 | 3/2/2011 | 5/31/2011 | 8/24/2011 | 3/28/2012 | 6/25/2012 | 9/6/2012 | 12/14/2012 | 3/5/2013 | 5/28/2013 | 9/9/2013 | 13/2/2013 | 3/25/2014 | 6/11/2014 | 9/24/2014 | 12/17/2014 | 3/31/2015 | 5/4/2015 | 5/26/2015 | 9/14/2015 |
|          |         | Piczometer/Well | PADEP UARSHS<br>MSCs     | MW-7      |          |           |            |          |           |           |           |           |          |            |          |           |          |           |           |           |           |            |           |          |           |           |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
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|                      |            |           |         |         |                   | Сопроия            | pun           |             |          |           |                          |                          |
|----------------------|------------|-----------|---------|---------|-------------------|--------------------|---------------|-------------|----------|-----------|--------------------------|--------------------------|
| Piezometer/Well      | Date       | MTBE      | Benzene | Toluene | Ethyl-<br>benzene | Xylenes<br>(Total) | Ситепе        | Naphthalene | 13.5-TMB | 1,2,4-TMB |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20        | 16      | 1,000   | 700               | 10,000             | 840           | 100         | 13       | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| 6-WW                 | 3/17/2010  | NS        | SN      | SN      | N.S.              | SX                 | SN            | SN          | SN       | S. S.     | DN.                      | Not Surveyed             |
|                      | 6/8/2010   | 32.8      | <1.90   | <1.00   | <1.00             | <3.00              | <1.00         | <2.00       | SX       | SN        | 00.00                    | Net Surveyed             |
|                      | 8.30/2010  | SN        | NS      | SN      | NS                | NS.                | SX            | SN          | NS       | SN        | SZ.                      | Not Surveyed             |
|                      | 11/17/2010 | NS        | SN      | SN      | NS                | NS                 | NS            | SN          | SN       | SN        | SZ.                      | Net Surveyed             |
|                      | 3/1/2013   | NS        | SZ      | SN      | NS                | NS.                | NS            | SX          | NS       | SN        | SZ                       | Not Surveyed             |
|                      | 5/31/2011  | NS        | NS      | SS      | SN                | SX                 | NS.           | SN          | SX       | SN        | 92                       | Not Surveyed             |
|                      | 8/24/2011  | NS        | SN      | SN      | SN                | NS .               | SX            | ŠN          | SN       | NS        | ŊŊ                       | Not Surveyed             |
|                      | 3/28/2012  | NS        | SN      | SN      | SK                | NS                 | NS            | SZ          | SN       | SN        | 9N                       | Not Surveyed             |
|                      |            |           |         |         |                   | Well               | could not be  | oca:        |          |           |                          |                          |
| MW-10                | 3/17/2010  | 8.6       | <1.90   | <1.00   | 00.1≻             | <3.00              | <1.00         | <2.00       | SN       | SN        | 1.64                     | 1108.37                  |
|                      | 6/7/2010   | 8.8       | <1.00   | 00.1>   | <1.00             | <3.00              | <1.00         | <2.00       | NS       | SZ        | 0.78                     | 1109.23                  |
|                      | 8/31/2010  | t-;<br>90 | <1.60   | > 00.1> | <1.00             | <3.00              | <1.00         | 007>        | SN       | SN        | 2.08                     | 1107.93                  |
|                      | 11/17/2010 | 7.7       | <1.00   | <1.00   | <1.00             | <3.00              | <1.00         | <2.00       | SZ       | SN        | 2.50                     | 1107.51                  |
|                      | 3/2/2011   | 17        | <1.00   | <1.00   | <1.00             | 3.00 E             | <1.00         | 00.5>       | SN       | SN        | 0.14                     | 1109.87                  |
|                      | 5.31/2011  | NS        | SN      | Š       | NS                | NS.                | 88            | SX          | SN.      | SN        | ŊĊ                       | NG                       |
|                      | 8/24/2011  | 7.5       | <0.10   | 00.1^   | <1.00             | €3.00              | <1.00         | <2.00       | NS       | NS        | <del>1</del>             | 1108.59                  |
|                      | 3/28/2012  | NS.       | NS      | SZ      | SN.               | SS                 | NS            | SN          | SN       | NS        | 1.43                     | 1108.59                  |
|                      | 6/25/2012  | 5.01      | <1.00   | <1.00   | <1.00             | <2.00              | <1.00         | 00'1>       | NS       | SN        | 1.23                     | 1108.78                  |
|                      | 9/6/2012   | 6.16      | <1.90   | <1.00   | <1.00             | <2.08              | <1.00         | <1.00       | SN       | SN        | 2.30                     | 1622011                  |
|                      | 12/14/2012 | 5.56      | 00.[>   | <1.00   | 00.1∨             | <2.00              | <1.00         | 00:1>       | SN       | SN        | 2.08                     | 1107.93                  |
|                      | 3/5/2013   | 5.80      | <1.00   | <1.00   | 00.1≥             | <2.08              | <1.00         | (0)1>       | SN       | NS        | 1.81                     | 1108.20                  |
|                      | 5/28/2013  | 4.92      | <1.00   | <1.00   | VI.00             | <2.00              | 00:5          | 00.1>       | NS       | NS        | 1.90                     | 11.08.11                 |
|                      | 9/9.2013   | 6.87      | <1.00   | <1.00   | 96°1>             | <2.08              | 21.00         | <1.00       | NS       | SN        | 2.70                     | 1107.31                  |
|                      | 12/2/2013  | 5.58      | <1.00   | <1.00   | 00.               | <2.00              | <1.00         | <1.00       | NS       | NS        | 7.34                     | 1107.67                  |
|                      | 3.25/2014  | <2.00     | 4.02    | <2.00   | €2:00             | 00°#>              | <2.00         | <2.00       | NS       | NS        | 1.70                     | 11.08.31                 |
|                      | £11/2014   | <1.00     | <1.00   | 00.1>   | <1.00             | <2.00              | <1.00         | <1.00       | NS       | NS        | 2.20                     | 1107.81                  |
|                      | 9/24/2014  | 4.06      | <1.00   | <1.00   | <1.00             | 00.5<br> <br>      | <b>€</b> 0.1> | ×1.0a       | NS       | SN        | 3.00                     | 1107.011                 |
|                      | 12/17/2014 | 19.       | <1.00   | 8.<br>V | 00.1≥             | 27.00              | VI.00         | <1.00       | SN       | NS        | 1.04                     | 1108.97                  |
|                      | 3/31/2015  | 4.13      | <1.00   | <1.90   | <1.00             | 0.00               | ₹<br>7.0€     | 96.1>       | NS       | NS        | 0.80                     | 11:09:21                 |
|                      | 5:4/2015   | SN        | NS      | SZ      | SS                | SZ                 | NS            | SN          | NS       | NS        | NG                       | NG                       |
|                      | 5:26:2015  | 3.85      | <1.00   | 06.12   | >1,00             | <2.00              | <1.00         | 00.1>       | <1.00    | <1.00     | 3.00                     | 10.8011                  |
|                      | 9.14.2015  | 4.98      | <1.00   | <1.00   | <1.00             | <2.00              | <1.00         | <1.00       | <1.00    | <1.00     | 3.23                     | 1106.78                  |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                      |            |       |           |          |        | Compound           | pur    |              |                   |         |           |             |
|----------------------|------------|-------|-----------|----------|--------|--------------------|--------|--------------|-------------------|---------|-----------|-------------|
| Disconnection (Miss) | ţ          | ATRE  | Represent | Tolivene | Ethyl- | Xylenes<br>(Total) | Спявле | Nanhthalane  | 13 & TMB          | 124TAIR |           | •           |
| PADEP UARSHS         | Date       | 20    | S         | 1,000    | 700    | 10,000             | 840    | 100          | 13                | 15      | Depth-to- | Groundwater |
| MW-12                | 3/17/2010  | SX    | SN        | NS       | SZ     | SN                 | SNS    | SZ           | SX                | SX      | ŊĊ        | NG          |
|                      | 6/7/2010   | SX    | SN        | NS       | SN     | SN                 | SN     | SN           | SN                | SN      | SN.       | NG          |
|                      | 8/31/2010  | SN    | SN        | SN       | SZ     | SN                 | SN     | SZ           | SX                | SN      | ON.       | 9N          |
|                      | 11/17/2010 | 30.3  | <1.00     | <1.90    | <1.00  | <3.00              | <1.00  | <2.00        | NS                | NS      | 3.28      | 1109.63     |
|                      | 3/2/2011   | SN    | SN        | SN       | SN     | NS                 | NS     | SN           | SN                | NS      | NG        | NG          |
|                      | 5/31/2011  | NS    | SN        | NS       | SN     | SN:                | NS     | SN           | NS                | SN      | NG        | NG          |
|                      | 8/24/2011  | SN    | SZ        | SZ       | SZ.    | SN                 | SN     | SN           | SN                | NS      | NG        | NG          |
|                      | 3/28/2012  | SN    | SZ        | SN       |        | NS                 | SN.    |              | NS                | NS      | NG        | NG          |
|                      |            |       |           | Well     | 1 -1   | ا <i>،</i> `ا      | 틹      | of quarterly | sampling program. |         |           |             |
|                      | 9/14/2015  | <1.00 | <1.00     | <1.00    | >1.00  | <2.00              | <1.00  |              | <1.00             | <1.00   | 5.32      | 1107.59     |
| MW-14                | 3/17/2010  | 23.9  | <1.00     | <1.00    | 00.1>  | €3.00              | <1.00  | <2.00        | ŠN                | NS      | 1.97      | 1114.16     |
|                      | 6.7/2010   | 18.7  | <1.00     | 00.1>    | 20.1   | <3.00              | <1.00  | 00.5>        | NS                | NS      | 2.22      | 1113.91     |
|                      | 8/31/2010  | 35.4  | <1.00     | 00.1>    | <1.00  | <3.00              | <1.00  | 00.5>        | NS                | NS      | 4,43      | 1111.70     |
|                      | 11/17/2010 | 21.3  | <1.00     | 00.15    | 00.1≥  | <3.00              | <1.00  | 00.5>        | SN                | SN      | 3.40      | 1112.73     |
|                      | 3/2/2011   | 2.2   | <1.00     | <1.00    | <1.00  | <3.00              | <1.60  | 00.5>        | NS                | NS      | 1.62      | 1114.51     |
|                      | 5/31/2011  | 21.4  | <1.00     | <1.00    | <1.00  | <3.00              | <1.00  | <2.00        | SN                | NS      | 3.44      | 1112.69     |
|                      | 8/24/2011  | 17.6  | <1.00     | <1.00    | <1.00  | <3.00              | <1.80  | <2.00        | NS                | NS      | 4.80      | 1111.33     |
|                      | 3/28/2012  | <1.00 | >1.00     | <1.00    | <1.00  | <3.00              | <1.00  | 00.5>        | NS                | SN      | 2.71      | 1113.42     |
|                      | 2102/32/9  | 8.80  | 00.1>     | <1.00    | <1.00  | 00°C>              | <1.00  | <1.00        | NS                | NS      | 3,59      | 1112.54     |
|                      | 9/6/2012   | 19.8  | <1.00     | <1.00    | 00'1>  | 00.5>              | <1.00  | <1.00        | NS                | NS      | 4.63      | 1111.50     |
|                      | 12/14/2012 | <1.00 | <1.08     | <1.00    | 0015   | 007>               | <1.00  | 00.1>        | NS                | NS      | 6.89      | 1109.24     |
|                      | 3/5/2013   | <1.00 | <1.00     | <1.00    | <1.00  | <2.00              | [6]    | <1.00        | NS                | SN      | 7,14      | 1108.99     |
|                      | 5/28/2013  | 1.38  | <1.06     | <1.00    | <1.00  | <2.00              | <1.00  | <1.00        | NS                | NS      | 4.80      | 1111.33     |
|                      | 9/9/2013   | 3.30  | -4i.0€    | <1.00)   | <1.00  | <2.00              | <1.00  | <1.00        | NS                | NS      | 6.30      | 1109.83     |
|                      | 12/2/2013  | 1.52  | <1.00     | <1.00    | <1.00  | <2.00              | <1.00  | <1.00        | NS                | NS      | 6.00      | 1110.13     |
|                      | 3/25/2014  | 001>  | <1.00     | <1.00    | <1.00  | <2.60              | <1.00  | <1.00        | NS                | NS      | 6.40      | 1109.73     |
|                      | 6/13/2014  | 1.45  | (<1.00    | <1.00    | <1.00  | <2.00              | <1,00  | <1.00        | NS                | NS      | 6.16      | 1109.97     |
|                      | 9/24/2014  | 1.02  | <1.00     | <1.00    | <1.60  | <2.00              | <1.00  | <1.00        | NS                | NS      | 7.26      | 1108.87     |
|                      | 12/17/2014 | 00°1> | <1.00     | <1.00    | <1.00  | <2.00              | <1.00  | <1.00        | NS                | NS      | 1.66      | 1114.47     |
|                      | 3/31/2015  | 00.1> | <1.00     | <1.00    | <1.00  | <2.00              | <1.00  | <1.00        | NS                | NS      | 1.50      | 1114.63     |
|                      | 5/4/2015   | SN    | NS        | NS       | NS     | SS                 | NS     | NS           | NS                | NS      | DN        | NG          |
|                      | 5/26/2015  | 1.37  | <1.80     | <1.00    | <1.00  | <2.00              | <1.00  | <1.00        | <1.00             | <1.00   | 5.74      | 1110.39     |
|                      | 9/14/2015  | 1.85  | <1.00     | <1.00    | 00.1×  | 00.5               | <1.00  | <1.00        | <1.00             | <7.00   | 6.60      | 1109.53     |
|                      |            |       |           |          |        |                    |        |              |                   |         |           |             |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

| Machipalene   1.3.5-TMB   1.2,4-TMB   1.                                                                                                                                                              |                      |            |       |                 |        |        | Cempound        | nnd    | _           |         |            |                      |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------|-------|-----------------|--------|--------|-----------------|--------|-------------|---------|------------|----------------------|--------------------------|
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Piezometer/Well      | Date       | MTRE  | Benzene         | Тошеле | Ethyl- | Xylenes (Total) | Cumene | Nanhthalana | 135.TWB | 1 2 4. TAR |                      |                          |
| §3.8.2010         6.2         <1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PADEP UARSHS<br>MSCs |            | 30    | NO.             | 1,000  | 200    | 10,000          | 840    | 100         | 13      | 15         | Depth-to-Groundwater | Groundwater<br>Elevation |
| 6.8         <   1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MW-15                | 3/18/1010  | 6.2   | <1.00           | <1.00  | <1.00  | <3.80           | <1.00  | 00.5>       | SN      | SN         | 1.73                 | L                        |
| 7.0         < 1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 6/7/2010   | 6.8   | N<br>  N<br>  N | <1.00  | <1.00  | <3.00           | <1.00  | <2.00       | NS      | NS         | 2.08                 | 1112.68                  |
| 6.3         <   1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      | 8/31/2010  | 7.0   | >1.00           | <1.00  | <1.00  | <3.00           | <1.00  | <2.00       | NS      | SN         | 3.88                 | 1110.88                  |
| 4.8         <1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      | 11/17/2010 | 6.3   | <1.00           | <00    | <1.00  | <3.00           | 00' [> | <2.00       | NS      | NS         | 7.5                  | 1111.32                  |
| NS         NS<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 3/2/2011   | 8.4   | <1.00           | <1.00  | <1.00  | <3.00           | <1.00  | <2.00       | NS      | NS         | 15.1                 | 1113.25                  |
| 6.6         <   1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      | 5/31/2011  | SS    | N N             | NS.    | N.S    | SN              | SN     | SN          | SZ      | NS         | ÜŻ                   | 9N                       |
| NS         NS<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 8/24/2011  | 9.9   | <1.00           | <2.00  | <1.00  | <3.00           | <1.00  |             | 52.     | NS         | 3.27                 | 951111                   |
| 6.98         <   100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      | 3/28/2012  | SN    | NS              | SN     | NS     | NS              | SN     | SN          | SZ.     | SN         | 2.20                 | 1112.56                  |
| 5.64         <   100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      | 6/25/2012  | 6.98  | 00.1>           | <1.00  | <1.00  | <2.00           | <1,06  | <1.00       | 52      | NS         | 3.13                 | 1111.65                  |
| 2.23         <1,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 9/6/2013   | 5.64  | <1.00           | 00°;>  | <1.00  | <2.00           | <1.00  | <1.00       | NS      | SK         | 81.4                 | 1110.58                  |
| 1.70         <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 12/14/2012 | 2.23  | <1.00           | <1.00  | <1.00  | <2.80           | <1.00  | <1.00       | SN      | NS         | 575                  | 1109.31                  |
| 1.09   \$\leq 1.00   \$\leq 1.0 |                      | 3/5/2013   | 1.70  | <1.00           | 00.1>  | <1.00  | <2.00           | <1.00  | <1.00       | NS      | SN         | 267                  | 1109.79                  |
| 1.76   <1.00   <1.00   <1.00   <2.00   <1.00   <1.00   NS   NS   NS   NS   NS   NS   NS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      | 5:28:2013  | 1.09  | <1.00           | <.00.1 | <1.00  | <2.90           | <1.00  | <1.00       | SZ      | NS         | 430                  | 94-0111                  |
| 1.76         <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 9/9/2013   | <1.00 | <1.00           | %;.v   | 21.00  | <2.00           | <1.00  | 00'1>       | SN      | SN         | 15.8                 | \$2,601;                 |
| 130   \$\limits_{1.00}   \$\li                                            |                      | 12/2/2013  | 1.76  | 00.1∨           | <1.00  | √1,0j  | <2.00           | <1.00  | <1.00       | NS      | SN         | 25'5                 | 1109.24                  |
| <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | 3/25/2014  | 1.30  | <1.00           | <[:0]  | <1.00  | <2.80           | <1.00  | <1.00       | NS      | SX         | 91.8                 | 1109.60                  |
| <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | 6/11/2014  | <1.00 | <1.00           | #0°;>  | <1.00  | <2.90           | <1.00  | <1.00       | NS.     | NS         | \$9.5                | 11.09.11                 |
| 1.69         <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 9/24/2014  | <1.00 | <1.00           | <1.00  | <1.00  | <2.00           | <1.00  | <1.00       | NS      | SN         | \$1.9                | 1108.61                  |
| 1.59         <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 12/17/2014 | 1.69  | >1.00           | <1.00  | <1.00  | <2.00           | <1.00  | <1.00       | NS      | NS         | 3.30                 | 1111.46                  |
| NS         NS<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 3.3172015  | 1.59  | <1.00           | 90.15  | <1.00  | <2.00           | <1.00  | <1.00       | NS      | SX         | 5£.£                 | 1112.41                  |
| 1.69         <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      | 5/4/2015   | NS    | NS              | NS     | SN     | SN              | SN     | SN          | ŠN      | SN         | DN                   | 92                       |
| <b>1.39</b> <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      | 5/26/2015  | 1.69  | <1.00           | 00'!>  | <1.00  | <2.00           | <1.00  |             | <1.00   | <1.00      | 4.85                 | 16'6011                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | 9/14/2015  | 1.39  | D0.1>           | <1.00  | <1.00  | <2.90           | <1,00  | <1.00       | <1.00   | > 1.00     | 11.9                 | 1108.65                  |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                      |            |       |         |         |                   | Compound           | pun                   |             |           |           |                          |                          |
|----------------------|------------|-------|---------|---------|-------------------|--------------------|-----------------------|-------------|-----------|-----------|--------------------------|--------------------------|
| Piezometer/Well      | Date       | MTBE  | Benzene | Toluene | Ethyl-<br>benzene | Xylenes<br>(Total) | Cumene                | Naphthalene | 1.3.5-TWB | 1.2,4-TMB |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20    | w       | 1,060   | 700               | 10,000             | 048                   | 100         | 13        | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-17                | 3/18/2010  | 9.0   | ×1.60   | 00.1>   | 0.17              | <3.00              | <1.00                 | 00.2>       | SN        | NS        | 0.73                     | Not Surveyed             |
|                      | 6/7/2010   | 13    | <1.00   | 80.12   | 00.1∧             | \$.00<br>≤3.00     | 00:1>                 | <2.00       | SZ        | NS        | 60.0                     | Not Surveyed             |
|                      | 8:31/2010  | 13.0  | <1.00   | <1.00   | <1.00             | <3.00              | <1.00                 | <2.00       | NS        | SN        | 1.78                     | Not Surveyed             |
|                      | 11/17/2010 | 11.2  | <1.00   | <1.00   | <1.00             | <3.00              | 00";>                 | <2.00       | SN        | SN        | 1.70                     | Not Surveyed             |
|                      | 11102/1/8  | 7.4   | <1.00   | 00°1>   | <1.00             | <3.00              | 00'\>                 | <2.00       | NS        | SN        | 0.11                     | Not Surveyed             |
|                      | 1107/12    | SN    | SN      | SN      | SN                | SN                 | SN                    | SN          | SN        | NS        | NG                       | Not Surreyed             |
| •                    | 8:24:2011  | SN    | SN      | SN      | SN                | SN                 | SX                    | SN          | SN        | SZ        | NG                       | Not Surveyed             |
|                      | 3/28/2012  | NS    | NS      | NS      | NS                | NS                 | NS                    | NS          | NS        | NS        | NG                       | Not Surveyed             |
|                      |            |       |         | •       |                   | Well               | could not be located. | located.    |           |           |                          |                          |
| VIW-21               | 3/17/2010  | 41.3  | <1.00   | <1.00   | <1.00             | <3.00              | <1.00                 | <2.00       | NS        | NS        | 1.86                     | 1112.07                  |
|                      | 01/2010    | 42.2  | <1.00   | 001>    | <1.00             | <3.00              | <1.00                 | <2.00       | SN        | SN        | 2.12                     | 1111.81                  |
|                      | 8/30/2010  | 40.0  | <1.00   | <1 00   | <:.00             | <3.00              | <1.00                 | <2.06       | NS        | SN        | 3,43                     | 1110.50                  |
|                      | 11/17/2010 | 35.9  | <1.00   | 001>    | <1.00             | <3.00              | <1.00                 | <2.00       | SN.       | SN        | 3.22                     | 1110,71                  |
|                      | 3/2/2011   | 33.9  | <1.00   | 00.1>   | <1.00             | <3.00              | <1.00                 | <2.00       | NS        | SN        | 1.50                     | 1112.43                  |
|                      | 5/31/2011  | NS    | NS      | SN      | NS                | NS                 | NS                    | NŠ          | NS        | NS        | NG                       | NG                       |
|                      | 8/24/2011  | 37.5  | <1.00   | <1.00   | <1.00             | <3.00              | <1.00                 | <2.00       | NS        | SZ        | 3.05                     | 1110.88                  |
|                      | 3/28/2012  | SN    | NS      | SN      | NS.               | NS                 | NS                    | SN          | NS        | NS        | 2.10                     | 1111.83                  |
|                      | 6/25/2012  | 21.7  | <1.00   | <: 00   | <1.00             | ₩.                 | <1.00                 | <1.00       | NS        | NS        | 3,94                     | 1110.99                  |
|                      | 9:6/2012   | 42.1  | <2.00   | <2.00   | <2.00             | <4.00              | <2.00                 | <2.00       | SN        | NS        | 3.79                     | 1110.14                  |
|                      | 12/14/2012 | 10.8  | <1.00   | 00'!>   | <1.00             | <2.00              | <1.00                 | <1.00       | ŠN        | SNS       | 5.09                     | 1108.84                  |
|                      | 3/5/2013   | 12.7  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00                 | <1.00       | NS        | SN        | 4.61                     | 1109.32                  |
|                      | 5/28/2013  | 9.92  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00                 | <1.00       | NS        | NS        | 3.97                     | 1109.96                  |
|                      | 9:9/2013   | 31.2  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00                 | <1.00       | NS        | NS        | 4.90                     | 1109.03                  |
|                      | 12/2/2013  | 2.24  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00                 | <1.00       | NS        | NS        | 4.80                     | 1109.13                  |
|                      | 3.25/2014  | 1.71  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00                 | <1.00       | NS        | SN        | 4.50                     | 1109.43                  |
|                      | 6/11/2014  | 4.35  | <1.00   | <1.00   | 0.1≥              | 27.00              | <1.00                 | <1.00       | NS        | SN        | 4.90                     | 1109.03                  |
|                      | 9/24/2014  | 8.24  | <1.00   | <1.90   | √1.80             | 80.<br>V           | <1.00                 | <1.00       | NS        | NS        | 5.44                     | 1108.49                  |
|                      | 12/17/2014 | <1.00 | <1.00   | <1.00   | <1.00             | <2.00              | <1.00                 | <1.00       | NS        | NS        | 3.16                     | 1110.77                  |
|                      | 3/31/2015  | <1.00 | <1.00   | <1.00   | <1.00             | <2.00              | <1.00                 | <1.00       | NS        | NS        | 2.29                     | 1111.64                  |
|                      | 5/4/2015   | NS    | NS      | NS      | NS                | NS                 | NS                    | SN          | NS        | NS        | NG                       | NG                       |
|                      | 5/26/2015  | <1.00 | <1.00   | <1.00   | <1.00             | 2:00               | <1.00                 | <1.00       | <1.00     | <1.00     | 4.16                     | 1109.77                  |
|                      | 9/14/2015  | 8.11  | <1.00   | <1.90   | 00.1>             | 80.0               | <1.00                 | <1,00       | <1.00     | <1.08     | 5.32                     | 1108.61                  |

#### Table 2 Historic Groundwater Gauging and Analytical Data Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830

|                      |            | Compound |         |         |                                                                                                                             |                    |               |                   |                 |                                       |                          |                          |
|----------------------|------------|----------|---------|---------|-----------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|-------------------|-----------------|---------------------------------------|--------------------------|--------------------------|
| Piezometer/Well      | Date       | MTBE     | Benzene | Toluene | Ethyl-<br>benzene                                                                                                           | Xylenes<br>(Total) | Comene        | Naphthalene       | 1,3,5-TMB       | 1,2,4-TMB                             |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20       | 5       | 1.000   | 700                                                                                                                         | 10,000             | 840           | 100               | 13              | 15                                    | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-22                | 3/17/2010  | 5.8      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <).00         | <2.00             | NS              | NS                                    | 1.79                     | 1110.57                  |
|                      | 6 7/2010   | 8.4      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 2.18                     | 1110.18                  |
|                      | 8/30/2010  | 8.6      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | < 1.00        | <2.00             | NS              | NS                                    | 3.60                     | 1108.76                  |
|                      | 11 17/2010 | 6.7      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 3.38                     | 1108.98                  |
|                      | 3/2/2011   | 6.0      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 1.42                     | 1110.94                  |
|                      | 5/31/2011  | NS       | NS      | NS      | NS                                                                                                                          | NS                 | NS.           | NS                | NS              | NS                                    | NG                       | NG                       |
|                      | 8/24/2011  | 10.5     | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 3.04                     | 1109.32                  |
|                      | 3/28/2012  | NS       | NS      | NS      | NS                                                                                                                          | NS                 | NS            | NS                | NS              | NS                                    | 2.11                     | 1110.25                  |
|                      |            |          |         |         |                                                                                                                             | ell not part       |               | ampling progra    | in.             |                                       |                          |                          |
| MW-23                | 3/17/2010  | <1.00    | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | < 2.00            | NS              | NS                                    | 2.51                     | 1112.10                  |
|                      | 6/7/2010   | <1.00    | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 2.03                     | 1112.58                  |
|                      | 8/31/2010  | <1.00    | <1.00   | <1.00   | <1.00                                                                                                                       | < 3.00             | <1.00         | <2.00             | N5              | NS                                    | 4.63                     | 1109.98                  |
|                      | 11/17/2010 | < 1.00   | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.60         | <2.00             | NS_             | NS                                    | 3.90                     | 1110.71                  |
|                      | 3/2/2011   | <3.00    | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS.             | NS                                    | 2.02                     | 1112.59                  |
|                      | 5/31/2011  | NS       | NS      | NS      | NS                                                                                                                          | NS                 | NS            | NS .              | NS              | NS.                                   | NG                       | NG                       |
|                      | 8/24/2011  | <1.00    | <1.00   | <1.00   | <i.00< td=""><td>&lt;3.00</td><td>&lt;1.00</td><td>&lt;2.00</td><td>55</td><td>NS</td><td>3.93</td><td>1110,68</td></i.00<> | <3.00              | <1.00         | <2.00             | 55              | NS                                    | 3.93                     | 1110,68                  |
|                      | 3/28/2012  | NS       | NS      | NS      | NS                                                                                                                          | NS                 | NS            | NS                | NS              | NS                                    | 2.80                     | 1111.81                  |
|                      | -          |          |         |         |                                                                                                                             | ell not part       | of quarterly: | ampling progra    |                 | · · · · · · · · · · · · · · · · · · · |                          |                          |
| MW-28                | 3/17/2010  | 4.5      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 3,13                     | [113.61                  |
|                      | 6/8/2010   | 3.4      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 3,44                     | 1113,30                  |
|                      | 8/30/2010  | 6.4      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 5.64                     | [111.10                  |
|                      | 11/17/2010 | 4.1      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.60              | <1.00         | <2.00             | NS              | NS                                    | 4,46                     | 1112.28                  |
|                      | 3/1/2011   | 7.6      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <1.00         | <2.00             | NS              | NS                                    | 3.01                     | 1113.73                  |
|                      | 5/31/2011  | 3.4      | NA      | NA      | NA NA                                                                                                                       | N.A.               | NA            | NA                | NS              | NS                                    | 4.82                     | 1111.92                  |
|                      | 8/24/2011  | 4.9      | <1.00   | <1.00   | <1.00                                                                                                                       | <3.00              | <0.00         | <2.00             | NS              | NS                                    | 4.97                     | 1111.77                  |
|                      | 3/28/2012  | 14.6     | NA      | NA      | NA                                                                                                                          | NA                 | NA            | NA                | NS              | NS                                    | 2.88                     | 1113.86                  |
|                      | 6/25/2012  |          |         |         |                                                                                                                             | Monitoring         | well convert  | ed to remedial er | xtraction well. |                                       |                          |                          |
|                      | 12/17/2014 | <1.00    | <1.00   | <1.00   | <1.00                                                                                                                       | <2.00              | <1.00         | <1.00             | NS              | NS                                    | 3.97                     | 1112.77                  |
|                      | 3/31/2015  | <1.00    | 56.4    | 244     | 13.4                                                                                                                        | 196                | <1.00         | 2.69              | NS              | NS                                    | 3.24                     | 1113.50                  |
|                      | 5/4/2015   | 2.55     | 42.0    | 5.10    | 12.9                                                                                                                        | 44.6               | 1.58          | 4,34              | 5.76            | 18.9                                  | 4,11                     | 1112.63                  |
|                      | 5/26/2015  | 4.13     | <1.00   | <1.00   | 2.53                                                                                                                        | 13.2               | < ].(0)       | 1.32              | 2.35            | 3.83                                  | 6.85                     | 1109.89                  |
|                      | 9/14/2015  | <5.00    | <5.00   | <5.00   | <5.00                                                                                                                       | <10.0              | <5.00         | <5.00             | <5.00           | <5,00                                 | 6.88                     | 1109,86                  |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                   |            |       |         |         |         | Compound | und     |             |           |            |                          |           |
|-------------------|------------|-------|---------|---------|---------|----------|---------|-------------|-----------|------------|--------------------------|-----------|
| ;                 |            |       |         |         | Ethyl-  | Xylenes  | (       | :           |           |            |                          |           |
| Piezometer/Well   | Date       | MIBE  | Benzene | Loluene | benzene | (Total)  | Сишеле  | Naphthalene | 1,3,5-TMB | 1,2,4-1 MB | 3                        | ,         |
| PADEP LARSHS MSCs |            | 20    | 5       | 1,000   | 700     | 10,000   | 840     | 100         | 13        | 15         | Depth-10-<br>Groundwater | Glevation |
| MW-29             | 3/17/2010  | 35.0  | 00:1>   | <1.00   | <1.00   | <3.00    | <1.00   | <2.00       | NS        | NS         | 2.61                     | 1112.04   |
|                   | 6/7/2010   | 39.7  | <1.00   | <1.00   | <1.00   | <3.00    | <1.00   | <2.00       | NS        | NS         | 2.83                     | 1131.82   |
|                   | 8/30/2010  | 39.0  | 00'1>   | <1.00   | 00"1>   | <3.00    | 0071>   | <2.00       | SN        | SN         | 4.95                     | 1109,70   |
|                   | 11/17/2010 | 37.6  | 00'1>   | <1.00   | <1.00   | <3.00    | <1.00   | <2.00       | NS        | NS         | 3.95                     | 1130.70   |
|                   | 3/2/2011   | 8.6   | <1.00   | 00.1>   | <1:00   | <3.00    | <1.00   | <2.00       | NS        | SN         | 2.23                     | 1112.42   |
|                   | 1102/15/5  | NS    | NS      | SN      | NS      | NS.      | SN      | NS          | NS        | NS         | NG                       | ŊĊ        |
|                   | 1107/17/28 | 37.1  | <1.00   | <1.00   | <1.00   | <3.00    | OG* [ > | <2.00       | SN        | SN         | 3.81                     | 1110.84   |
|                   | 3/28/2012  | SN    | SN      | SN      | SX      | S.X      | SN      | SN          | NS        | SN         | 2.71                     | 1111.94   |
|                   | 6/25/2012  | 22.8  | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | NS        | NS         | 3.58                     | 1111.07   |
|                   | 2102/9/6   | 25.0  | <1.00   | <1.00   | <1.00   | <2.00    | 00'1>   | <1.00       | NS        | SN         | 4.58                     | 1110.07   |
|                   | 2102/41/21 | 3.13  | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | SN        | SN         | 5.77                     | 1108.88   |
|                   | 3/5/2013   | <1.00 | 00.1>   | <: 00   | <1.00   | <2.00    | <1.60   | <1.00       | NS        | NS         | 5.36                     | 1109.29   |
|                   | 5/28/2013  | <1.00 | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | NS        | NS         | 4.70                     | 1109.95   |
|                   | 9/9/2013   | 1.39  | <1.00   | <1.00   | <1.00   | €2.00    | <1.00   | <1.00       | N.S       | SN         | 5.65                     | 11:09:00  |
|                   | 12/2/2013  | 11.0  | <1.00   | <1.00   | <1.00   | 00.5     | <1.00   | <1.00       | NS        | NS         | 5.47                     | 1109.18   |
|                   | 3/25/2014  | 4.06  | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | NS        | NS         | 5.25                     | 1109.40   |
|                   | 6/11/2014  | 5.47  | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | NS        | NS         | 5.65                     | 1109.00   |
|                   | 9/24/2014  | 2.20  | 00.1>   | 00'1>   | <1.00   | <2.00    | <1.00   | <1.00       | NS        | SN         | 6.17                     | 1108,48   |
|                   | 12/17/2014 | 9.76  | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | NS        | NS         | 3.92                     | 1119.73   |
|                   | 3/31/2015  | 2.73  | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | NS        | NS         | 3.03                     | 1111.62   |
|                   | 5/4/2015   | NS    | NS      | SN      | SN      | N.S      | SN      | NS          | NS        | NS         | NG                       | NG        |
|                   | 5/26/2015  | <1,00 | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | <1.00     | <1.00      | 4.90                     | 1109.75   |
|                   | 9/14/2015  | 3.41  | <1.00   | <1.00   | <1.00   | <2.00    | <1.00   | <1.00       | <1.00     | <1.00      | 6.05                     | 1108.60   |
| ,                 |            |       |         |         |         |          |         |             |           |            |                          |           |

#### Table 2 Historic Groundwater Gauging and Analytical Data Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830

|                      |            |       |         |         |                   | Compo              | und    |             |           | _         |                          | 1                        |
|----------------------|------------|-------|---------|---------|-------------------|--------------------|--------|-------------|-----------|-----------|--------------------------|--------------------------|
| Piezometer/Well      | Date       | MTBE  | Benzene | Toluene | Ethyl-<br>henzene | Xylenes<br>(Total) | Cumene | Naphthalene | 1,3,5-TMB | 1.2,4-TMB |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20    | 5       | 1,000   | 700               | 10,000             | 840    | 100         | 13        | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-30                | 3/18/2010  | 17.0  | 23.9    | <1.00   | 14.5              | 12.2               | 1.9    | 2.5         | NS        | NS        | 2.23                     | 1112.55                  |
| i                    | 6/7/2010   | 20.1  | 17.9    | <1.00   | 12.4              | 10.5               | 1.9    | <2.00       | NS        | NS        | 2.41                     | 1112.37                  |
|                      | 8/31/2010  | 22.7  | <1.00   | <1.00   | 3.1               | <3.00              | <1.(0) | <2.00       | NS        | NS        | 4.07                     | 3410.71                  |
|                      | 11/17/2010 | 25.9  | <1.00   | <1.00   | 1.8               | <3,00              | <1.00  | <2.00       | NS        | NS        | 3.61                     | 1111.17                  |
|                      | 3/2/2011   | 22.7  | <1.00   | <1.00   | <1.00             | <3.00              | <1.00  | <2.00       | NS        | NS        | 2.35                     | 1112.43                  |
|                      | 5/31/2011  | NS    | N'S     | NS      | NS                | NS                 | NS     | NS          | NS        | NS        | NG                       | NG                       |
|                      | 8/24/2011  | NS    | NS      | NS      | NS                | NS                 | NS     | NS          | NS        | NS        | NG                       | NG                       |
|                      | 3/28/2012  | NS_   | NS      | NS      | NS                | NS                 | NS     | NS          | NS        | NS        | NG                       | NG                       |
|                      | 6/25/2012  | 8.41  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00  | <1.00       | NS        | NS        | 3.31                     | 1111.47                  |
|                      | 9/6/2012   | 10.8  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00  | <1.00       | NS        | NS        | 4.30                     | 1110.48                  |
|                      | 12/14/2012 | 4.08  | <2.00   | <2.00   | <2.00             | <4.00              | <2.00  | <2.00       | NS        | NS        | 5.91                     | 1108.87                  |
|                      | 3/5/2013   | 6.13  | 1.80    | <1.00   | <1.00             | <2.00              | <1.00  | <1.00       | NS        | NS        | 5.50                     | 1109.28                  |
|                      | 5/28/2013  | 6.56  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00  | <0.1>       | NS        | NS        | 4.51                     | 1110.27                  |
|                      | 9/9/2013   | 6.28  | <1.00   | <1,00   | <1.00             | <2.00              | <1.00  | <0.1>       | NS        | NS        | 5.68                     | 1109.10                  |
|                      | 12/2/2013  | 13.5  | <1.00   | <1.00   | <1.00             | <2.00              | <1.00  | <1.00       | NS        | NS        | 5.74                     | 1109.04                  |
|                      | 3/25/2014  | 7.18  | <2.00   | <2.00   | <2.00             | <4.00              | <2.00  | <2.00       | NS        | NS        | 5.39                     | 1109.39                  |
|                      | 6/11/2014  | 3.10  | <1.00   | <0.6.1> | <1.00             | <2.00              | <1.00  | <1.00       | NS        | NS        | 5.84                     | 1108.94                  |
|                      | 9/24/2014  | 8.54  | <1.00   | <1.60   | <1.00             | <2.00              | <0.00  | <1.00       | NS        | NS        | 6.40                     | 1108.38                  |
|                      | 12/17/2014 | 5.38  | <1.00   | <1.00   | <1.00             | < 2.00             | <0.00  | <1.00       | NS        | NS        | 3.55                     | 1111.23                  |
|                      | 3/31/2015  | <2.00 | 3.18    | <2.00   | <2.00             | <4.00              | <2.00  | <2.00       | NS        | NS        | 2.58                     | 1112.20                  |
|                      | 5/4/2015   | NS    | NS      | NS      | NS                | NS                 | NS     | VS          | NS        | NS        | NG                       | NG                       |
|                      | 5/26/2015  | 5.50  | 17.9    | <1.00   | <1.00             | <2.00              | <[.00] | <1.00       | <1.00     | 22.9      | 5.00                     | 1109.78                  |
|                      | 9/14/2015  | 4,96  | <1.00   | <1.00   | <1.00             | <2.00              | <00.1> | <1.00       | <1.00     | <1.00     | 6.18                     | 1108.60                  |

#### Table 2 Historic Groundwater Gauging and Analytical Data Kwik Fill M-90 1322 South 2nd Street Clearfield, PA 16830

|                      |            |       |         |         |         | Compo      | ound          |                   |           |           |                          | 1                        |
|----------------------|------------|-------|---------|---------|---------|------------|---------------|-------------------|-----------|-----------|--------------------------|--------------------------|
|                      |            |       |         |         | Ethyl-  | Xylenes    |               |                   |           |           | 1                        |                          |
| Piezometer/Well      | Date       | MTBE  | Benzene | Toluene | benzene | (Total)    | Cumene        | Naphthalene       | 1,3,5-TMB | 1,2,4-TMB | J                        |                          |
| PADEP UARSHS<br>MSCs | -          | 20    | 5       | 1,000   | 706     | 10,000     | 840           | 100               | 13        | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-31                | 3/17/2010  | 7.8   | 668     | 783     | 265     | 2,700      | 26.4          | 119               | NS        | NS        | 3.16                     | 1113.86                  |
|                      | 6/8/2010   | 6.3   | 336     | 118     | 119     | 754        | 10.2          | 61.8              | NS        | NS        | 3.61                     | 1113.41                  |
|                      | 8/30/2010  | 8.0   | 18.8    | 1.1     | 10.5    | 34.1       | 1.3           | 3.3               | NS        | NS        | 5.73                     | 1111.29                  |
|                      | 11/17/2010 | 6.7   | 60.5    | <1.00   | 20.6    | 20.4       | 1.8           | 4.3               | NS        | NS        | 4.73                     | 1112.29                  |
|                      | 3/1/2011   | 4.8   | 9.2     | 1.4     | 3.6     | 4.1        | <1.00         | <2.00             | NS        | NS        | 3.48                     | 1113.54                  |
|                      | 5/31/2011  | 6.3   | 66.1    | <1.00   | 20.0    | 22.1       | 2.3           | 2.1               | NS        | NS        | 4.74                     | 1112.28                  |
|                      | 8/24/2011  | 14.3  | 439     | 7.2     | 135     | 272        | 12            | 35.7              | NS        | NS        | 5.03                     | 1111.99                  |
|                      | 3/28/2012  | 16.2  | <1.00   | <1.00   | <1.00   | <3.00      | <1.00         | <2.00             | NS        | NS        | 3.18                     | 1113,84                  |
|                      | 6/25/2012  |       |         |         |         | Monitoring | well converte | ed to remedial ex |           |           |                          |                          |
|                      | 12/17/2014 | <1.00 | <1.00   | <1.00   | <1.00   | 13.6       | <1.00         | <1.00             | NS        | NS        | 4.30                     | 1112.72                  |
|                      | 3/31/2015  | 5.95  | 938     | 3,540   | 370     | 3,170      | 45.4          | 224               | NS        | NS        | 3.59                     | 1113.43                  |
|                      | 5/4/2015   | <10.0 | 157     | 71.7    | 36.8    | 422        | <10.0         | 38.4              | 48.3      | 154       | 4.43                     | 1112.59                  |
|                      | 5/26/2015  | 3.91  | 8.17    | <1.00   | 11.3    | 26.8       | 1.00          | 6.56              | 5.62      | 34.1      | 6.80                     | 1110.22                  |
|                      | 9/14/2015  | 2.18  | 17.4    | <1.00   | <1.00   | 3.68       | <1.00         | <1.00             | 1.06      | 4.60      | 7.33                     | 1109.69                  |
| MW-32                | 5/28/2010  | 4.1   | <1.00   | <1.00   | <1.00   | <3.00      | <1.00         | <2.00             | NS        | NS        | 4.22                     | 1113.03                  |
| '                    | 6/8/2010   | 2.8   | <1.00   | <1.00   | <1.00   | <3.00      | <1.00         | <2.00             | NS        | NS        | 3.21                     | 1114.04                  |
|                      | 8/30/2010  | 1.6   | <1.00   | <1.00   | <1.00   | <3.00      | <1.00         | < 2.00            | NS        | NS        | 5.16                     | 1112.09                  |
|                      | 11/17/2010 | 2.2   | <1.00   | <1.00   | <1.60   | <3.00      | <1.00         | < 2.00            | NS        | NS        | 4.64                     | 1112.61                  |
|                      | 3/1/2011   | 2.7   | <1.00   | <1.00   | <1.00   | <3.00      | <1.00         | < 2.00            | NS        | NS        | 2.94                     | 1114.31                  |
|                      | 5/31/2011  | 2.6   | <)()()  | <1.00   | <1.00   | <3.00      | <1.00         | <2.00             | NS        | NS        | 4.15                     | 1113.10                  |
|                      | 8/24/2011  | 2.8   | <1.00   | <1.00   | <1.00   | <3.00      | <1.00         | <2.00             | NS        | NS        | 4.58                     | 1112.67                  |
|                      | 3/28/2012  | <1.00 | <1.00   | <1.00   | <1.00   | <3.00      | <1.00         | <2.00             | NS_       | NS        | 2.49                     | 1114.76                  |
|                      | 6/25/2012  | 4.51  | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | N\$       | 4.51                     | 1112,74                  |
|                      | 9/6/2012   | 4.07  | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <0.00             | NS        | NS        | 5.51                     | [11].74                  |
|                      | 12/14/2012 | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 5.65                     | 1111.60                  |
|                      | 3/5/2013   | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 5.50                     | 1111.75                  |
|                      | 5/28/2013  | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 5.22                     | 1112.03                  |
|                      | 9/9/2013   | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 6.50                     | 1110.75                  |
|                      | 12/2/2013  | <1.60 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 5.80                     | 1111.45                  |
|                      | 3/25/2014  | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <00.1>            | N5        | NS        | 5.45                     | 1111.80                  |
|                      | 6/11/2014  | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 6.10                     | 1111.15                  |
|                      | 9/24/2014  | <1.00 | <1.00   | <1.09   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 6.39                     | 1110.86                  |
|                      | 12/17/2014 | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1.00             | NS        | NS        | 4.19                     | 1113.06                  |
|                      | 3/31/2015  | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.00         | <1,00             | NS        | NS        | 3.70                     | 1113.55                  |
|                      | 5/4/2015   | <1.00 | <1.00   | <:.00   | <1.00   | <2.00      | <1,00         | <1.00             | <1,00     | <1.00     | 4.45                     | 1112.80                  |
|                      | 5/26/2015  | <1.00 | <1.00   | <0.03   | <1.00   | <2.00      | <1.00         | <1.00             | <1.00     | <1,00     | 6.21                     | 1111.04                  |
|                      | 9/14/2015  | <1.00 | <1.00   | <1.00   | <1.00   | <2.00      | <1.90         | <1.00             | <1.00     | <1.00     | 6.72                     | 1110.53                  |

Table 2
Historic Groundwater Gauging and Analytical Data
Kwik Fill M-90
1322 South 2nd Street
Clearfield, PA 16830

|                      |            |                  |                                                                                                                                                                             |                                                                                             |                   | Сотроина           | pun    |             |           |           |                          |                          |
|----------------------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------|--------------------|--------|-------------|-----------|-----------|--------------------------|--------------------------|
| PiezometenWell       | Date       | MTBE             | Benzene                                                                                                                                                                     | Toluene                                                                                     | Ethyl-<br>benzene | Xylenes<br>(Total) | Cumene | Naphthalene | 1,3,5-TMB | 1.2.4-TMB |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20               | S                                                                                                                                                                           | 000'1                                                                                       | 200               | 10,000             | 840    | 100         | 13        | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-33                | 5.28/2010  | 001>             | 00'!>                                                                                                                                                                       | <1.00                                                                                       | <1.00             | <3.00              | <1.00  | <2.00       | SN        | SN        | 4.41                     | L                        |
|                      | 6/8/2010   | 00.1             | 00T>                                                                                                                                                                        | <1.00                                                                                       | <1.00             | 3.00               | <1.00  | <2.00       | SN        | SN        | 3.36                     | 1114.23                  |
|                      | 8/30/2010  | <u> </u>         | <1.00                                                                                                                                                                       | <1.80                                                                                       | <1.00             | <3.00              | <1.00  | <2.06       | SN.       | SZ        | 3.25                     | 1112.33                  |
|                      | 11/17/2010 | V 100            | <1.00                                                                                                                                                                       | <1.60                                                                                       | <1.00             | <3.00              | <1.00  | <2.00       | SN        | SN        | 4,96                     | 1113.62                  |
|                      | 3.1/2011   | 00.1≥            | <1.00                                                                                                                                                                       | <1.00                                                                                       | <1.00             | <3.00              | 00"1>  | <2.08       | SN        | SN        | 24.5                     | 1114.16                  |
|                      | 5/31/2011  | 00'1>            | <1.00                                                                                                                                                                       | <1.60                                                                                       | <1.00             | <3.00              | <1.00  | <2.00       | SN        | SN        | 438                      | 1113.20                  |
|                      | 8/24/2011  | VI.00            | <1.00                                                                                                                                                                       | <1.60                                                                                       | <1.00             | <3.00              | <1.00  | <2.06       | SN        | SN        | 4.73                     | 1112.86                  |
|                      | 3/28/2012  | 87               | <1.00)                                                                                                                                                                      | 7 (60)<br>V                                                                                 | <1.00             | <3.00              | <1.00  | 0075>       | SN        | SN        | 2.70                     | 1114.88                  |
|                      | 6/25/2012  | - 1.03<br>- 1.03 | <1.00                                                                                                                                                                       | ~1.08<br>                                                                                   | <1,00             | <2.00              | <1.00  | >1.00       | NS        | SN        | 4.66                     | 1112.92                  |
|                      | 9:6/2012   | 90 V             | <1.00                                                                                                                                                                       | 09.7                                                                                        | ©. ≥              | 0.00               | 00:1>  | <1.08       | NS        | SN        | 5.70                     | 1111.88                  |
|                      | 12/14/2012 | 98.17            | <1.00                                                                                                                                                                       | 09.1∨                                                                                       | <1.00             | 00.5               | <1.00  | 190'1>      | SN        | SN        | 55.4t                    | 1112.86                  |
|                      | 3:5/2013   | 00.1v            | <1.00                                                                                                                                                                       | <1.00                                                                                       | <1.00             | <2.00              | <1.00  | 60.1>       | SN        | SN        | 94.4                     | 1113.12                  |
|                      | 5/28/2013  | 90.1>            | <1.00                                                                                                                                                                       | Q(1)<br>  00:15                                                                             | <1.00             | <2.00              | <1.00  | 001>        | SN        | SN        | 51.4                     | 1113.43                  |
|                      | 9/9/2013   | V1.00            | <1.00                                                                                                                                                                       | <1.00                                                                                       | <1.00             | <2.00              | <1.00  | 001>        | SZ        | SN        | 0+'9                     | 111118                   |
|                      | 12:2:2013  | -<br>100<br>  ∨  | 96<br>V                                                                                                                                                                     | 29.00                                                                                       | 00°T>             | <2.00              | <1.00  | 00.1>       | SN        | SN        | 5.56                     | 1112.02                  |
|                      | 3/25/2014  | 00.1>            | <1.00                                                                                                                                                                       | Ş;<br>∀                                                                                     | <1.00             | 5,00               | <0.00  | <1.00       | NS        | SN        | 097+                     | 1112,98                  |
|                      | 6/11/2014  | 00.1^            | <1.00                                                                                                                                                                       | 06.∆                                                                                        | <1.00             | <2.00              | 00.1>  | 130.1>      | NS        | SN        | 5.32                     | 1112.26                  |
|                      | 9/24/2014  | -1:0g            | <1.00                                                                                                                                                                       | 06.1≥                                                                                       | <1.00             | <2.00              | <1.00  | <1.00       | NS        | SN        | 5.71                     | 1111.87                  |
|                      | 12:17:2014 | SN               | NS                                                                                                                                                                          | SZ                                                                                          | NS                | Si                 | NS     | SN          | NS        | SN        | 4.29                     | 1113.29                  |
|                      | 3/31/2015  | NS               | SN.                                                                                                                                                                         | NS                                                                                          | SN                | SN                 | SN.    | SN          | NS        | SÑ        | 00'7                     | 1113.58                  |
|                      | 5:4/2015   | SN               | SX                                                                                                                                                                          | S.S.                                                                                        | NS                | NS                 | NS     | NS          | SN        | SN        | 98                       | ÖN                       |
|                      | 5/26/2015  | V1.00            | V.08                                                                                                                                                                        | √1.(80)                                                                                     | 00.1≥             | 00.0               | <1.00  | 00'1>       | 00°T>     | 081>      | 5.37                     | 1112.21                  |
|                      | 9/14/2015  | <1.00            | 00.5>                                                                                                                                                                       | 00.1≥                                                                                       | <1.00             | 00.5               | <1.00  | ₩0.1>       | <1.00     | <1.00     | 679                      | 1111.09                  |
| MW-34                | 12/17/2014 | 2.94             | <1.00                                                                                                                                                                       | <1.00                                                                                       | <1.00             | <2.00              | 00'1>  | 00'1>       | SN        | SN        | 4.39                     | 1112.69                  |
|                      | 3/31/2015  | 3.69             | <1.00                                                                                                                                                                       | <1.00                                                                                       | <1.00             | <2.00              | <1.00  | 00'1>       | ŠN        | SN        | 3,65                     | 1113,43                  |
|                      | 5/4/2015   | <u>ज</u> ्       | <1.00                                                                                                                                                                       | <1.00                                                                                       | o0:1>             | <2.00              | <1.00  | 00.1>       | <1.00     | 081>      | 4.50                     | 1112.58                  |
|                      | 5/26/2015  | 1.78             | <1.00                                                                                                                                                                       | <1.00                                                                                       | <1.90             | <2.00              | <1.00  | 00.1>       | <1.00     | 00"[>     | 81.5                     | 1109.90                  |
|                      | 9/14/2015  | <1.00            | <i.00< th=""><th>OĐ:  &gt;</th><th>&lt;1.00</th><th>&lt;2.00</th><th>001&gt;</th><th>&gt;1.00</th><th>&lt;1.00</th><th>O(4) [&gt;</th><th>7.25</th><th>1109.83</th></i.00<> | OĐ:  >                                                                                      | <1.00             | <2.00              | 001>   | >1.00       | <1.00     | O(4) [>   | 7.25                     | 1109.83                  |
| MW-35                | 12/17/2014 | <1.00            | 00";>                                                                                                                                                                       | <1.00                                                                                       | <1.00             | <2.00              | 00°1>  | 00'1>       | SN        | SN        | 466                      | 1112.62                  |
|                      | 3/31/2015  | <1.00            | <00                                                                                                                                                                         | <1.00                                                                                       | <1.00             | 2.00               | 00.1>  | 00'1>       | NS        | SN        | 3.94                     | 1113.34                  |
|                      | 5/4/2015   | 1.53             | <1.00                                                                                                                                                                       | √1.00                                                                                       | o0.1>             | <2.00              | <1.00  | <1.00       | <1.00     | <1.60     | 62.4                     | 1112.49                  |
|                      | 5/26/2015  | 3.95             | <2.00                                                                                                                                                                       | ( <del>0</del> .1.9)                                                                        | <1.00             | 00.Ö               | >1.00  | 00.1>       | <1.00     | 00.1>     | 17.71                    | 1109.57                  |
|                      | 9/14/2015  | 1.90             | <1.00                                                                                                                                                                       | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | √1.00             | 00;                | 00.1>  | <1.00       | <1.00     | <1.80     | 76°£                     | 95.6011                  |
|                      |            |                  |                                                                                                                                                                             |                                                                                             | 1                 |                    |        |             |           |           |                          |                          |

Historic Groundwater Gauging and Analytical Data 1322 South 2nd Street Clearfield, PA 16830 Kwik Fill M-90 Table 2

|                      |            |      |         |         |         | Compound | nnd    |                       |           |           |                          |                          |
|----------------------|------------|------|---------|---------|---------|----------|--------|-----------------------|-----------|-----------|--------------------------|--------------------------|
|                      |            |      |         |         | -J.41)3 | Xylenes  |        |                       |           |           |                          |                          |
| Piezometer/Well      | Date       | MTBE | Benzene | Toluene | benzene | (Total)  | Cumene | Naphthalene 1,3,5-TMB | 1,3,5-TMB | 1.2.4-TMB |                          |                          |
| PADEP UARSHS<br>MSCs |            | 20   | 5       | 1,000   | 0.02    | 10.000   | 840    | 100                   | 13        | 15        | Depth-to-<br>Groundwater | Groundwater<br>Elevation |
| MW-36                | 4102/21/21 | 3.24 | 00';>   | <1.00   | <1.00   | <2.00    | <1.00  | <1.00                 | NS        | NS        | 4.08                     | 1112.60                  |
|                      | 3/31/2015  | 4.64 | <1.00   | <1.00   | 00"1>   | <2.00    | <1.00  | <1.00                 | SN        | SN        | 1.65                     | 1115.03                  |
|                      | 5/4/2015   | 4.23 | 001:>   | <1.00   | 0011>   | <2.00    | <1.00  | <1.00                 | 00.1>     | >1.00     | 4.16                     | 1112.52                  |
|                      | 5/26/2015  | 4.45 | 00"[>   | <1.00   | <1.00   | <2.00    | <1.00  | <1,00                 | <1.00     | >1.00     | 7.22                     | 1109.46                  |
|                      | 9/14/2015  | 3.93 | 00'1>   | <1.00   | <1.00   | <2.00    | <1.00  | <1.00                 | <1.00     | 00'1>     | 7.02                     | 99'6011                  |
|                      |            | ļ    |         |         |         |          |        |                       |           |           |                          |                          |

Groundwater elevation data reported in feet (ft).
Depth-to-groundwater results are reported in feet below top-of-casing (ft-btoc).

All results reported in ug/l. Bold values indicate levels above LRL.

Bold and shaded values indicate exceedance of PADEP UARSHS MSCs. NG - Not Gauged. NA - Not Analyzed. NS - Not Sampled. Well elevations were re-surveyed in June 2015 and September 2015.

# TABLE 3 SOIL GAS ANALYTICAL RESULTS Kwik Fili M-90 1322 South 2nd Street Clearfield, PA 16830

| Sample ID                     | 1,3,5-TMB | 1,2,4-TMB | Benzene  | Toluene  | Ethylbenzene | m/p-Xylene  | o-Xylenc | Cumene   | MTBE     | Naphthalene |
|-------------------------------|-----------|-----------|----------|----------|--------------|-------------|----------|----------|----------|-------------|
|                               |           |           |          | December | 10, 2014     |             |          |          |          |             |
| SG-1                          | NS        | NS        | 0.0014   | 0.0039   | < 0.0015     | 0.0049      | 0.0019   | NS       | < 0.0013 | <0.0046     |
| SG-2                          | NS ]      | NS        | 0.0014   | 0.0036   | <0.0015      | 0.0048      | 0.0018   | NS       | < 0.0013 | < 0.0046    |
| Duplicate Grah                | NS        | NS        | 0.0011   | 0.0017   | < 0.0015     | <0.0031     | <0.0015  | NS       | < 0.0013 | < 0.0046    |
|                               |           |           |          | March 1  | 2, 2015      |             |          |          |          | ,           |
| SG-1                          | <0.0019   | <0.0019   | ~0,00063 | < 0.0015 | < 0.0017     | < 0.0034    | <0.0017  | < 0.0048 | <0.0014  | < 0.0052    |
| SG-2                          | 0.002     | 0.0071    | 0.0022   | 0.0048   | 0.0077       | 0.016       | 0.0028   | <0.0039  | < 0.0011 | <0.0042     |
| Duplicate Grab                | < 0.0016  | < 0.0016  | 0.0016   | 0.0041   | < 0.0014     | 0.004       | <0,0014  | <0,0039  | <0,0011  | < 0.0042    |
| Residential MSC <sub>SG</sub> | 0,83      | 0.83      | 0.27     | 56       | 1.9          | 14 (Total ) | (ylenes) | 54       | 8.1      | 0.42        |

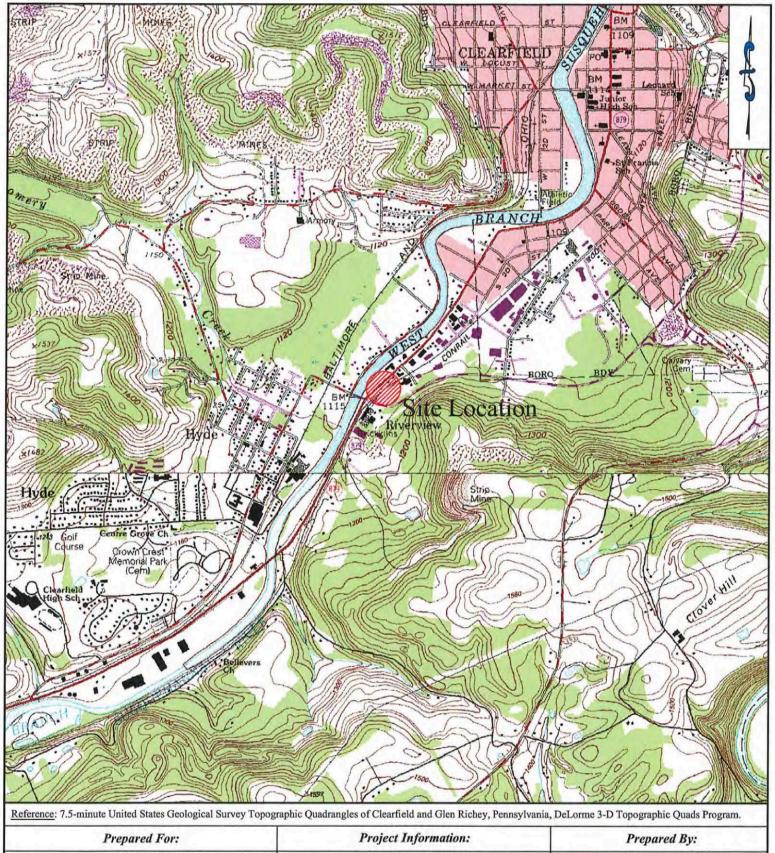
Notes: Results are reported in milligrams per cubic meter (mg/m³)

Bold values indicate a result greater than the Method Detection I imit (MDI).

Residential Medium Specific Concentrations for Soil-Gas (MSC<sub>86</sub>) derived from the Indoor Air Criteria and Odor Thresholds, Residential MSC (mg/m²),

Table 3 of the Land Recycling Program Technical Guidance Manual-Section IV.A.4 - Vapor Intrusion into Buildings from Groundwater and Soil.

# FIGURES



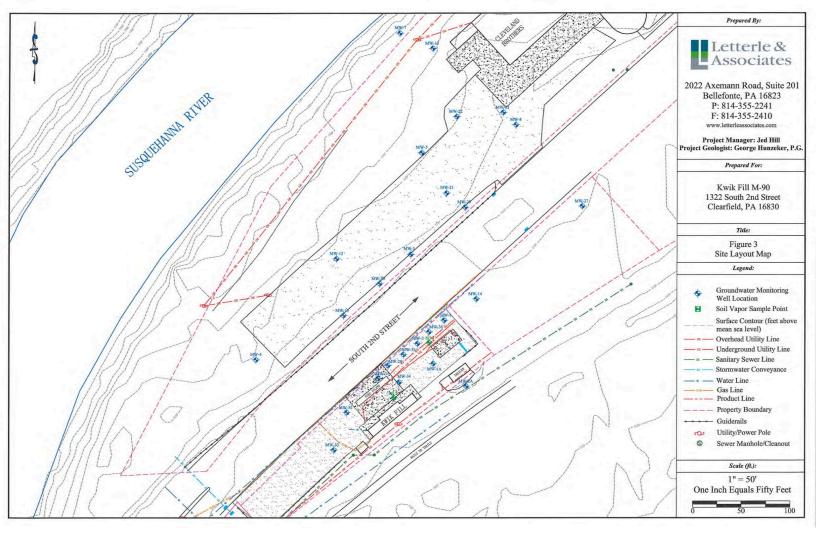
| Prepared For:                                                   | Project Information:                                                  |                           |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------|
| Kwik Fill M-90<br>1322 South 2nd Street<br>Clearfield, PA 16830 | Project Manager: Jed Hill<br>Project Geologist: George Hunzeker, P.G. | LA                        |
| Title:                                                          | Scale (feet):                                                         | 2022 Axes                 |
| Figure 1<br>Site Location Map                                   | Scale: 1" = 2000' 0 2000 4000                                         | Belle<br>P:<br>F:<br>www. |

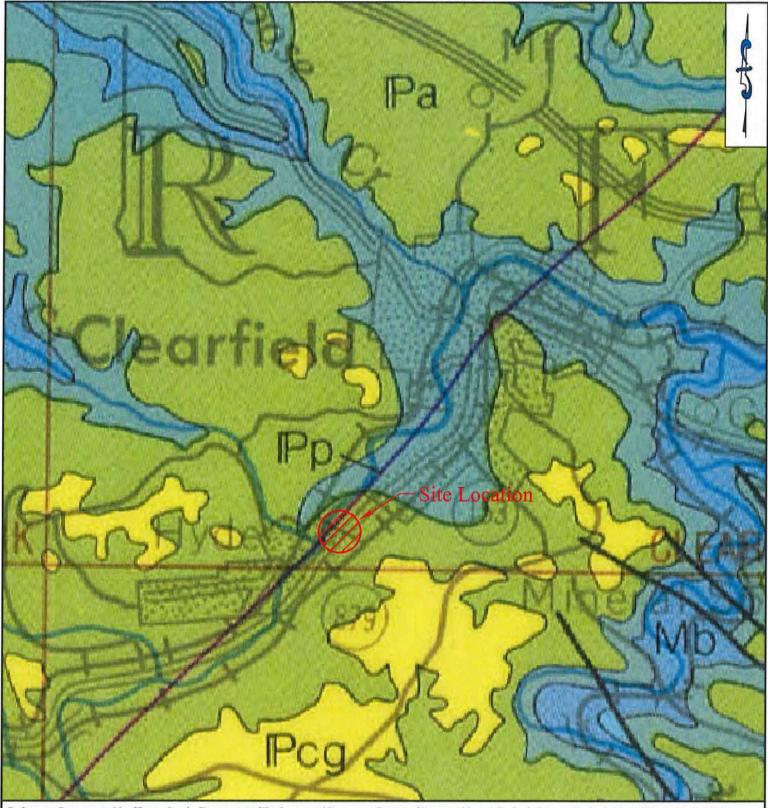


2022 Axemann Road, Suite 201 Bellefonte, PA 16823 P: 814-355-2241 F: 814-355-2410 www.letterleassociates.com

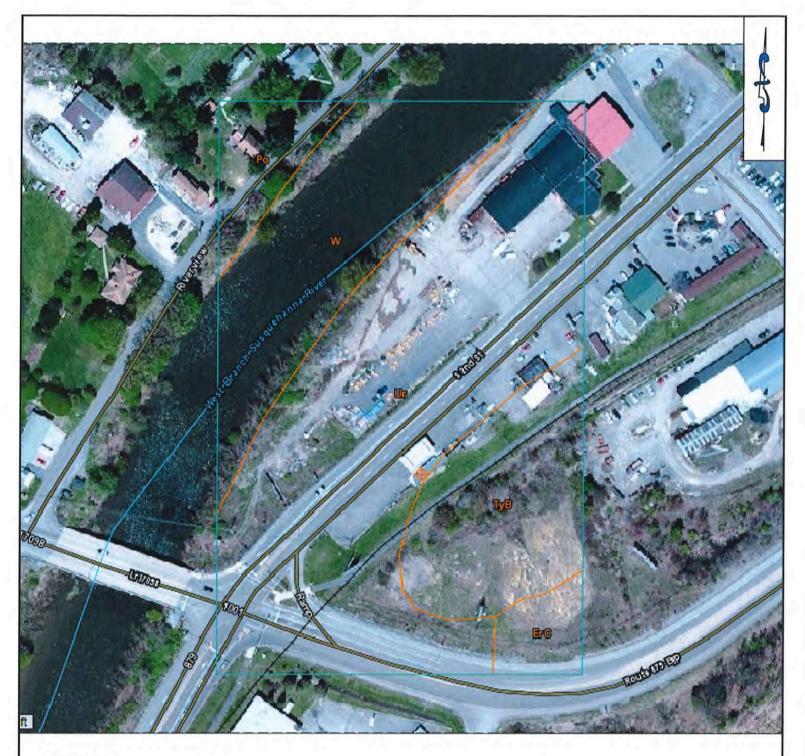


| Prepared For:                                                   | Project Information:                                                  | Prepared By:                                               |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|
| Kwik Fill M-90<br>1322 South 2nd Street<br>Clearfield, PA 16830 | Project Manager: Jed Hill<br>Project Geologist: George Hunzeker, P.G. | Letterle &<br>Associates                                   |
| Title:                                                          | Scale (feet):                                                         | 2022 Axemann Road, Suite 20                                |
| Figure 2                                                        | Scale: 1" =100'                                                       | Bellefonte, PA 16823<br>P: 814-355-2241<br>F: 814-355-2410 |
| Site Aerial Map                                                 | 0 100 200                                                             | www.letterleassociates.com                                 |





| Prepared For:                                                   | Project Information:                                                  | Prepared By:                            |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------|
| Kwik Fill M-90<br>1322 South 2nd Street<br>Clearfield, PA 16830 | Project Manager: Jed Hill<br>Project Geologist: George Hunzeker, P.G. | Letterle &<br>Associates                |
| Title:                                                          | Scale (feet):                                                         | 2022 Axemann Road, Suite 201            |
| Figure 4A                                                       | NOT TO SCALE                                                          | Bellefonte, PA 16823<br>P: 814-355-2241 |
| Preliminary Bedrock Geologic Map                                |                                                                       | F: 814-355-2410                         |

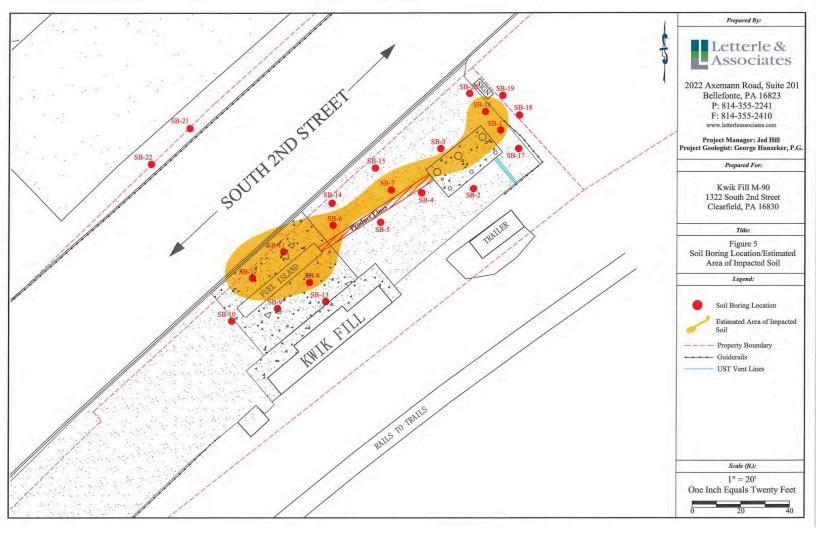


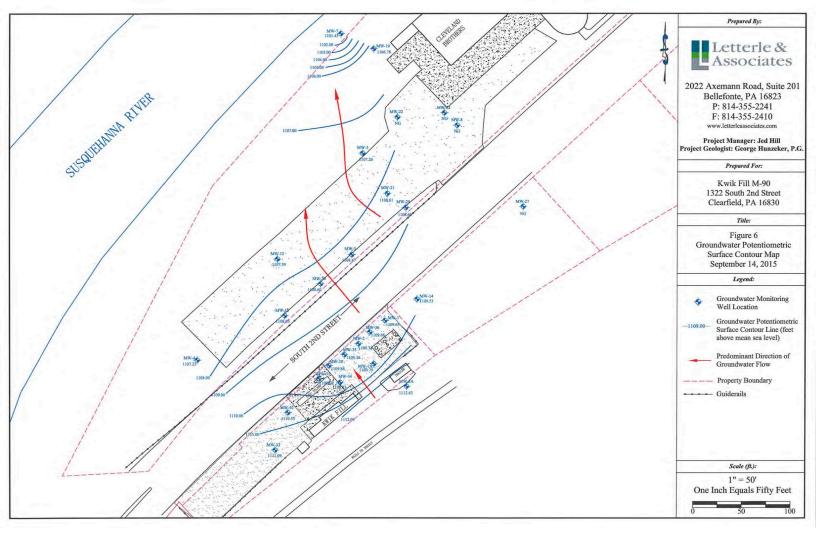
#### Site Soils:

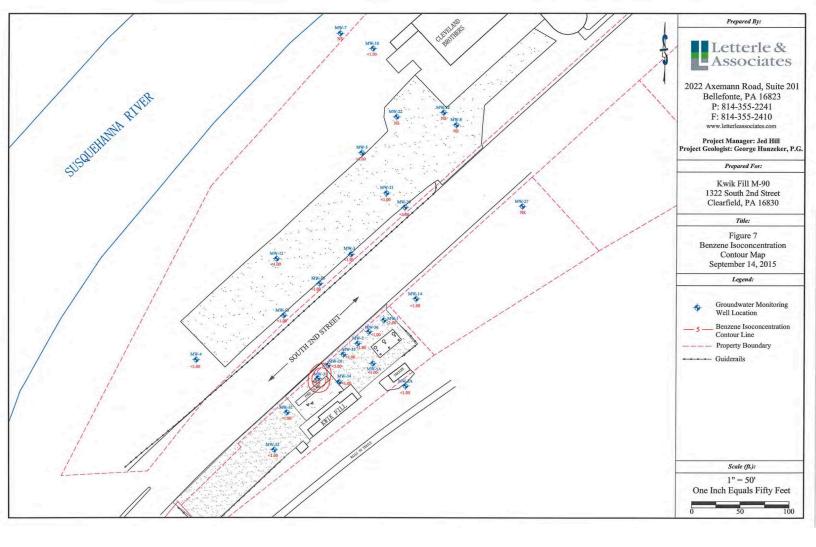
Ur - Urban land TyB - Tyler Silt Loam

Reference: United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, March 26, 2015

| Prepared For:                                                   | Project Information:                                                  | Prepared By:                                                                    |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Kwik Fill M-90<br>1322 South 2nd Street<br>Clearfield, PA 16830 | Project Manager: Jed Hill<br>Project Geologist: George Hunzeker, P.G. | Letterle &<br>Associates                                                        |
| Title:                                                          | Scale (feet):                                                         | 2022 Axemann Road, Suite 20                                                     |
| Figure 4B Unconsolidated Overburden Soils Identification Map    | Scale: 1" = 150'                                                      | Bellefonte, PA 16823 P: 814-355-2241 F: 814-355-2410 www.letterleassociates.com |









# Appendix A Custom Soil Resource Report

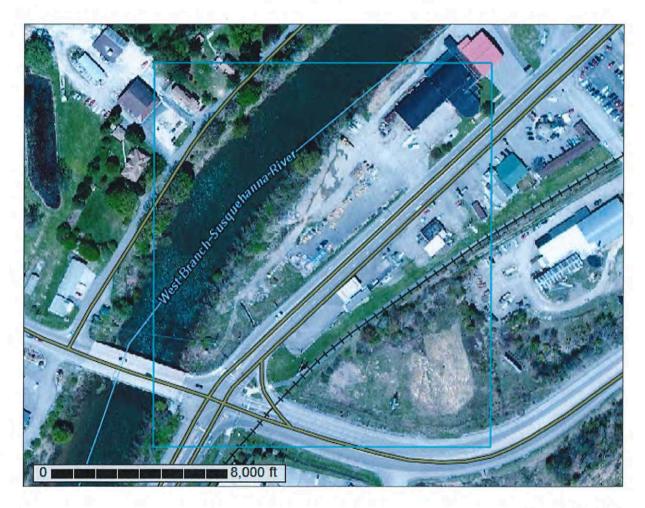


**VRCS** 

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Clearfield County, Pennsylvania

Kwik Fill M-90 Clearfield



## **Preface**

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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| Map Unit Legend                              | 10  |
| Map Unit Descriptions                        |     |
| Clearfield County, Pennsylvania              | 12  |
| ErC—Ernest silt loam, 8 to 15 percent slopes | 12  |
| Po—Pope loam                                 |     |
| TyB—Tyler silt loam, 3 to 6 percent slopes   | 14  |
| Ur—Urban land                                | 15  |
| W—Water                                      | 16  |
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# **How Soil Surveys Are Made**

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

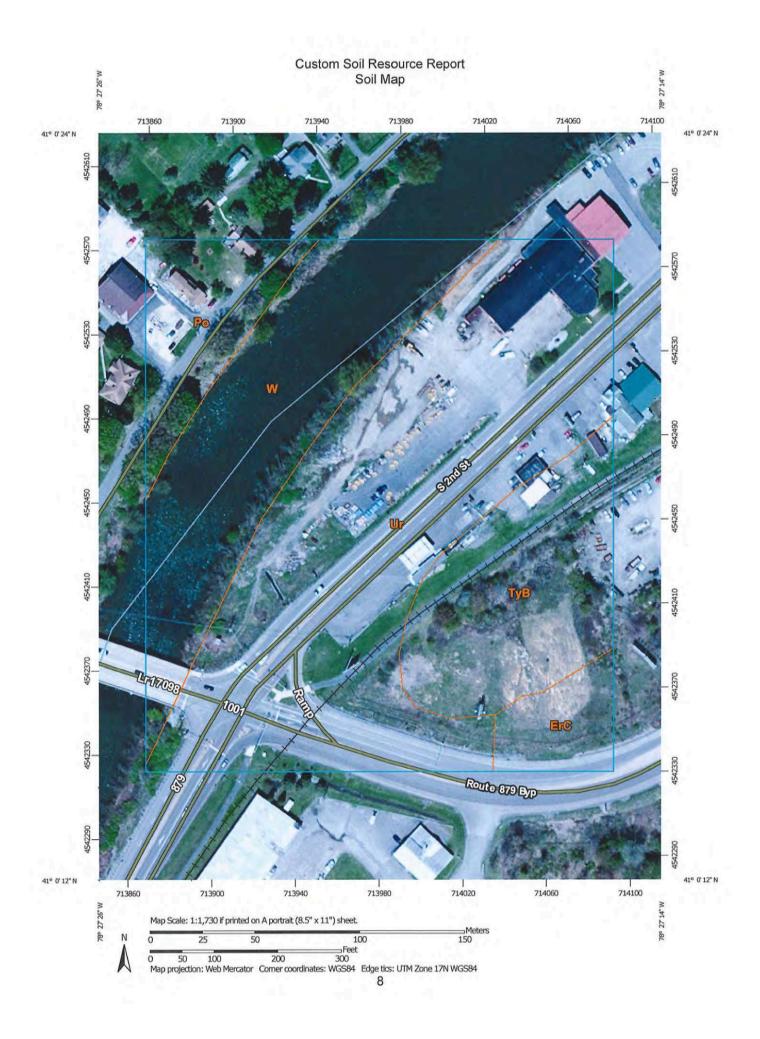
While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



#### MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at 1:20,000. Area of Interest (AOI) Spoll Area Area of Interest (AOI) Stony Spot 0 Warning: Soil Map may not be valid at this scale. Solls Very Stony Spot 0 Soil Map Unit Polygons 1 Wet Spot Enlargement of maps beyond the scale of mapping can cause Soil Map Unit Lines misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting Other Δ Soil Map Unit Points Special Line Features soils that could have been shown at a more detailed scale, **Special Point Features Water Features** Blowout (0) Please rely on the bar scale on each map sheet for map Streams and Canals Borrow Pit X Transportation Clay Spot × Rails Source of Map: Natural Resources Conservation Service 0 Closed Depression Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercalor (EPSG:3857) Interstate Highways Gravel Pit X US Routes Gravelly Spot 2. Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Major Roads Landfill 0 Local Roads distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. Lava Flow 1 Background Marsh or swamp Aerial Photography 业 受 Mine or Quarry This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. 0 Miscellaneous Water Perennial Water 0 Soil Survey Area: Clearfield County, Pennsylvania Survey Area Data: Version 8, Sep 15, 2014 Rock Outcrop Saline Spot Soil map units are labeled (as space allows) for map scales 1:50,000 Sandy Spot 100 Severely Eroded Spot Date(s) aerial images were photographed: Apr 29, 2010-Oct 17, ٥ Sinkhole 2011 30 Slide or Slip The orthophoto or other base map on which the soil lines were Sodic Spol compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident

### Map Unit Legend

|                           | Clearfield County, Penn                  | sylvania (PA033) |                |
|---------------------------|------------------------------------------|------------------|----------------|
| Map Unit Symbo            | Map Unit Name                            | Acres in AOI     | Percent of AOI |
| ErC                       | Ernest silt loam, 8 to 15 percent slopes | 0.6              | 4.3%           |
| Po                        | Pope loam                                | 1.2              | 8.4%           |
| ТуВ                       | Tyler silt loam, 3 to 6 percent slopes   | 2.3              | 16. <b>4%</b>  |
| Ur                        | Urban land                               | 6.8              | 48.5%          |
| W                         | Water                                    | 3.2              | 22.5%          |
| Totals for Area of Intere | est                                      | 14.0             | 100.0%         |

### **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic

classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

#### Clearfield County, Pennsylvania

#### ErC—Ernest silt loam, 8 to 15 percent slopes

#### Map Unit Setting

National map unit symbol: 2sgqy Elevation: 720 to 3.030 feet

Mean annual precipitation: 38 to 50 inches Mean annual air temperature: 45 to 49 degrees F

Frost-free period: 126 to 165 days

Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

Ernest and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Ernest**

#### Setting

Landform: Hillslopes

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope, head slope

Down-slope shape: Concave

Across-slope shape: Concave, linear

Parent material: Acid fine-loamy colluvium derived from shale and siltstone

#### Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 4 inches: silt loam
E - 4 to 7 inches: silt loam
BE - 7 to 11 inches: silt loam
Bt - 11 to 23 inches: silty clay loam
Btx - 23 to 56 inches: channery loam
C - 56 to 65 inches: channery silt loam

#### Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: 17 to 30 inches to fragipan Natural drainage class: Moderately well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 15 to 20 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Low (about 3.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: D

#### **Minor Components**

#### Brinkerton, wooded

Percent of map unit: 5 percent

Landform: Hillslopes

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope

Down-slope shape: Concave, linear Across-slope shape: Concave

#### Lobdell

Percent of map unit: 5 percent Landform: Flood plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear. Across-slope shape: Linear

#### Gilpin

Percent of map unit: 5 percent

Landform: Hillslopes

Landform position (two-dimensional): Summit, backslope, shoulder

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear, convex

#### Po—Pope loam

#### Map Unit Setting

National map unit symbol: |2dg | Elevation: 600 to 3,000 feet

Mean annual precipitation: 35 to 51 inches Mean annual air temperature: 46 to 55 degrees F

Frost-free period: 115 to 165 days

Familiand classification: All areas are prime farmland

#### **Map Unit Composition**

Pope and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Pope**

#### Setting

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Recent alluvium

#### Typical profile

H1 - 0 to 6 inches: loam

H2 - 6 to 41 inches: fine sandy loam H3 - 41 to 65 inches: sandy loam

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Occasional Frequency of ponding: None

Available water storage in profile: Moderate (about 8.7 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: B

#### **Minor Components**

#### Philo

Percent of map unit: 9 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope

Down-slope shape: Linear Across-slope shape: Linear

#### Atkins

Percent of map unit: 6 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope

Down-slope shape: Concave Across-slope shape: Linear

#### TyB—Tyler silt loam, 3 to 6 percent slopes

#### Map Unit Setting

National map unit symbol: I2dq Elevation: 300 to 2,000 feet

Mean annual precipitation: 35 to 50 inches Mean annual air temperature: 48 to 59 degrees F

Frost-free period: 130 to 180 days

Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

Tyler and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Tyler**

#### Setting

Landform: Stream terraces

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Concave

Parent material: Alluvium derived from sedimentary rock

#### Typical profile

H1 - 0 to 7 inches: silt loam
H2 - 7 to 20 inches: silt loam
H3 - 20 to 61 inches: silty clay loam

H4 - 61 to 65 inches: stratified gravelly loam to silty clay loam

#### Properties and qualities

Slope: 3 to 6 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: About 6 to 24 inches

Frequency of flooding: None Frequency of ponding: None

Available water storage in profile: Low (about 3.8 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: D

#### **Minor Components**

#### Purdy

Percent of map unit: 10 percent

Landform: Depressions
Down-slope shape: Linear
Across-slope shape: Concave

#### Ur-Urban land

#### Map Unit Setting

National map unit symbol: 12dv

Mean annual precipitation: 40 to 46 inches Mean annual air temperature: 48 to 57 degrees F

Frost-free period: 161 to 215 days

Farmland classification: Not prime farmland

#### Map Unit Composition

Urban land: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Urban Land**

#### Setting

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Pavement, buildings and other artifically covered areas

#### Properties and qualities

Slope: 0 to 8 percent

Depth to restrictive feature: 10 inches to densic material

Runoff class: Very high

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

#### **Minor Components**

#### Steep areas

Percent of map unit: 10 percent

#### W---Water

#### Map Unit Setting

National map unit symbol: 12dw

Mean annual precipitation: 36 to 50 inches Mean annual air temperature: 46 to 59 degrees F

Frost-free period: 120 to 214 days

Farmland classification: Not prime farmland

#### Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Water**

#### Setting

Parent material: Rivers streams ponds

#### Properties and qualities

Runoff class: Negligible

Frequency of ponding: Frequent

.

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Appendix B

Soil Boring Logs



Drill Date: May 6, 2015

### Soil Boring Log: SB-1

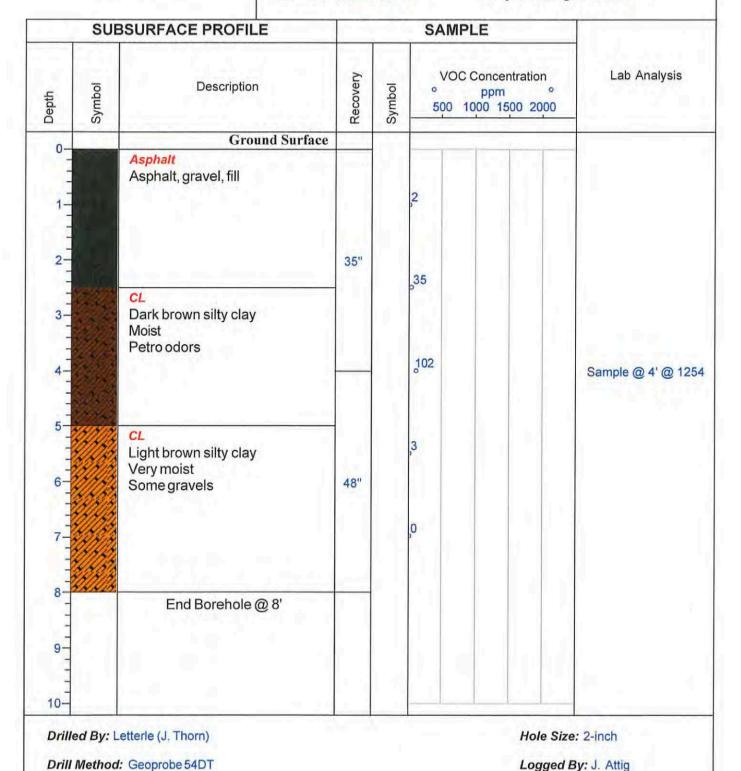
Sheet: 1 of 1

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill





# Soil Boring Log: SB-2

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill

|        | SU     | BSURFACE PROFILE                                                  |          |        | SAMPLE            |                   |
|--------|--------|-------------------------------------------------------------------|----------|--------|-------------------|-------------------|
| Depth  | Symbol | Description                                                       | Recovery | Symbol | VOC Concentration | Lab Analysis      |
| 0-     |        | Ground Surface                                                    | -6       |        |                   |                   |
| 1-     |        | Asphalt<br>Asphalt, gravel, fill                                  | 34"      |        | ,o                |                   |
| 3-     |        | CL<br>Dark brown silty clay<br>Very gravelly<br>Slight petro odor |          |        | 36                |                   |
| 5 6    |        | GW<br>Small gravel fill<br>Moist/Wet                              | 25"      |        | 0                 | Sample @ 4' @ 130 |
| 7-     |        |                                                                   |          |        | ,o                |                   |
| 9-110- |        | End Borehole @ 8'                                                 |          |        |                   |                   |

Drilled By: Letterle (J. Thorn)

Drill Method: Geoprobe 54DT

Drill Date: May 6, 2015

Hole Size: 2-inch

Logged By: J. Attig



Drill Date: May 6, 2015

### Soil Boring Log: SB-3

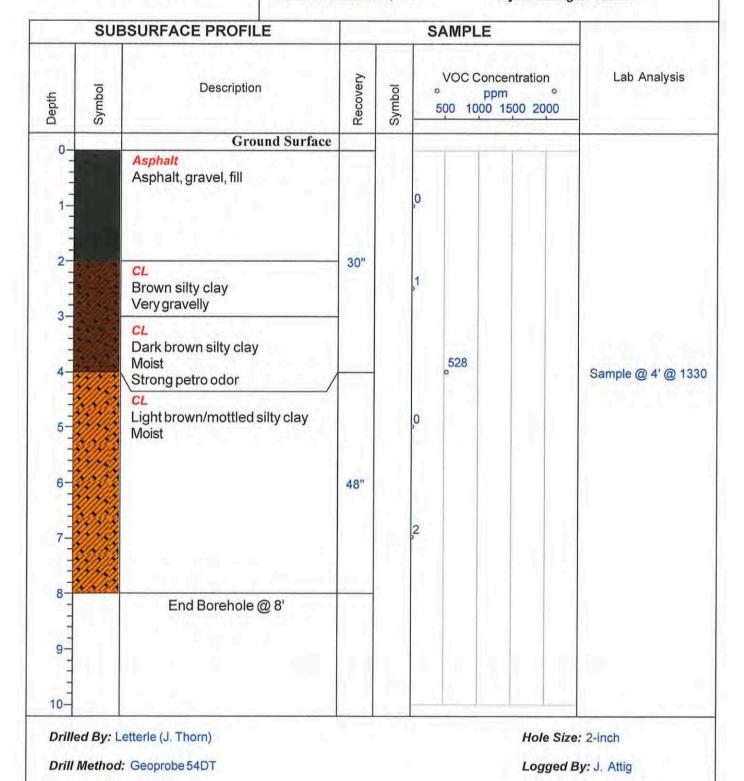
Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill





Drill Date: May 6, 2015

#### Soil Boring Log: SB-4

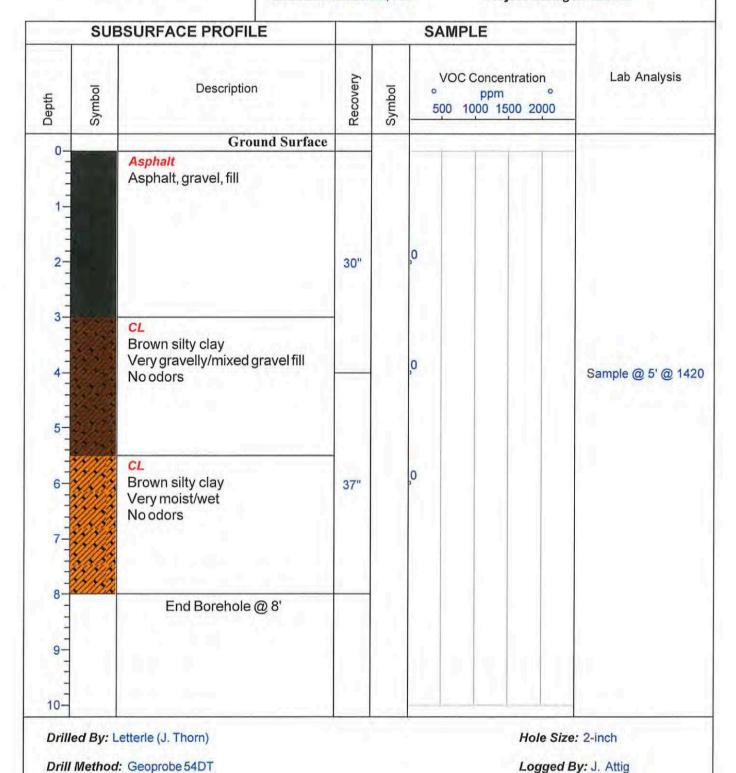
Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill





Drilled By: Letterle (J. Thorn)

Drill Method: Geoprobe 54DT

Drill Date: May 6, 2015

## Soil Boring Log: SB-5

Hole Size: 2-inch

Logged By: J. Attig

Sheet: 1 of 1

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill

|                    | SUI    | BSURFACE PROFILE                              |          |        | SAMPLE                   |                   |
|--------------------|--------|-----------------------------------------------|----------|--------|--------------------------|-------------------|
| Depth              | Symbol | Description                                   | Recovery | Symbol | VOC Concentration<br>ppm | Lab Analysis      |
| 0-                 |        | Ground Surface                                |          |        |                          |                   |
| 1-                 |        | Asphalt<br>Asphalt, gravel, fill              | 1        |        |                          |                   |
| 2-                 |        | CL<br>Brown sandy clay<br>No odors            | 30"      |        | ,o                       |                   |
| 3-                 |        |                                               |          |        | <u>,</u>                 | Sample @ 51 @ 142 |
| 4-<br>-<br>-<br>5- |        | CL<br>Dark brown silty clay<br>Moist          |          |        | 0                        | Sample @ 5' @ 143 |
| 6                  |        | CL<br>Light brown/mottled silty clay<br>Moist | 48"      |        | ,6<br>6                  |                   |
| 7-                 |        |                                               |          |        | 32                       | ļu                |
| 9-1-1-1            |        | End Borehole @ 8'                             |          |        |                          |                   |



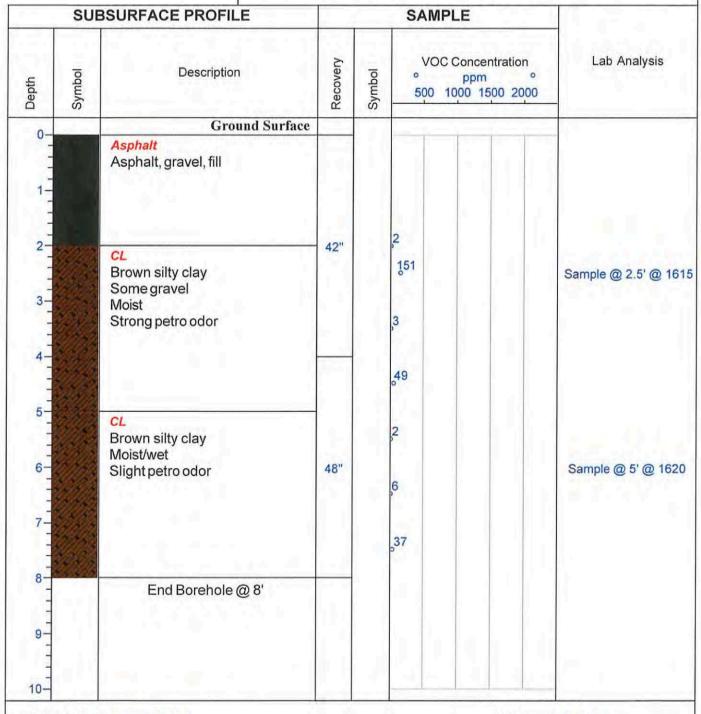
### Soil Boring Log: SB-6

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill



Drilled By: Letterle (J. Thorn)

Drill Method: Geoprobe 54DT

Drill Date: May 6, 2015

Hole Size: 2-inch

Logged By: J. Attig



Drill Method: Geoprobe 54DT

Drill Date: May 6, 2015

# Soil Boring Log: SB-7

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill

Logged By: J. Attig

|       | SUE    | BSURFACE PROFILE                                           |          |        | SAMPLE            |                   |
|-------|--------|------------------------------------------------------------|----------|--------|-------------------|-------------------|
| Depth | Symbol | Description                                                | Recovery | Symbol | VOC Concentration | Lab Analysis      |
| 0-    |        | Ground Surface                                             |          |        |                   |                   |
| 1-    |        | Asphalt<br>Asphalt, gravel, fill                           |          |        |                   | 1                 |
| 2-    |        | CL<br>Brown silty clay<br>Some gravel<br>Strong petro odor | 41"      |        | 30<br>99          |                   |
| 5     |        | CL<br>Light brown silty clay<br>Moist                      | 48"      |        | 2                 | Sample @ 4' @ 164 |
| 9-    |        | End Borehole @ 8'                                          |          |        |                   |                   |



Drill Date: May 7, 2015

### Soil Boring Log: SB-8

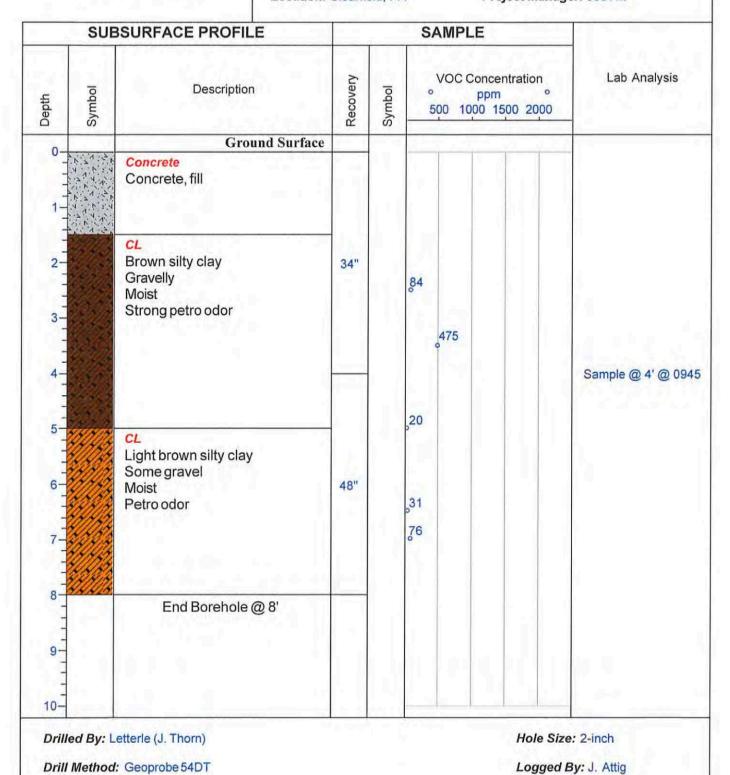
Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Pro

Project Manager: Jed Hill





Drill Method: Geoprobe 54DT

Drill Date: May 7, 2015

### Soil Boring Log: SB-9

Logged By: J. Attig

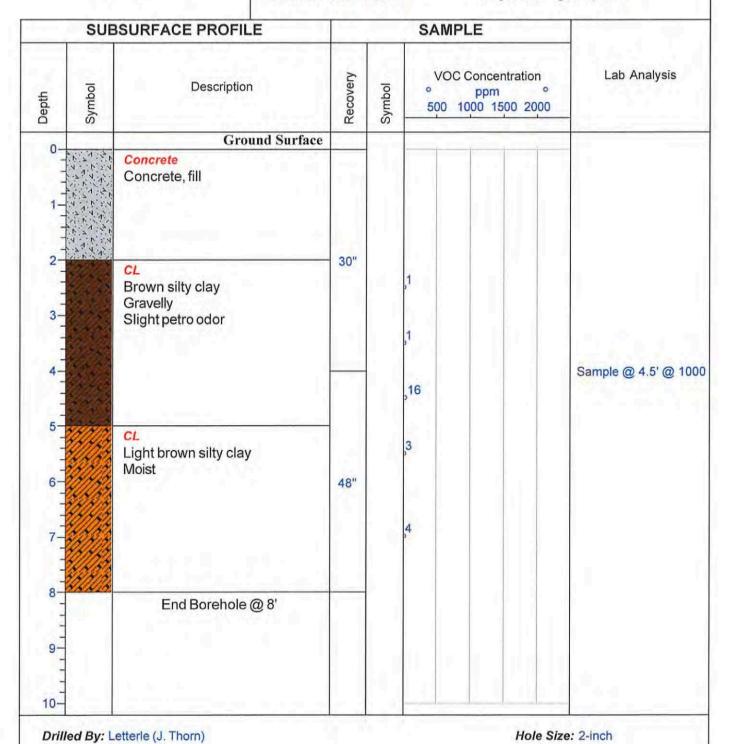
Sheet: 1 of 1

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill





#### Soil Boring Log: SB-10

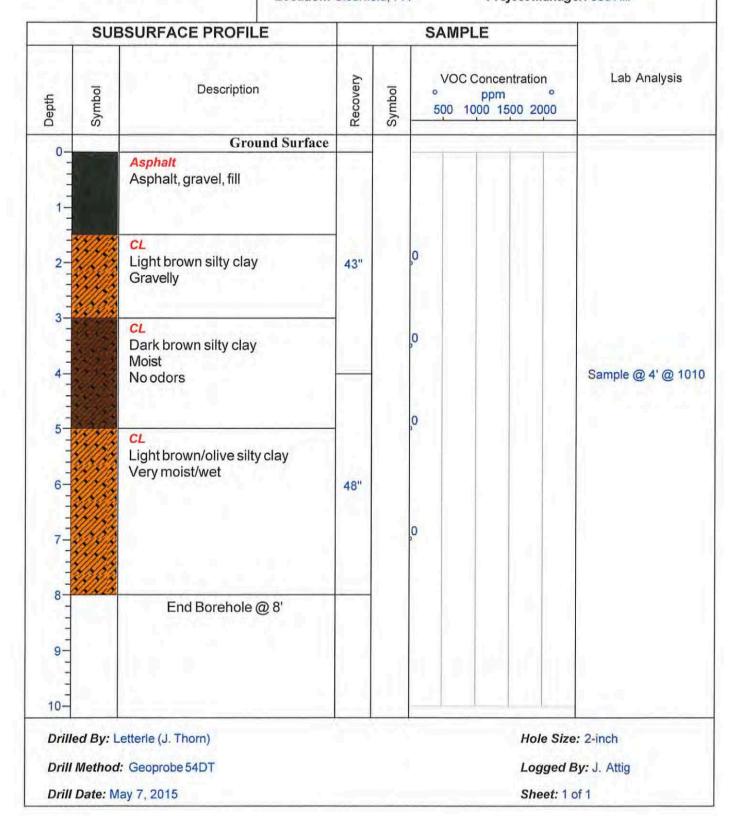
Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill





Drill Method: Geoprobe 54DT

Drill Date: May 7, 2015

### Soil Boring Log: SB-11

Project No.: 479

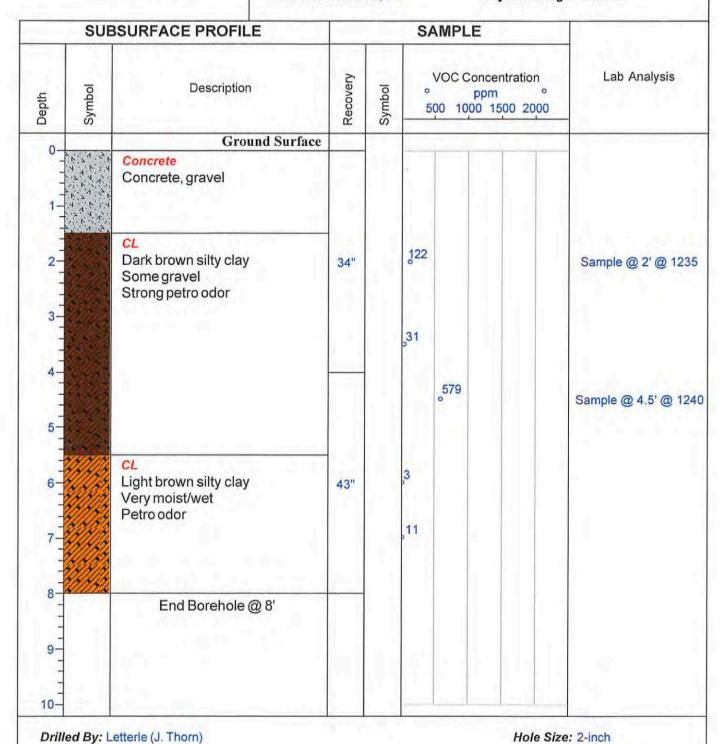
Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill

Logged By: J. Attig





### Soil Boring Log: SB-12

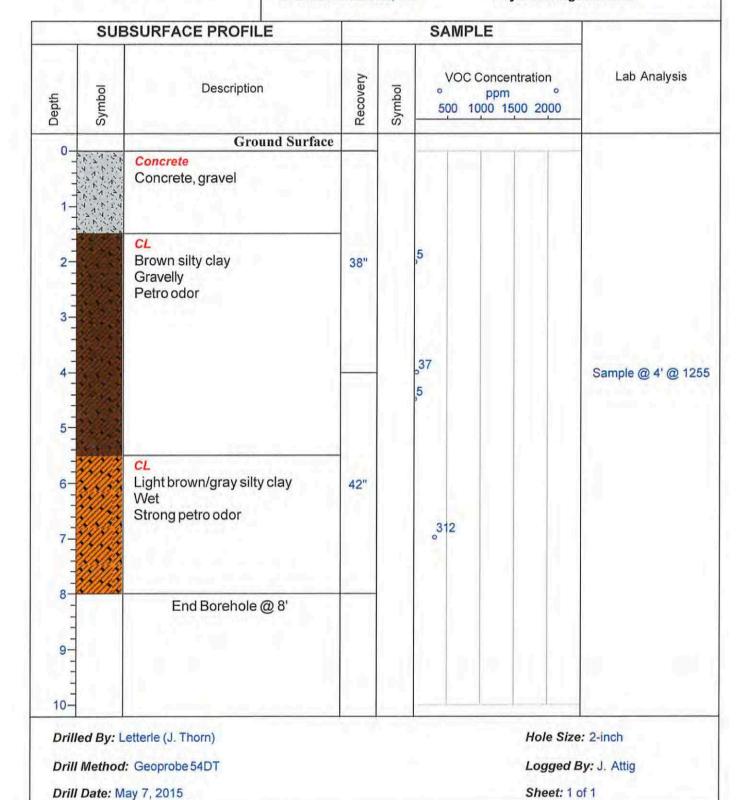
Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill





Drill Date: June 15, 2015

## Soil Boring Log: SB-13

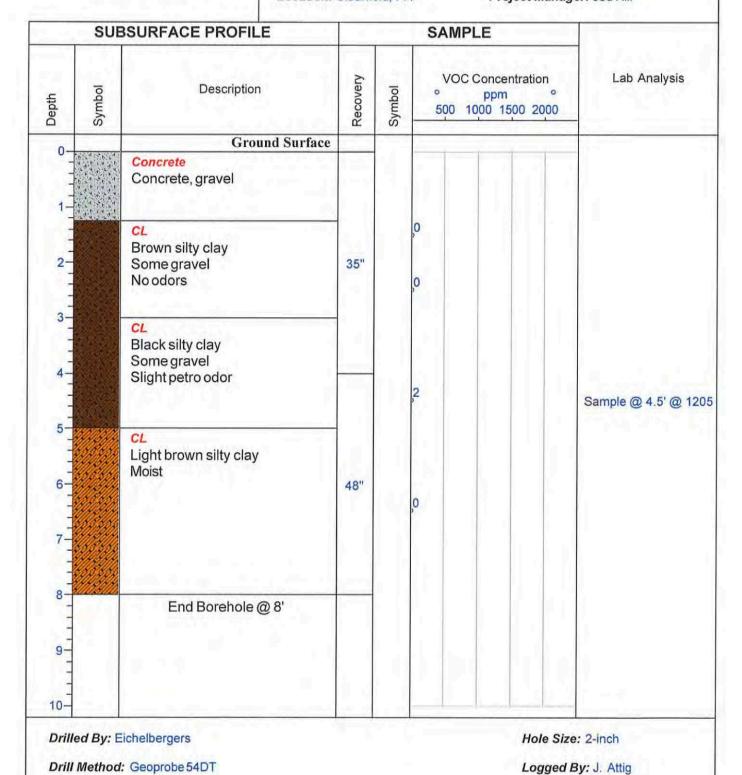
Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill





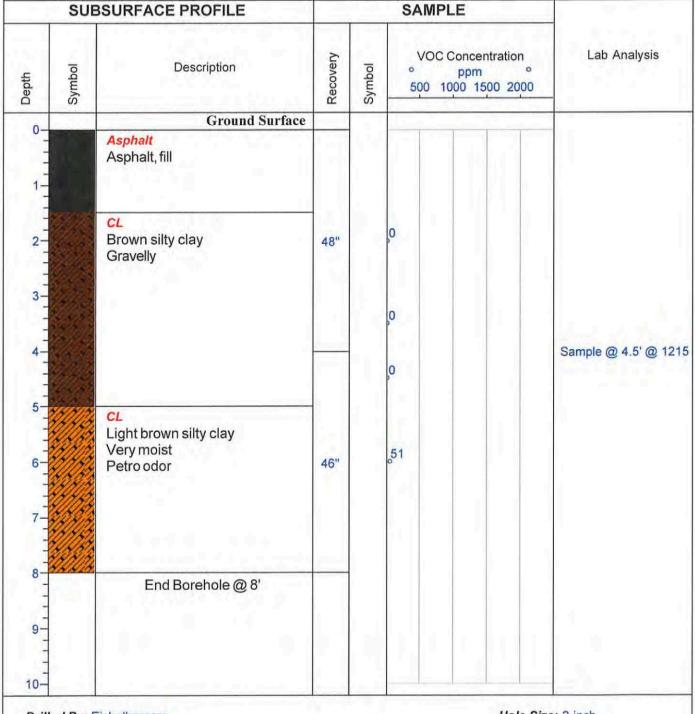
## Soil Boring Log: SB-14

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill



Drilled By: Eichelbergers

Drill Method: Geoprobe 54DT

Drill Date: June 15, 2015

Hole Size: 2-inch

Logged By: J. Attig



Drill Method: Geoprobe 54DT

Drill Date: June 15, 2015

## Soil Boring Log: SB-15

Project No.: 479

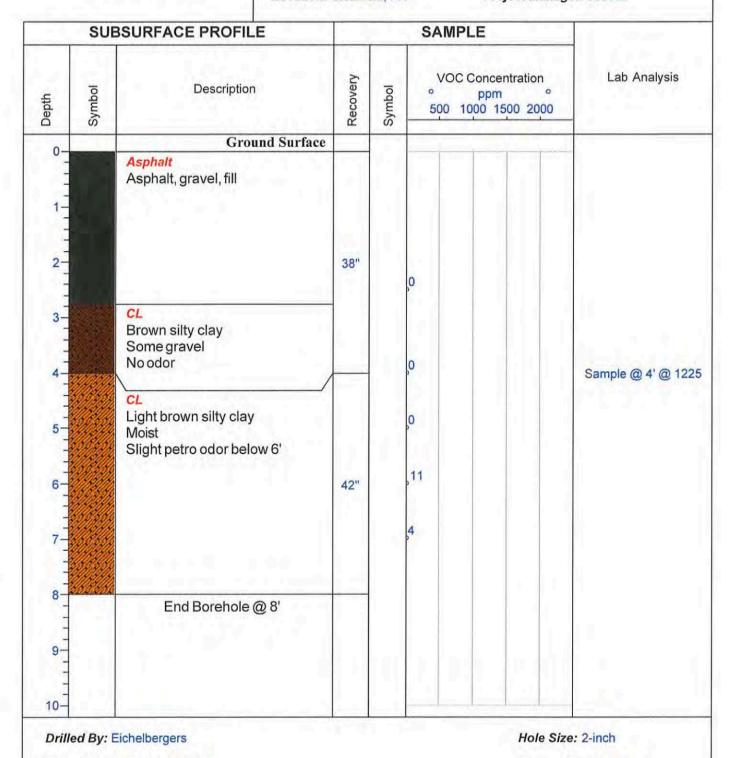
Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill

Logged By: J. Attig





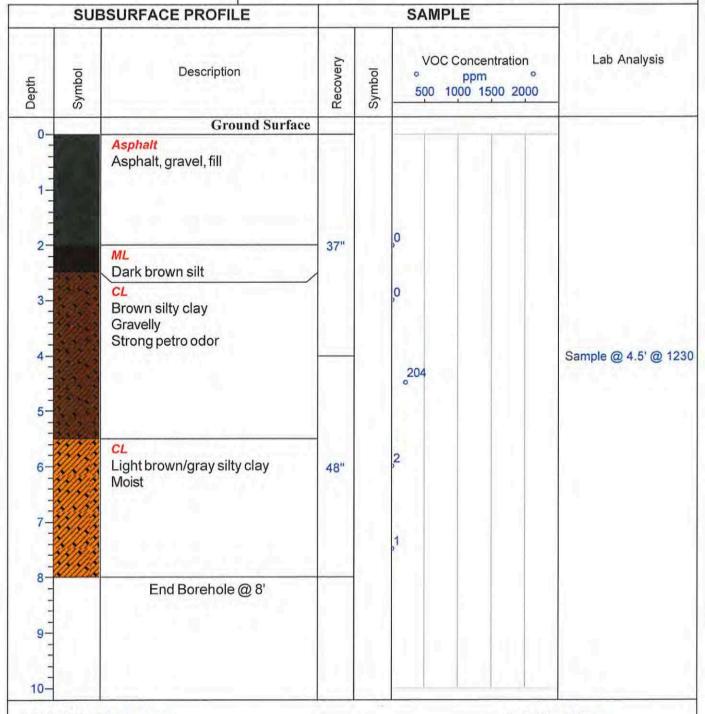
### Soil Boring Log: SB-16

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill



Drilled By: Eichelbergers

Drill Method: Geoprobe 54DT

Drill Date: June 15, 2015

Hole Size: 2-inch

Logged By: J. Attig



### Soil Boring Log: SB-17

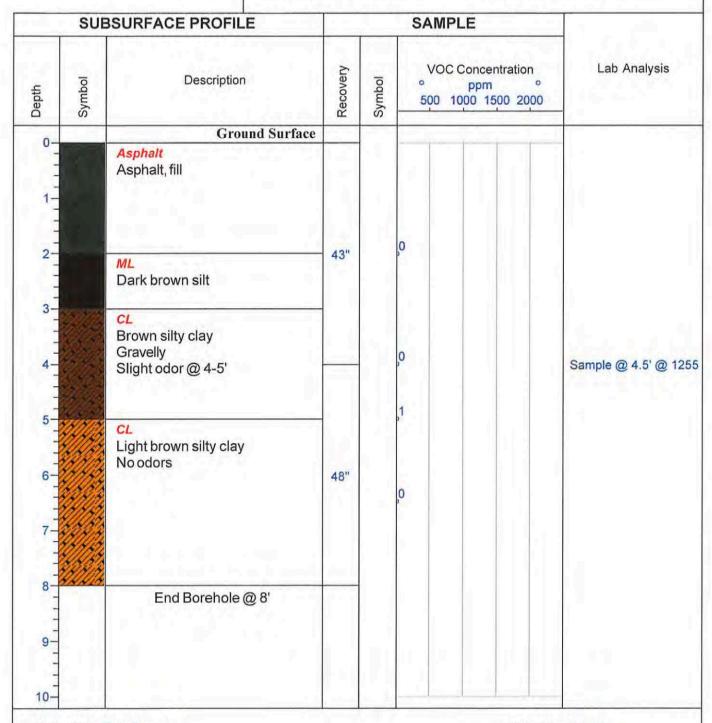
Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill



Drilled By: Eichelbergers

Drill Method: Geoprobe 54DT

Drill Date: June 15, 2015

Hole Size: 2-inch

Logged By: J. Attig



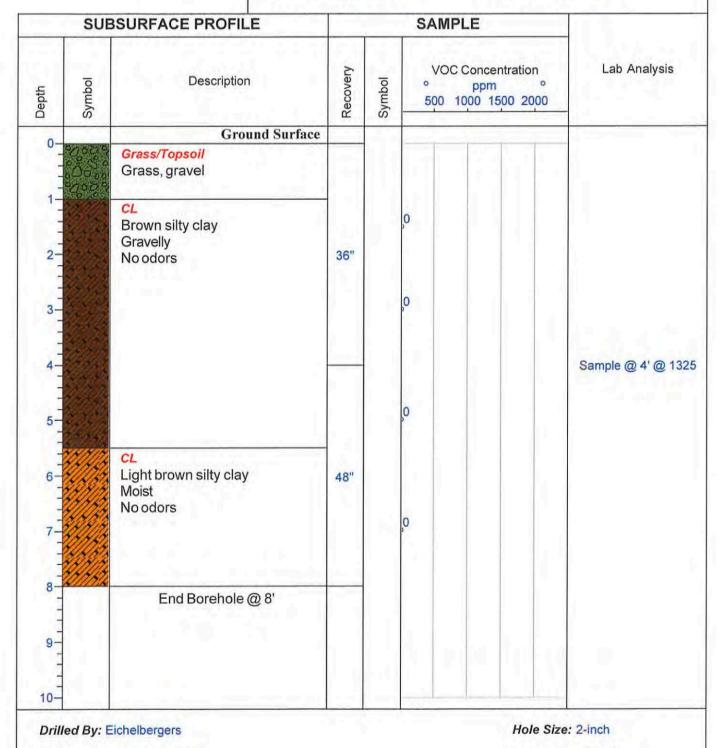
## Soil Boring Log: SB-18

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill



Drill Method: Geoprobe 54DT

Drill Date: June 15, 2015

Logged By: J. Attig



Drill Method: Geoprobe 44DT

Drill Date: August 21, 2015

# Soil Boring Log: SB-19

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill

Logged By: J. Attig

|                                          | SUE    | SSURFACE PROFILE                                                 |          |        | SAMPLE            |                     |
|------------------------------------------|--------|------------------------------------------------------------------|----------|--------|-------------------|---------------------|
| Depth                                    | Symbol | Description                                                      | Recovery | Symbol | VOC Concentration | Lab Analysis        |
| 0-                                       |        | Ground Surface                                                   |          |        |                   |                     |
| 1-                                       |        | Grass/Topsoil Grass, gravel  SM Brown silty sand, gravelly       |          |        |                   |                     |
|                                          |        | Slightly moist                                                   |          |        |                   |                     |
| 3-                                       |        | CL<br>Brown silty clay<br>Gravelly<br>No odors<br>Moist/wet @ 4' | 48"      |        | ,O                | Sample @ 3.5' @ 105 |
| 4-<br>5-                                 |        | CL<br>Brown silty clay<br>Very moist/wet<br>Petro odor @ 6-7'    |          |        |                   |                     |
| 6-                                       |        |                                                                  | 45"      |        | <sub>5</sub> 36   |                     |
| 9 10 10 10 10 10 10 10 10 10 10 10 10 10 |        | End Borehole @ 8'                                                |          |        |                   |                     |



## Soil Boring Log: SB-20

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA

Project Manager: Jed Hill

|       | SUI    | BSURFACE PROFILE                                                   |          |        | SAMPLE                                       |                      |
|-------|--------|--------------------------------------------------------------------|----------|--------|----------------------------------------------|----------------------|
| Depth | Symbol | Description                                                        | Recovery | Symbol | VOC Concentration o ppm o 500 1000 1500 2000 |                      |
| 0-    |        | Ground Surface                                                     |          |        |                                              |                      |
| 1-    |        | Asphalt Asphalt, gravel  ML Brown silt, gravel                     | 48"      |        |                                              |                      |
| 3-    |        | CL Brown silty clay Gravelly Moist/wet below 4' Petro odors @ 6-7' |          |        | 0                                            | Sample @ 3.5' @ 1038 |
| 5-    |        |                                                                    | 48"      |        | ,5 <mark>6</mark>                            |                      |
| 9-    |        | End Borehole @ 8'                                                  |          |        |                                              |                      |

Drilled By: EarthSystems

Drill Method: Geoprobe 44DT

Drill Date: August 21, 2015

Hole Size: 2-inch

Logged By: J. Attig



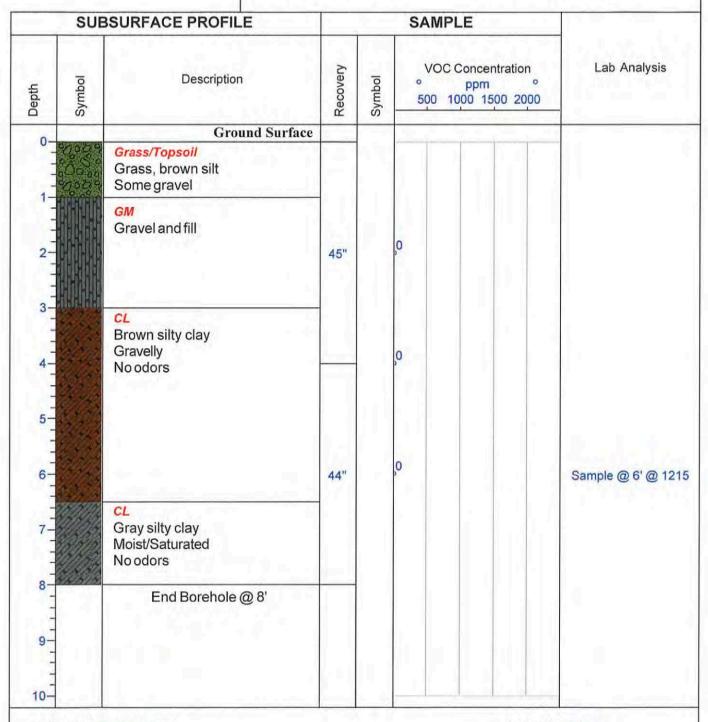
### Soil Boring Log: SB-21

Project No.: 479

Project: Clearfield GW Gauging

Client: United Refining

Location: Clearfield, PA Project Manager: Jed Hill



Drilled By: EarthSystems

Drill Method: Geoprobe 44DT

Drill Date: August 21, 2015

Hole Size: 2-inch

Logged By: J. Attig

## Appendix C

Soil, Groundwater, and Soil Gas Analytical Laboratory Reports



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector: CLIENT

05/20/15 10:32

Number of Containers:

68

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID    | Laboratory ID | Matrix | Sample Type | Date Sampled   | Date Received  |
|--------------|---------------|--------|-------------|----------------|----------------|
| SB-1 @ 4'    | 5E08060-01    | Solid  | Grab        | 05/06/15 12:54 | 05/08/15 14:10 |
| SB-2 @ 4'    | 5E08060-02    | Solid  | Grab        | 05/06/15 13:05 | 05/08/15 14:10 |
| SB-3 @ 4'    | 5E08060-03    | Solid  | Grab        | 05/06/15 13:30 | 05/08/15 14:10 |
| SB-4 @ 5'    | 5E08060-04    | Solid  | Grab        | 05/06/15 14:20 | 05/08/15 14:10 |
| SB-5 @ 5'    | 5E08060-05    | Solid  | Grab        | 05/06/15 14:30 | 05/08/15 14:10 |
| SB-6 @ 2.5'  | 5E08060-06    | Solid  | Grab        | 05/06/15 16:15 | 05/08/15 14:10 |
| SB-6 @ 5'    | 5E08060-07    | Solid  | Grab        | 05/06/15 16:20 | 05/08/15 14:10 |
| SB-7 @ 4'    | 5E08060-08    | Solid  | Grab        | 05/06/15 16:45 | 05/08/15 14:10 |
| SB-8 @ 4'    | 5E08060-09    | Solid  | Grab        | 05/07/15 09:45 | 05/08/15 14:10 |
| SB-9 @ 4.5'  | 5E08060-10    | Solid  | Grab        | 05/07/15 10:00 | 05/08/15 14:10 |
| SB-10 @ 4'   | 5E08060-11    | Solid  | Grab        | 05/07/15 10:10 | 05/08/15 14:10 |
| SB-11 @ 2'   | 5E08060-12    | Solid  | Grab        | 05/07/15 12:35 | 05/08/15 14:10 |
| SB-11 @ 4.5' | 5E08060-13    | Solid  | Grab        | 05/07/15 12:40 | 05/08/15 14:10 |
| SB-12 @ 4'   | 5E08060-14    | Solid  | Grab        | 05/07/15 12:55 | 05/08/15 14:10 |

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mot

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.



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Bellefonte PA, 16823

Jed Hill Project Manager:

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

05/20/15 10:32

Number of Containers: 68

Client Sample ID: SB-1 @ 4'

**Date/Time Sampled:** 05/06/15 12:54

Laboratory Sample ID:

5E08060-01 (Solid/Grab)

|                                   |              |       |       |           | Date / Time    |                 | *       |      |
|-----------------------------------|--------------|-------|-------|-----------|----------------|-----------------|---------|------|
| Analyte                           | Result       | MDL   | RL    | Units     | Analyzed       | Method          | Analyst | Note |
|                                   |              |       |       |           |                |                 |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |       |           |                |                 |         |      |
| 1,3,5-Trimethylbenzene            | . 14.6       |       | 4.70  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| 1,2,4-Trimethylbenzene            | 18.4         |       | 4.70  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Benzene                           | <1.88        |       | 1.88  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Toluene                           | <4.70        |       | 4.70  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Ethylbenzene                      | <4.70        |       | 4.70  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Xylenes (total)                   | <9.41        |       | 9.41  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Isopropylbenzene                  | <4.70        |       | 4.70  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Methyl tert-butyl ether           | <4.70        |       | 4.70  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Naphthalene                       | 4.82         |       | 4.70  | mg/kg dry | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 104 % | 70    | 1-130     | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 94 %  | 70    | 1-130     | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Surrogate: Fluorobenzene          |              | 99 %  | 70    | -130      | 05/13/15 17:51 | EPA 8260B       | wlm     |      |
| Conventional Chemistry Parameters | by SM/EPA Me | thods |       |           |                |                 |         |      |
| % Solids                          | 18.8         |       | 0.100 | %         | 05/11/15 15:04 | SM 2540<br>G-97 | arr     |      |

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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager: Jed Hill Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector: CLIENT 05/20/15 10:32

Number of Containers:

68

Client Sample ID: SB-2 @ 4'

**Date/Time Sampled:** 05/06/15 13:05

Laboratory Sample ID:

5E08060-02 (Solid/Grab)

| Analyte                           | Result         | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|-------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B |       |        |           |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | < 0.0038       |       | 0.0038 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 0.0049         |       | 0.0038 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Benzene                           | 0.0149         |       | 0.0015 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Toluene                           | 0.0039         |       | 0.0038 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 0.0056         |       | 0.0038 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 0.0155         |       | 0.0075 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | <0.0038        |       | 0.0038 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | 0.0039         |       | 0.0038 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0038       |       | 0.0038 | mg/kg dry | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 100 % | 70     | -130      | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 118 % | 70     | -130      | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 103 % | 70     | -130      | 05/13/15 04:11          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | by SM/EPA Me   | thods |        |           |                         |                 |              |      |
| % Solids                          | 87.0           |       | 0.100  | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |      |



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PaDEP: PA 41-04684



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

05/20/15 10:32

Number of Containers:

68

Client Sample ID: SB-3 @ 4'

**Date/Time Sampled:** 05/06/15 13:30

**Laboratory Sample ID:** 

5E08060-03 (Solid/Grab)

| Analyte                           | Result              | MDŁ    | RL     | Units     | Date / Time<br>Analyzed                | Method          | *<br>Analyst | Note |
|-----------------------------------|---------------------|--------|--------|-----------|----------------------------------------|-----------------|--------------|------|
|                                   | . 3.5 /2 . 1.00.com |        |        |           |                                        |                 |              | 9e   |
| Volatile Organic Compounds by EPA | A Method 8260B      | i<br>  |        |           | ······································ |                 |              |      |
| 1,3,5-Trimethylbenzene            | 0.0075              |        | 0.0039 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 0.0256              |        | 0.0039 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Benzene                           | 0.0123              |        | 0.0016 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0039            |        | 0.0039 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 0.0224              |        | 0.0039 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 0.0236              |        | 0.0078 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0039            |        | 0.0039 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0039            |        | 0.0039 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0039            |        | 0.0039 | mg/kg dry | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                     | 107 %  | 70     | -130      | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                     | 113%   | 70     | -130      | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                     | 100 %  | 70     | -130      | 05/13/15 04:48                         | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | s by SM/EPA Mo      | ethods |        |           |                                        |                 |              |      |
| % Solids                          | 84.7                |        | 0.100  | %         | 05/11/15 15:04                         | SM 2540<br>G-97 | arr          |      |



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Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

05/20/15 10:32

Number of Containers:

68

Client Sample ID: SB-4 @ 5'

**Date/Time Sampled:** 05/06/15 14:20

**Laboratory Sample ID:** 

5E08060-04 (Solid/Grab)

| Analyte                           | Result         | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|-------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B |       |        |           |                         |                 |              | 9с   |
| 1,3,5-Trimethylbenzene            | < 0.0043       |       | 0.0043 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 0.0053         |       | 0.0043 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Benzene                           | 0.0221         |       | 0.0017 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | .wlm         |      |
| Toluene                           | < 0.0043       |       | 0.0043 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 0.0053         |       | 0.0043 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 0.0140         |       | 0.0085 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0043       |       | 0.0043 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0043       |       | 0.0043 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0043       |       | 0.0043 | mg/kg dry | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 99 %  | 70     | 1-130     | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 116%  | 70     | -130      | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 103 % | 70     | -130      | 05/13/15 05:27          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | s by SM/EPA Me | thods |        |           |                         |                 |              |      |
| % Solids                          | 83.4           |       | 0.100  | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |      |



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Project:

UR CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

CLIENT

05/20/15 10:32

Project Manager:

Jed Hill

Number of Containers:

68

[none]

Client Sample ID: SB-5 @ 5'

**Date/Time Sampled:** 05/06/15 14:30

**Laboratory Sample ID:** 

5E08060-05 (Solid/Grab)

| Analyte                           | Result         | MDL    | RL     | Units         | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|--------|--------|---------------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Mathad 9260B |        |        |               |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0042        |        | 0.0042 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 0.0053         |        | 0.0042 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Benzene                           | 0.0138         |        | 0.0017 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0042       |        | 0.0042 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 0.0051         |        | 0.0042 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 0.0113         |        | 0.0083 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0042       |        | 0.0042 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0042       |        | 0.0042 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0042       |        | 0.0042 | mg/kg dry     | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 96 %   | 70     | )-130         | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 112 %  | 70     | )-130         | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 100 %  | 70     | )- <i>130</i> | 05/13/15 06:05          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | s by SM/EPA Me | ethods |        |               |                         |                 |              |      |
| % Solids                          | 75.5           |        | 0.100  | %             | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |      |



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

none

Reported:

Collector:

**CLIENT** 

05/20/15 10:32

Number of Containers:

68

Client Sample ID: SB-6 @ 2.5'

**Date/Time Sampled:** 05/06/15 16:15

**Laboratory Sample ID:** 

5E08060-06 (Solid/Grab)

| Analyte                           | Result       | MDL   | RL    | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Not |
|-----------------------------------|--------------|-------|-------|-----------|-------------------------|-----------------|--------------|-----|
|                                   | 75 / 100 COD |       |       |           |                         |                 | •            |     |
| olatile Organic Compounds by EPA  | Method 8260B |       |       |           |                         |                 |              |     |
| 1,3,5-Trimethylbenzene            | 6.40         |       | 0.975 | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| 1,2,4-Trimethylbenzene            | 14.7         |       | 0.975 | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wim          |     |
| Benzene                           | 12.5         |       | 0.390 | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Toluene                           | < 0.975      |       | 0.975 | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Ethylbenzene                      | 26.3         |       | 4.88  | mg/kg dry | 05/14/15 16:13          | EPA 8260B       | wlm          |     |
| Xylenes (total)                   | 14.3         | ٠     | 1.95  | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Isopropylbenzene                  | 2.56         | •     | 0.975 | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Methyl tert-butyl ether           | < 0.975      |       | 0.975 | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Naphthalene                       | 16.4         |       | 0.975 | mg/kg dry | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Surrogate: 4-Bromofluorobenzene   |              | 100 % | 70    | 130       | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Surrogate: 1,2-Dichloroethane-d4  |              | 95 %  | 70    | 1-130     | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Surrogate: Fluorobenzene          |              | 99 %  | 70    | 130       | 05/13/15 18:30          | EPA 8260B       | wlm          |     |
| Conventional Chemistry Parameters | by SM/EPA Me | thods |       |           | ·                       |                 |              |     |
| % Solids                          | 84.7         |       | 0.100 | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |     |

Fairway Laboratories, Inc.

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

05/20/15 10:32

68

Number of Containers:

Client Sample ID: SB-6 @ 5'

**Date/Time Sampled:** 05/06/15 16:20

**Laboratory Sample ID:** 

5E08060-07 (Solid/Grab)

| Analyte                           | Result         | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|-------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B |       |        |           |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | 0.0050         |       | 0.0044 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 0.0127         |       | 0.0044 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Benzene                           | 0.0784         |       | 0.0018 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Toluene                           | 0.0045         |       | 0.0044 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 0.0099         |       | 0.0044 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 0.0297         |       | 0.0088 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wIm          |      |
| Isopropylbenzene                  | < 0.0044       |       | 0.0044 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0044       |       | 0.0044 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0044       |       | 0.0044 | mg/kg dry | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 100 % | 70     | -130      | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 115 % | 70     | -130      | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 101 % | 70     | -130      | 05/13/15 06:42          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | by SM/EPA Me   | thods |        |           |                         |                 |              |      |
| % Solids                          | 79.3           |       | 0.100  | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |      |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380

PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: [none] Collector:

Reported:

**CLIENT** 

05/20/15 10:32

Number of Containers:

68

Client Sample ID: SB-7 @ 4'

**Date/Time Sampled:** 05/06/15 16:45

Laboratory Sample ID:

5E08060-08 (Solid/Grab)

|                                   |              |          |       | •         |                         |                 |              |      |
|-----------------------------------|--------------|----------|-------|-----------|-------------------------|-----------------|--------------|------|
| Analyte                           | Result       | MDL      | RL    | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|                                   |              | _        |       |           |                         |                 |              |      |
| Volatile Organic Compounds by EPA | Method 8260E | <u> </u> |       |           |                         |                 |              |      |
| 1,3,5-Trimethylbenzene            | 2.28         |          | 1.03  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 4.83         |          | 1.03  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Benzene                           | 1.89         |          | 0.411 | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Toluene                           | 1.63         |          | 1.03  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 1.22         |          | 1.03  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 4.94         |          | 2.05  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | <1.03        |          | 1.03  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | <1.03        |          | 1.03  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Naphthalene                       | 3.24         |          | 1.03  | mg/kg dry | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 98 %     | 70    | )-130     | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 96 %     | 70    | )-130     | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |              | 101 %    | 70    | )-130     | 05/13/15 19:34          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | by SM/EPA M  | ethods   |       |           |                         |                 |              |      |
| % Solids                          | 78.0         |          | 0.100 | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |      |

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

05/20/15 10:32

Number of Containers: 68

Client Sample ID: SB-8 @ 4'

**Date/Time Sampled:** 05/07/15 09:45

Laboratory Sample ID:

5E08060-09 (Solid/Grab)

|                                   |              | 1 ATST | D.f   | T7 1.     | Date / Time    | 3.6.4.1         | *       | 27.  |
|-----------------------------------|--------------|--------|-------|-----------|----------------|-----------------|---------|------|
| Analyte                           | Result       | MDL    | RL    | Units     | Analyzed       | Method          | Analyst | Note |
| Volatile Organic Compounds by EPA | Method 8260B |        |       |           |                |                 |         | 9c   |
| 1,3,5-Trimethylbenzene            | 59.1         |        | 8.45  | mg/kg dry | 05/14/15 14:54 | EPA 8260B       | wlm     |      |
| 1,2,4-Trimethylbenzene            | 182          |        | 8.45  | mg/kg dry | 05/14/15 14:54 | EPA 8260B       | wlm     |      |
| Benzene                           | 1.51         |        | 0.338 | mg/kg dry | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Toluene                           | < 0.845      |        | 0.845 | mg/kg dry | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Ethylbenzene                      | 1.32         |        | 0.845 | mg/kg dry | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Xylenes (total)                   | 37.1         |        | 1.69  | mg/kg dry | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Isopropylbenzene                  | < 0.845      |        | 0.845 | mg/kg dry | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Methyl tert-butyl ether           | < 0.845      |        | 0.845 | mg/kg dry | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Naphthalene                       | 12.9         |        | 0.845 | mg/kg dry | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 103 %  | 70    | -130      | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 93 %   | 76    | -130      | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Surrogate: Fluorobenzene          |              | 99 %   | 70    | -130      | 05/13/15 20:12 | EPA 8260B       | wlm     |      |
| Conventional Chemistry Parameters | by SM/EPA Me | thods  |       |           |                |                 |         |      |
| % Solids                          | 84.5         |        | 0.100 | %         | 05/11/15 15:04 | SM 2540<br>G-97 | arr     |      |

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

05/20/15 10:32

Number of Containers:

68

Client Sample ID: SB-9 @ 4.5'

**Date/Time Sampled:** 05/07/15 10:00

**Laboratory Sample ID:** 

5E08060-10 (Solid/Grab)

| Analyte                           | Result         | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Not |
|-----------------------------------|----------------|-------|--------|-----------|-------------------------|-----------------|--------------|-----|
| Volatile Organic Compounds by EPA | A Method 8260B |       |        |           |                         |                 |              | 91  |
| 1,3,5-Trimethylbenzene            | <0.0039        |       | 0.0039 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| 1,2,4-Trimethylbenzene            | 0.0055         |       | 0.0039 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Benzene                           | 0.0351         |       | 0.0015 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Toluene                           | < 0.0039       |       | 0.0039 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Ethylbenzene                      | < 0.0039       |       | 0.0039 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Xylenes (total)                   | 0.0214         |       | 0.0077 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Isopropylbenzene                  | < 0.0039       |       | 0.0039 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Methyl tert-butyl ether           | < 0.0039       |       | 0.0039 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Naphthalene                       | 0.0059         |       | 0.0039 | mg/kg dry | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Surrogate: 4-Bromofluorobenzene   |                | 100 % | . 70   | 1-130     | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Surrogate: 1,2-Dichloroethane-d4  |                | 113 % | 70     | -130      | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Surrogate: Fluorobenzene          |                | 99 %  | 70     | -130      | 05/13/15 07:21          | EPA 8260B       | wlm          |     |
| Conventional Chemistry Parameters | s by SM/EPA Me | thods |        |           |                         |                 |              |     |
| % Solids                          | 87,3           |       | 0.100  | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |     |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

none

Reported:

Collector: **CLIENT**  05/20/15 10:32

Number of Containers: 68

Client Sample ID: SB-10 @ 4'

**Date/Time Sampled:** 05/07/15 10:10

Laboratory Sample ID:

5E08060-11 (Solid/Grab)

| Analyte                           | Result         | MDI.   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|--------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B |        |        |           |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0045        |        | 0.0045 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | < 0.0045       |        | 0.0045 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Benzene                           | 0.0053         |        | 0.0018 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0045       |        | 0.0045 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | < 0.0045       |        | 0.0045 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | < 0.0090       |        | 0.0090 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0045       |        | 0.0045 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0045       |        | 0.0045 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0045       |        | 0.0045 | mg/kg dry | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 98 %   | 70     | )-130     | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 119 %  | 70     | -130      | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 103 %  | 70     | 130       | 05/13/15 07:59          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | s by SM/EPA Me | ethods |        |           |                         |                 |              |      |
| % Solids                          | 76.1           |        | 0.100  | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |      |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Client Sample ID: SB-11 @ 2'

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

**CLIENT** Collector:

05/20/15 10:32

68

Number of Containers:

**Date/Time Sampled:** 05/07/15 12:35

Laboratory Sample ID:

5E08060-12 (Solid/Grab)

| Analyte                           | Result       | MDL    | RL    | Units     | Date / Time<br>Analyzed | Method          | *Analyst | Note |
|-----------------------------------|--------------|--------|-------|-----------|-------------------------|-----------------|----------|------|
| Volatile Organic Compounds by EPA | Method 8260B | i      |       |           |                         |                 |          |      |
| 1,3,5-Trimethylbenzene            | 199          |        | 24.4  | mg/kg dry | 05/14/15 15:35          | EPA 8260B       | wlm      |      |
| 1,2,4-Trimethylbenzene            | 568          |        | 48.8  | mg/kg dry | 05/15/15 15:02          | EPA 8260B       | wlm      |      |
| Benzene                           | 45.8         |        | 9.76  | mg/kg dry | 05/14/15 15:35          | EPA 8260B       | wlm      |      |
| Toluene                           | 4.13         |        | 0.976 | mg/kg dry | 05/13/15 20:51          | EPA 8260B       | wlm      |      |
| Ethylbenzene                      | 151          |        | 24.4  | mg/kg dry | 05/14/15 15:35          | EPA 8260B       | wlm      |      |
| Xylenes (total)                   | 729          |        | 48.8  | mg/kg dry | 05/14/15 15:35          | EPA 8260B       | wlm      |      |
| Isopropylbenzene                  | 20.2         |        | 0.976 | mg/kg dry | 05/13/15 20:51          | EPA 8260B       | wlm      |      |
| Methyl tert-butyl ether           | < 0.976      |        | 0.976 | mg/kg dry | 05/13/15 20:51          | EPA 8260B       | wlm      |      |
| Naphthalene                       | 101          |        | 24.4  | mg/kg dry | 05/14/15 15:35          | EPA 8260B       | wlm      |      |
| Surrogate: 4-Bromofluorobenzene   | -            | 115 %  | 70    | -130      | 05/13/15 20:51          | EPA 8260B       | wlm      |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 94 %   | 70    | -130      | 05/13/15 20:51          | EPA 8260B       | wlm      |      |
| Surrogate: Fluorobenzene          |              | 100 %  | 70    | -130      | 05/13/15 20:51          | EPA 8260B       | wlm      |      |
| Conventional Chemistry Parameters | by SM/EPA Me | ethods |       |           |                         |                 |          |      |
| % Solids                          | 84.9         |        | 0.100 | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr      |      |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

UR CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

Project:

[none] CLIENT

05/20/15 10:32

Project Manager:

Jed Hill

Number of Containers:

Client Sample ID: SB-11 @ 4.5'

**Date/Time Sampled:** 05/07/15 12:40

Laboratory Sample ID:

5E08060-13 (Solid/Grab)

|                                   | 75 1         | MDI    | DI    | TT/4-     | Date / Time    | A find . I      | *       | <b>N</b> Y 4 |
|-----------------------------------|--------------|--------|-------|-----------|----------------|-----------------|---------|--------------|
| Analyte                           | Result       | MDL    | RL    | Units     | Analyzed       | Method          | Analyst | Note         |
| Volatile Organic Compounds by EPA | Method 8260B | }      |       |           |                |                 |         | 9c           |
| 1,3,5-Trimethylbenzene            | 23.8         |        | 4.66  | mg/kg dry | 05/14/15 16:52 | EPA 8260B       | wlm     |              |
| 1,2,4-Trimethylbenzene            | 72.9         |        | 4.66  | mg/kg dry | 05/14/15 16:52 | EPA 8260B       | wlm     |              |
| Benzene                           | 8.55         |        | 0.373 | mg/kg dry | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Toluene                           | < 0.932      |        | 0.932 | mg/kg dry | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Ethylbenzene                      | 12.7         |        | 0.932 | mg/kg dry | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Xylenes (total)                   | 57.7         |        | 9.32  | mg/kg dry | 05/14/15 16:52 | EPA 8260B       | wlm     |              |
| Isopropylbenzene                  | 1.86         |        | 0.932 | mg/kg dry | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Methyl tert-butyl ether           | < 0.932      |        | 0.932 | mg/kg dry | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Naphthalene                       | 13.0         |        | 0.932 | mg/kg dry | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Surrogate: 4-Bromofluorobenzene   |              | 102 %  | 76    | 7-130     | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Surrogate: 1,2-Dichloroethane-d4  |              | 91 %   | 70    | 130       | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Surrogate: Fluorobenzene          |              | 99 %   | 70    | 130       | 05/13/15 21:29 | EPA 8260B       | wlm     |              |
| Conventional Chemistry Parameters | by SM/EPA M  | ethods |       |           |                |                 |         |              |
| % Solids                          | 81.0         |        | 0.100 | %         | 05/11/15 15:04 | SM 2540<br>G-97 | arr     |              |

Fairway Laboratories, Inc.

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State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: [none]

Reported:

Collector:

CLIENT

05/20/15 10:32

Number of Containers:

68

Client Sample ID: SB-12 @ 4'

**Date/Time Sampled:** 05/07/15 12:55

**Laboratory Sample ID:** 

5E08060-14 (Solid/Grab)

| Analyte                           | Result         | MDL    | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|--------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EP  | A Method 8260B |        |        |           |                         |                 |              |      |
| 1,3,5-Trimethylbenzene            | 91.7           |        | 9.70   | mg/kg dry | 05/15/15 17:17          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 148            |        | 9.70   | mg/kg dry | 05/15/15 17:17          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 24.3           |        | 0.970  | mg/kg dry | 05/14/15 14:35          | EPA 8260B       | wlm          |      |
| Naphthalene                       | 18.3           |        | 9.70   | mg/kg dry | 05/15/15 17:17          | EPA 8260B       | wlm          |      |
| Benzene                           | 0.0764         |        | 0.0020 | mg/kg dry | 05/13/15 08:37          | EPA 8260B       | wlm          |      |
| Toluene                           | 0.0097         |        | 0.0051 | mg/kg dry | 05/13/15 08:37          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 0.0191         |        | 0.0051 | mg/kg dry | 05/13/15 08:37          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0051       |        | 0.0051 | mg/kg dry | 05/13/15 08:37          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0051       |        | 0.0051 | mg/kg dry | 05/13/15 08:37          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 111 %  | 70     | 1-130     | 05/13/15 08:37          | EPA 8260B       | wlm          | ,    |
| Surrogate: 1,2-Dichloroethane-d4  |                | 115%   | 70     | -130      | 05/13/15 08:37          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 101 %  | 70     | -130      | 05/13/15 08:37          | EPA 8260B       | wlm          | -    |
| Conventional Chemistry Parameters | by SM/EPA Me   | ethods |        |           |                         |                 |              |      |
| % Solids                          | 84.8           |        | 0.100  | %         | 05/11/15 15:04          | SM 2540<br>G-97 | arr          |      |

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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

Project:

UR CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

CLIENT Collector:

[none]

05/20/15 10:32

Project Manager:

Jed Hill

68

Number of Containers:

#### Notes

9с Vial contained more than the EPA recommended amount of soil.

#### **Definitions**

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252

certified.

Represents "less than" - indicates that the result was less than the reporting limit,

MDL. Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any

reported result values that are less than the RL are considered estimated values.

RLReporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: [1

Number of Containers:

[none]

68

Reported:

Collector:

CLIENT

05/20/15 10:32

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING
Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date.

A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fatrway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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# REQUEST FOR ANALYSIS CHAIN OF CUSTODY/

Please print. See back of COC for instructions/terms

Address:

Quote/PO#:

Fax #: Phone #: Contact:

> Altoona, PA 16602 P.O. Box 1925 2019 9th Ave.

89 Kristi Rd

0908099

Relinquisted by Project Name: 1/1 ( ) Relinquished by: Date Required: Rush TAT subject to pre-approval and surcharge TAT: Normal Z Rush Client Name: Letterle & Associates Relinquished by: Sample Description/Location 515-6 50-2 50-6 58-5 20-1 B41 56-3 4-25 S/3-> 5/3-8 50-10 691 545 814-355-2410 814-355-2241 2022 Axemann Road Bellefonte, PA 16823 350 HIV AMICE 100 120 845 15 Oct. (5) 170 051 B 5875 د) م Date Date Date Date GRAB Time Time /4/b 100 Composite Time 000 Time Phone: (814) 946-4306 Sample Temp: Received on ice? Y Start Date Composite Received by Received by: Received by (814) 946-8791 Start Time 5.6 5 S. 57 End Date Composite **GRAB** Z 5660 1381 000 1615 58 8 1545 CRI 8 ORH 1 0621 Time # CIISW4 FAIRWAY LABORATORIES Reportable to Solid PADEP? **Matrix** Yes 🗆 Water 3/8/2 54875 Other Date Date Date # of Containers 1034 Time Tune 140 140 B Environmental Laboratory 2008 Val. Gage **Analyses Requested** Phone: (570) 494-6380 Pennsdale, PA 17756 of 3 Remarks Tracking # Bottle Type/Comments LAB USE ONLY UPS FedEx Page \_ l \_ of \_ \_ COC# USPS Other

Sampled by:

By relinquishing my sample to Fairway Laboratories, inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File

Canary - FLI Copy

Pink - Customer Receipt Copy

# REQUEST FOR ANALYSIS CHAIN OF CUSTODY/

2019 9th Ave. P.O. Box 1925 Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791

FAIRWAY LABORATORIES Environmental Laboratory

89 Kristi Rd Pennsdale, PA 17756 Phone: (570) 494-6380

2083

5608060 COC#

Page 2 of 1

|                      |          |           |         |                    | H SUP   |               | ST8/15      | Les Les       | teux              | 10 Kg        | Received by: |                  |            | D                    | py:               | Relinquished by:            |
|----------------------|----------|-----------|---------|--------------------|---------|---------------|-------------|---------------|-------------------|--------------|--------------|------------------|------------|----------------------|-------------------|-----------------------------|
|                      |          |           |         |                    |         |               | <br>        |               | 7                 | <b>)</b> 54. | Received by  | <u>n</u>         |            | Date Vin 15875       | py: // J. Ko      | Relinquished by:            |
|                      |          |           |         |                    |         | <del>1/</del> | 2/20/2      |               | han               | D.A.         | Received by  |                  | 75/7       | 2-875                | that              | Relinguished by:            |
|                      |          |           |         |                    | Time    | e<br>T        | Date        |               | dies              | 1            | 41/          | +-               | 1_         | )<br> <br> <br> <br> | Ruch              |                             |
|                      |          |           |         |                    | رة<br>1 | <u>z</u> +    | 5875        |               | 1                 | 1/2 X        | Received by: | 1                |            | \$1- <b>%</b>        |                   | Sampled by:                 |
| ks                   | Remarks  |           |         |                    | ne      | e Time        | Date        | ţ             | ŀ                 | ╁            |              | -                | ╊          |                      |                   |                             |
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|                      |          | \<br>     | _       |                    |         |               |             |               |                   |              |              |                  |            |                      |                   |                             |
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|                      | +        | +         |         | +                  |         |               |             |               |                   | <del>-</del> |              |                  |            |                      |                   |                             |
|                      |          |           | 1       | +                  |         |               | +           | <u> </u>      |                   |              |              |                  |            |                      |                   |                             |
|                      |          | -         |         |                    | +       | +             | $\pm$       |               | +                 |              |              |                  |            |                      |                   |                             |
|                      |          |           |         |                    | -       | 1             |             |               |                   | -            |              |                  | +          |                      |                   |                             |
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|                      |          | _         |         |                    | (       | 4             |             | 8             | 1355              | <b>C-5</b>   |              |                  | ٦ (        |                      | 1                 | 2/5-11                      |
|                      |          | -         |         |                    |         | <u>ب</u><br>ک |             | 9.            | 1240              | \$           |              |                  | 7          |                      | - 1               | 12/2/11                     |
|                      |          | +         |         |                    |         | 4             |             | ۶             | 1235              | 5-3          |              |                  | 8          |                      | 101               |                             |
|                      |          | $\dagger$ | 1       |                    | ╀       | 十             | 0           | <b>L</b> .    | Time              | Date         | Time         | Start<br>Date    | _          | on                   | iption/Locati     | Sample Description/Location |
| Bottle Type/Comments |          |           |         |                    | ) oc    | of Co         | ther        | olid<br>ater  | 5                 |              | 2            | 2                | GRA<br>Com | +                    | bre-approver as   | Pate Required:              |
|                      |          |           |         |                    | 8       |               |             |               | End               | H            | Start        | St               | posi       |                      | Rush 🗆            | TAT: Normal A Rush          |
|                      |          |           |         |                    | Un      |               |             |               | -or-<br>Composite | Com          | Composite    | C                | te         |                      |                   | Quote/PO#:                  |
|                      |          |           |         |                    | 1. 6    |               | -<br>-<br>- | Matrix        | GRAB              | GR           |              |                  |            | 25.10                | ne: UR Claration  | Fax #: 8 4                  |
| Tracking #           |          |           |         |                    | aç      | <u></u>       |             |               |                   |              |              |                  |            |                      | -355-2241         | 1 1                         |
| UPS Other            |          |           |         |                    |         |               |             | #             | + PWSID           |              | Temp:        | Sample Temp:     |            |                      |                   | Contact:                    |
| FedEx USPS           |          |           |         |                    |         |               | <b>□</b> :3 | PADEP?        | <u> </u>          | ×            | on ice?      | Received on ice? |            | n Road<br>PA 16823   | 2022 Axemann Road | Address: 202                |
| LAB USE ONLY         |          | , cu      | Keques  | Analyses Kequesicu | ┨╸      | T             | le to       | Reportable to | סמי               |              |              |                  | es         | & Associates         | Letterle 8        | - 1                         |
|                      |          | ₽0¢       | Darrige |                    |         | 1             | k           |               |                   | , 0, 0,      | (0.10)       | 4                |            |                      |                   | ease print, occording       |

White Original - FLI File

Canary - FLI Copy Pink - Customer Receipt Copy

| SOP FLI0601-002                                                                                                         |                         | Revision 17    | n 17           |                          |                            | Date: June 18, 2014                                |                                 |                                         | Page of                                                  |               |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|----------------|--------------------------|----------------------------|----------------------------------------------------|---------------------------------|-----------------------------------------|----------------------------------------------------------|---------------|
| Receiver:                                                                                                               |                         |                | Ω              | nain of                  | Custody l                  | Chain of Custody Receiving Document 3              | ment 3                          | S                                       |                                                          | <b>ハ</b><br>キ |
| Date/Time of this check: 5/8/15 14:28 Client: Letter L & ASSOC                                                          | 5/8/15                  | 86:HI          | _Client:       | 44                       | rke EF                     | Assoc.                                             | Lat                             | 35                                      | Lab# 5608060.                                            | \             |
| Received on ICE? Y = * Sample Temperature when delivered to the Lab: 2.6 Acceptable? Y = * or In cool down process? = * | ∐ * Samı                | ile Tempera    | ture who       | n delive                 | red to the l               | Lab: 2.6 Accept                                    | table? 낶 [                      | ] * or In                               | 1 cool down process?                                     | *             |
| Custody Seals?                                                                                                          | Int                     | Intact?        |                |                          | ·                          | -                                                  |                                 |                                         |                                                          |               |
| COC/Labels on bottles agree? $ \checkmark  \square *$                                                                   | gree? <u> </u>          |                | ect contai     | ners for                 | all the analy              | Correct containers for all the analysis requested? | <br>                            | Matrix: SOC                             | 2                                                        |               |
| COC#                                                                                                                    |                         |                | Num            | ber and                  | Number and Type of BOTTLES | TTLES                                              |                                 |                                         | Comments                                                 | <u> </u>      |
|                                                                                                                         | Poly Poly<br>Non- HZSO4 | # <del>1</del> | Amber<br>H2SO4 | Amber E                  | Poly VOCS                  | Other                                              | Properly<br>Preserved           | Bacti                                   |                                                          |               |
|                                                                                                                         | Pres.                   | A ROS          |                | Pres.                    | spaces)                    |                                                    | *                               |                                         |                                                          |               |
|                                                                                                                         |                         | Ø              |                |                          |                            |                                                    | ŲΑ                              |                                         |                                                          | <u> </u>      |
|                                                                                                                         |                         | <del>(</del>   |                |                          | <b>-</b>                   | <                                                  | 2                               |                                         |                                                          | 1_            |
| <u>_</u>                                                                                                                |                         | ىد             |                |                          |                            | ~                                                  | C<br>A                          |                                         |                                                          |               |
|                                                                                                                         |                         |                |                |                          |                            |                                                    |                                 |                                         |                                                          |               |
|                                                                                                                         |                         |                |                |                          |                            |                                                    |                                 |                                         |                                                          | <u> </u>      |
| 4                                                                                                                       |                         |                |                |                          |                            |                                                    |                                 |                                         |                                                          |               |
|                                                                                                                         |                         |                |                |                          |                            |                                                    |                                 |                                         |                                                          |               |
|                                                                                                                         |                         |                |                |                          |                            |                                                    |                                 |                                         |                                                          | <u> </u>      |
| * DEVIATION PRESENT:                                                                                                    | ENT:                    |                | CLIEN          | CLIENT CALLED:<br>YES () | CED:                       |                                                    | CLIENT<br>Proceed               | CLIENT RESPONSE: Proceed with analysis; | CLIENT RESPONSE: Proceed with analysis; qualify data     | .C            |
|                                                                                                                         | perature                |                | By Whom:       | OIM:                     |                            |                                                    | Will Resample<br>Provided Infor | Will Resample<br>Provided Information   | ation                                                    |               |
|                                                                                                                         | ) <b>n:</b>             | Ç              |                |                          | Date:                      | fe:                                                | _ No Resp                       | sponse; Pr<br>Contact:                  | No Response; Proceed and qualified Client Contact: Date: |               |
| *                                                                                                                       |                         | ļ              |                |                          |                            |                                                    |                                 |                                         |                                                          |               |
| Comments:                                                                                                               |                         |                |                |                          |                            |                                                    |                                 |                                         |                                                          |               |
|                                                                                                                         |                         |                |                |                          |                            |                                                    |                                 |                                         |                                                          |               |



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PaDEP: PA 41-04684



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

Number of Containers:

[none]

Reported:

Collector:

CLIENT

06/29/15 10:19

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID       | Matrix | Sample Type | Date Sampled   | Date Received  |
|-----------|---------------------|--------|-------------|----------------|----------------|
| SB-13     | 5F16032-01          | Solid  | Grab        | 06/15/15 12:05 | 06/16/15 13:50 |
| SB-14     | 5F16032-02          | Solid  | Grab        | 06/15/15 12:15 | 06/16/15 13:50 |
| SB-15     | 5F16032-03          | Solid  | Grab        | 06/15/15 12:25 | 06/16/15 13:50 |
| SB-16     | 5F16032-04          | Solid  | Grab        | 06/15/15 12:30 | 06/16/15 13:50 |
| SB-17     | 5F16032-05          | Solid  | Grab        | 06/15/15 12:55 | 06/16/15 13:50 |
| SB-18     | 5F16032 <b>-</b> 06 | Solid  | Grab        | 06/15/15 13:25 | 06/16/15 13:50 |

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAT

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical

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.

Page 1 of 11



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager: Jed Hill Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector: CLIENT 06/29/15 10:19

Number of Containers: 24

Client Sample ID: SB-13

**Date/Time Sampled:** 06/15/15 12:05

**Laboratory Sample ID:** 

5F16032-01 (Solid/Grab)

| Analyte                           | Result         | MDL      | RL     | Units         | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|----------|--------|---------------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B | <b>:</b> |        |               |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0037        |          | 0.0037 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | < 0.0037       |          | 0.0037 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Benzene                           | < 0.0015       |          | 0.0015 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0037       |          | 0.0037 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | < 0.0037       |          | 0.0037 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | < 0.0074       |          | 0.0074 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0037       |          | 0.0037 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0037       |          | 0.0037 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0037       |          | 0.0037 | mg/kg dry     | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 106 %    | 70     | )-130         | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 116%     | 70     | 130           | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 90 %     | 70     | I- <i>130</i> | 06/18/15 07:05          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameter  | s by SM/EPA Mo | ethods   |        |               |                         |                 |              |      |
| % Solids                          | 75.7           |          | 0.100  | %             | 06/17/15 15:28          | SM 2540<br>G-97 | arr          |      |

Fairway Laboratories, Inc.

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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

06/29/15 10:19

Number of Containers:

24

Client Sample ID: SB-14

Laboratory Sample ID:

**Date/Time Sampled:** 06/15/15 12:15

5F16032-02 (Solid/Grab)

| Analyte                           | Result         | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|-------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B |       |        |           |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0042        |       | 0.0042 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | < 0.0042       |       | 0.0042 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Benzene                           | < 0.0017       |       | 0.0017 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0042       |       | 0.0042 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | < 0.0042       |       | 0.0042 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | < 0.0084       |       | 0.0084 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0042       |       | 0.0042 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0042       |       | 0.0042 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0042       |       | 0.0042 | mg/kg dry | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 100 % | . 70   | 1-130     | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 118 % | 70     | -130      | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 93 %  | 70     | -130      | 06/18/15 07:43          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | by SM/EPA Me   | thods |        |           |                         |                 |              |      |
| % Solids                          | 74.2           |       | 0.100  | %         | 06/17/15 15:28          | SM 2540<br>G-97 | arr          |      |

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical repart.



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

06/29/15 10:19

Number of Containers: 24

Client Sample ID: SB-15

**Date/Time Sampled:** 06/15/15 12:25

Laboratory Sample ID:

5F16032-03 (Solid/Grab)

| Analyte                           | Result         | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|-------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Mathad 8760R |       |        |           |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0041        |       | 0.0041 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          | 2a   |
| 1,2,4-Trimethylbenzene            | < 0.0041       |       | 0.0041 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          | 2a   |
| Benzene                           | 0.0099         |       | 0.0016 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          | 2a   |
| Toluene                           | < 0.0041       |       | 0.0041 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          | 2a   |
| Ethylbenzene                      | < 0.0041       |       | 0.0041 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          | 2a   |
| Xylenes (total)                   | < 0.0082       |       | 0.0082 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          | 2a   |
| Isopropylbenzene                  | < 0.0041       |       | 0.0041 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0041       |       | 0.0041 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0041       |       | 0.0041 | mg/kg dry | 06/18/15 08:21          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 101%  | 70     | 1-130     | 06/18/15 08:21          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 115%  | 70     | -130      | 06/18/15 08:21          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 91%   | 70     | 130       | 06/18/15 08:21          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | s by SM/EPA Me | thods |        |           |                         |                 |              |      |
| % Solids                          | 85.1           |       | 0.100  | %         | 06/17/15 15:28          | SM 2540<br>G-97 | arr          |      |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: [none]

CLIENT

Reported:

Collector: Number of Containers:

06/29/15 10:19

Client Sample ID: SB-16

**Date/Time Sampled:** 06/15/15 12:30

**Laboratory Sample ID:** 

5F16032-04 (Solid/Grab)

| Analyte                           | Result       | MDL      | RL    | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|--------------|----------|-------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | Method 8260B | <b>.</b> |       |           |                         |                 |              | 9с   |
| 1,3,5-Trimethylbenzene            | 59.9         |          | 8.95  | mg/kg dry | 06/23/15 19:42          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | 215          |          | 8.95  | mg/kg dry | 06/23/15 19:42          | EPA 8260B       | wlm          |      |
| Benzene                           | < 0.358      |          | 0.358 | mg/kg dry | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.895      |          | 0.895 | mg/kg dry | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | 17.5         |          | 0.895 | mg/kg dry | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | 53.6         |          | 17.9  | mg/kg dry | 06/23/15 19:42          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | 3.94         |          | 0.895 | mg/kg dry | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.895      |          | 0.895 | mg/kg dry | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Naphthalene                       | 18.0         |          | 0.895 | mg/kg dry | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 105 %    | 70    | -130      | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 93 %     | 70    | -130      | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |              | 90 %     | 70    | -130      | 06/23/15 02:36          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | by SM/EPA Mo | ethods   |       |           | <u> </u>                |                 |              |      |
| % Solids                          | <b>7</b> 7.7 |          | 0.100 | %         | 06/17/15 15:28          | SM 2540<br>G-97 | arr          |      |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

06/29/15 10:19

Number of Containers: 24

Client Sample ID: SB-17

**Date/Time Sampled:** 06/15/15 12:55

**Laboratory Sample ID:** 

5F16032-05 (Solid/Grab)

| Analyte                           | Result         | MDL   | RL                                    | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|-------|---------------------------------------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B |       |                                       |           |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0040        |       | 0.0040                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | < 0.0040       |       | 0.0040                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Benzene                           | < 0.0016       |       | 0.0016                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0040       |       | 0.0040                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | < 0.0040       |       | 0.0040                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | < 0.0081       |       | 0.0081                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0040       |       | 0.0040                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0040       |       | 0.0040                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0040       |       | 0.0040                                | mg/kg dry | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 102 % | 70                                    | -130      | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 115%  | 70                                    | -130      | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 91 %  | 70                                    | -130      | 06/19/15 00:21          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | s by SM/EPA Me | thods | · · · · · · · · · · · · · · · · · · · | -         |                         |                 |              |      |
| % Solids                          | 76.0           |       | 0.100                                 | %         | 06/17/15 15:28          | SM 2540<br>G-97 | arr          |      |

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PaDEP: PA 41-04684



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

State Certifications: MD 275, WV 364

UR CLEARFIELD

Project Number:

Project:

none

Reported:

Bellefonte PA, 16823

Collector:

**CLIENT** 

06/29/15 10:19

Project Manager:

Jed Hill

Number of Containers:

Client Sample ID: SB-18

**Date/Time Sampled:** 06/15/15 13:25

**Laboratory Sample ID:** 

5F16032-06 (Solid/Grab)

| A14                               |                | MIN   | 7).7   | T I : 400 | Date / Time    | Marka           | *       | NĪ+- |
|-----------------------------------|----------------|-------|--------|-----------|----------------|-----------------|---------|------|
| Analyte                           | Result         | MDL   | RL     | Units     | Analyzed       | Method          | Analyst | Note |
| Volatile Organic Compounds by EPA | A Method 8260B |       |        |           |                |                 |         | 9c   |
| 1,3,5-Trimethylbenzene            | < 0.0039       |       | 0.0039 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| 1,2,4-Trimethylbenzene            | < 0.0039       |       | 0.0039 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Benzene                           | < 0.0016       |       | 0.0016 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Toluene                           | < 0.0039       |       | 0.0039 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Ethylbenzene                      | < 0.0039       |       | 0.0039 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Xylenes (total)                   | < 0.0079       |       | 0.0079 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Isopropylbenzene                  | < 0.0039       |       | 0.0039 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Methyl tert-butyl ether           | < 0.0039       |       | 0.0039 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Naphthalene                       | < 0.0039       |       | 0.0039 | mg/kg dry | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Surrogate: 4-Bromofluorobenzene   |                | 104 % | 70     | -130      | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 123 % | 70     | -130      | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Surrogate: Fluorobenzene          |                | 92 %  | 70     | -130      | 06/19/15 00:59 | EPA 8260B       | wlm     |      |
| Conventional Chemistry Parameters | s by SM/EPA Me | thods |        |           |                |                 |         |      |
| % Solids                          | 79.5           |       | 0.100  | %         | 06/17/15 15:28 | SM 2540<br>G-97 | arr     |      |

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

none

Reported:

Collector:

**CLIENT** 

06/29/15 10:19

Number of Containers:

24

#### Notes

The RPD result exceeded the QC control limits for the duplicate, LCSD or MSD sample analyzed. 2a

Vial contained more than the EPA recommended amount of soil. 9с

#### **Definitions**

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

Represents "less than" - indicates that the result was less than the reporting limit.

Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any MDL reported result values that are less than the RL are considered estimated values.

RL. Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: none

Collector:

CLIENT

Reported: 06/29/15 10:19

Number of Containers:

24

#### Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any bazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

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# REQUEST FOR ANALYSIS

Please print. See back of COC for instructions/terms

2019 9th Ave. P.O. Box 1925 Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791

Client Page # \_ \ of \_ \

| a contanons.                                    |       | l                | Ì                |             | ŀ               | I             | l              | j                                      |                |          |          |           | • |          | 1        | The state of the s |
|-------------------------------------------------|-------|------------------|------------------|-------------|-----------------|---------------|----------------|----------------------------------------|----------------|----------|----------|-----------|---|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Client Name: Letterle & Associates              | Ñ     |                  |                  |             | <del>'</del> مر | Reportable to | ble to         |                                        |                | Analyses |          | Requested | Ĕ |          | <b>!</b> | LAB USE ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| )22 Axemanr                                     |       | Receive          | Received on ice? | Υ           |                 | PADEP?        | ¥ÿ.            |                                        |                |          |          | _         | _ |          | υ≷       | Work Order # U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                 |       |                  |                  |             |                 | Yes 🛛         | <u></u>        |                                        |                |          |          |           |   |          | <u> </u> | 710000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Contact: See # >11                              |       | Sample Temp:     | Temp:            |             | PWSID#          |               |                |                                        | <u>c</u>       |          |          |           |   |          | Att      | Attach#//                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 84                                              |       |                  |                  | ÷           | :               |               | ļ              |                                        | ere            |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Fax #: 814-355-2410                             |       | ı                |                  |             |                 | 1             | •              | 1                                      | G              |          |          |           |   |          | <u></u>  | FI I Page #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| t Nan                                           |       |                  |                  | GRAB        | AB              | XLINEIA       | <b>┧</b> 🖫     |                                        | ١,             |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Quote/PO#:                                      | }     |                  |                  | -0r-        | 7               |               |                | S                                      | ۸(             |          |          |           |   |          | 7        | adian #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TAT: Normal & Rush □                            | osite | Com              | Composite        | Composite   | osite           |               |                | aine                                   | <u>ر</u>       |          |          |           |   |          | 1        | er dening "                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rush TAT subject to pre-approval and surcharge. | mp    | Ş                | ì                |             |                 |               | _              | nt                                     | Ó              |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Date Required:/ B                               | Co    |                  |                  |             |                 | id<br>ter     |                | f C                                    | <del>)</del> 0 |          |          |           |   |          | Τį       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sample Description/Location                     |       | Start<br>Date    | Start<br>Time    | End<br>Date | End<br>Time     | Sol           | Ot             | # o                                    | , ,            | _        | <u> </u> | _         |   | -        | B        | Bottle Type/Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5 <i>13</i>                                     |       |                  |                  | 6,15        | 30c(            | ×             |                | -5                                     | ۴              |          |          |           | - |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |       |                  |                  |             | ટાદ             | 7             |                |                                        |                | _        |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5B-15 A                                         |       |                  | !                |             | ટ્રલ્લા         | ×             | <u> </u>       |                                        |                |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 5/3-16                                          |       |                  |                  | ļ           | 138             | *             |                |                                        |                |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 513-17                                          |       |                  |                  |             | 282             | 72            |                | =                                      |                |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| x \$1-45                                        |       |                  |                  | W           | 1225            | ۶             |                | •                                      | 4              | <br>     |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |       |                  |                  |             |                 |               |                |                                        |                |          |          |           |   | _        | -        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |       |                  |                  |             |                 |               |                |                                        |                |          |          |           |   | <u> </u> |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |       |                  |                  | _           |                 |               |                | _                                      |                |          | _        |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |       |                  |                  |             |                 |               | $\vdash$       |                                        |                | -        | -        |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |       |                  | /                |             |                 |               | -              | H                                      |                | _        | L        | ┡         | ┝ | ┢        | 卜        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sampled by:                                     | `     | ( <sub>R</sub> ) | Received         |             | 7               | 1             | _              |                                        | Time           |          |          |           | Ļ | Remarks  | ks       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| (Signature) MM M CE                             |       |                  | /<br>L           |             | 1               | G             | <del>  `</del> | 5                                      | 4,10           |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reliability 6 16-15                             | が記    |                  | Received by      | W.          | 2               | E             | _              | ////////////////////////////////////// | )215           |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Relinquished by                                 | Time  |                  | Received by:     | у:          |                 | ;             | Date           | - <del>T</del>                         | Time           |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1                                               |       | 10               | 2                |             |                 |               | 7              | 3                                      | Time           |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Relinquished by:                                |       |                  | Received by:     | 17          | 223             | H             | <u></u>        | <u></u>                                | 350            |          |          |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |       | -                |                  | I           | (               | l             | ľ              |                                        |                |          | ŀ        |           |   |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

E 9 4 W P

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380

PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

CLEARFIELD GW GAUGING

Project Number:

[none]

Reported:

Collector:

or: CLIENT

09/02/15 11:15

Number of Containers:

16

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID    | Laboratory ID | Matrix | Sample Type | Date Sampled   | Date Received  |
|--------------|---------------|--------|-------------|----------------|----------------|
| SB-19 @ 3.5' | 5H24074-01    | Solid  | Grab        | 08/21/15 10:50 | 08/24/15 17:55 |
| SB-20 @ 3.5' | 5H24074-02    | Solid  | Grab        | 08/21/15 10:35 | 08/24/15 17:55 |
| SB-21 @ 6'   | 5H24074-03    | Solid  | Grab        | 08/21/15 12:15 | 08/24/15 17:55 |
| SB-22 @ 6'   | 5H24074-04    | Solid  | Grab        | 08/21/15 12:00 | 08/24/15 17:55 |

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAT

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

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.

Page 1 of 9



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

Project:

[none]

CLIENT

CLEARFIELD GW GAUGING

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

Project Manager:

Jed Hill

Number of Containers:

09/02/15 11:15

Client Sample ID: SB-19 @ 3.5'

16

**Date/Time Sampled:** 08/21/15 10:50

Laboratory Sample ID:

5H24074-01 (Solid/Grab)

|                                   |                |       |        |           |                         |                 | ,            |      |
|-----------------------------------|----------------|-------|--------|-----------|-------------------------|-----------------|--------------|------|
| Analyte                           | Result         | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
| Volatile Organic Compounds by EP/ | A Method 8260B |       |        |           |                         |                 |              | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0037        |       | 0.0037 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | < 0.0037       |       | 0.0037 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Benzene                           | < 0.0015       |       | 0.0015 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0037       |       | 0.0037 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | < 0.0037       |       | 0.0037 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | < 0.0074       |       | 0.0074 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0037       |       | 0.0037 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0037       |       | 0.0037 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0037       |       | 0.0037 | mg/kg dry | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 89 %  | 70     | -130      | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 124 % | 70     | -130      | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 108 % | 70     | -130      | 08/29/15 16:34          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | s by SM/EPA Me | thods |        |           |                         |                 |              |      |
| % Solids                          | 88.1           |       | 0.100  | %         | 08/25/15 14:15          | SM 2540<br>G-97 | arr          |      |

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

CLEARFIELD GW GAUGING

Project Number: none

Reported:

Collector:

CLIENT

09/02/15 11:15

16

Number of Containers:

Client Sample ID: SB-20 @ 3.5'

**Date/Time Sampled:** 08/21/15 10:35

**Laboratory Sample ID:** 

5H24074-02 (Solid/Grab)

| Analyte                           | Result          | MDL   | RL     | Units     | Date / Time<br>Analyzed | Method          | *Analyst | Note |
|-----------------------------------|-----------------|-------|--------|-----------|-------------------------|-----------------|----------|------|
| Volatile Organic Compounds by EP. | A Method 8260B  |       |        |           |                         |                 |          | 9c   |
| 1,3,5-Trimethylbenzene            | <0.0040         |       | 0.0040 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| 1,2,4-Trimethylbenzene            | < 0.0040        |       | 0.0040 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Benzene                           | < 0.0016        |       | 0.0016 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Toluene                           | < 0.0040        |       | 0.0040 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Ethylbenzene                      | < 0.0040        |       | 0.0040 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Xylenes (total)                   | <0.0081         |       | 0.0081 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Isopropylbenzene                  | < 0.0040        |       | 0.0040 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Methyl tert-butyl ether           | < 0.0040        |       | 0.0040 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Naphthalene                       | < 0.0040        |       | 0.0040 | mg/kg dry | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Surrogate: 4-Bromofluorobenzene   |                 | 91 %  | 70     | -130      | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Surrogate: 1,2-Dichloroethane-d4  |                 | 129 % | 70     | -130      | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Surrogate: Fluorobenzene          |                 | 107 % | 70     | -130      | 08/29/15 17:06          | EPA 8260B       | wlm      |      |
| Conventional Chemistry Parameter  | s by SM/EPA Met | hods  |        |           |                         |                 |          | ···- |
| % Solids                          | 80.0            |       | 0.100  | %         | 08/25/15 14:15          | SM 2540<br>G-97 | arr      |      |

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

CLEARFIELD GW GAUGING

Project Number:

[none]

Reported:

Collector:

CLIENT

09/02/15 11:15

Number of Containers: 16

Client Sample ID: SB-21 @ 6'

**Date/Time Sampled:** 08/21/15 12:15

Laboratory Sample ID:

5H24074-03 (Solid/Grab)

| Analyte                           | Result         | MDL      | RL     | Units     | Date / Time<br>Analyzed | Method          | *<br>Analyst | Note |
|-----------------------------------|----------------|----------|--------|-----------|-------------------------|-----------------|--------------|------|
| Volatile Organic Compounds by EPA | A Method 8260B |          |        |           |                         |                 |              | 9¢   |
| 1,3,5-Trimethylbenzene            | <0.0038        | <u> </u> | 0.0038 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| 1,2,4-Trimethylbenzene            | < 0.0038       |          | 0.0038 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Benzene                           | < 0.0015       |          | 0.0015 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Toluene                           | < 0.0038       |          | 0.0038 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Ethylbenzene                      | < 0.0038       |          | 0.0038 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Xylenes (total)                   | < 0.0077       |          | 0.0077 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Isopropylbenzene                  | < 0.0038       |          | 0.0038 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Methyl tert-butyl ether           | < 0.0038       |          | 0.0038 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Naphthalene                       | < 0.0038       |          | 0.0038 | mg/kg dry | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |                | 78 %     | 70     | -130      | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |                | 119 %    | 70     | -130      | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Surrogate: Fluorobenzene          |                | 108 %    | 70     | -130      | 08/29/15 17:38          | EPA 8260B       | wlm          |      |
| Conventional Chemistry Parameters | by SM/EPA Me   | ethods   |        |           |                         |                 |              |      |
| % Solids                          | 87.6           |          | 0.100  | %         | 08/25/15 14:15          | SM 2540<br>G-97 | arr          |      |

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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

CLEARFIELD GW GAUGING

Project Number:

[none]

Reported:

Collector:

CLIENT

09/02/15 11:15

Number of Containers:

16

Client Sample ID: SB-22 @ 6'

**Date/Time Sampled:** 08/21/15 12:00

Laboratory Sample ID:

5H24074-04 (Solid/Grab)

|                                   |              |       |        |           | Date / Time    |                 |         |      |
|-----------------------------------|--------------|-------|--------|-----------|----------------|-----------------|---------|------|
| Analyte                           | Result       | MDL   | RL     | Units     | Analyzed       | Method          | Analyst | Note |
|                                   |              |       |        |           |                |                 |         | •    |
| Volatile Organic Compounds by EPA | Method 8260B |       |        |           |                |                 |         |      |
| 1,3,5-Trimethylbenzene            | < 0.0054     |       | 0.0054 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| 1,2,4-Trimethylbenzene            | < 0.0054     |       | 0.0054 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Benzene                           | < 0.0022     |       | 0.0022 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Toluene                           | < 0.0054     |       | 0.0054 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Ethylbenzene                      | < 0.0054     |       | 0.0054 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Xylenes (total)                   | < 0.0109     |       | 0.0109 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Isopropylbenzene                  | < 0.0054     |       | 0.0054 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Methyl tert-butyl ether           | < 0.0054     |       | 0.0054 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Naphthalene                       | < 0.0054     |       | 0.0054 | mg/kg dry | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 90 %  | 70     | 130       | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 132 % | 70     | 130       | 08/29/15 18:10 | EPA 8260B       | wlm     | 2n   |
| Surrogate: Fluorobenzene          |              | 109 % | 70     | 130       | 08/29/15 18:10 | EPA 8260B       | wlm     |      |
| Conventional Chemistry Parameters | by SM/EPA Me | thods |        |           |                |                 |         |      |
| % Solids                          | 89.5         |       | 0.100  | %         | 08/25/15 14:15 | SM 2540<br>G-97 | arr     |      |

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.

Project:

CLEARFIELD GW GAUGING

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Callagton

Collector: CLIENT

none

09/02/15 11:15

Project Manager:

Jed Hill

Number of Containers:

16

#### Notes

2n The noted surrogate value is not within the indicated range, results are considered to be estimated.

9c Vial contained more than the EPA recommended amount of soil.

#### Definitions

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

Represents "less than" - indicates that the result was less than the reporting limit.

Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any

reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

Fairway Laboratories, Inc.

MDL

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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

CLEARFIELD GW GAUGING

Project Number: [none] Collector:

Reported:

CLIENT

09/02/15 11:15

Number of Containers: 16

#### Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request on the invoice date. payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment,

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

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# Please print. See back of COC for instructions/terms and conditions. REQUEST FOR ANALYSIS

LABORATORIES Environmental Laboratory

2019 9th Ave. P.O. Box 1925

Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791

Client Page #

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |           | ( ) L |          | 10 1  | 2        | P             | 1410        |                 |                    | ŀ             |       |              |                                                |                               |
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| Work Order #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |           |       |          | . "   | •        | PÁDEP?        | PÁ          | z               | Received on ice? Y | Received      |       | oad<br>16823 | 2022 Axemann Road<br>Bellefonte, PA 16         | Address: _2                   |
| LAB USE ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | Requested |       | Analyses |       | Ö        | Reportable to | Repo        | · · ·           |                    | <del></del>   | ŭ     | ociate       | Client Name: Letterle & Associates             | lient Name                    |

| * Comments: | * DEVIATION PRESENT:  © No Ice © Not at Proper Temperature © Wrong Container © Missing Information:                                                 | 24) | >       |                          | COC#                       | COC/Labels on bottles agree? 4 ***                 |         | Received on ICE?                                            | Date/Time of this check: 8246 1920 Client: | Receiver: 0                              | SOP FLI0601-002       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|--------------------------|----------------------------|----------------------------------------------------|---------|-------------------------------------------------------------|--------------------------------------------|------------------------------------------|-----------------------|
|             | ENT:<br>perature<br>on:                                                                                                                             |     |         | Poly<br>Non-<br>Pres.    |                            | agree?                                             | 15      | .×                                                          | . S. J.                                    |                                          |                       |
|             | 0000                                                                                                                                                |     |         | Poly<br>H2SO4            |                            |                                                    | Intact? | ample I                                                     | Z,                                         | •                                        |                       |
|             |                                                                                                                                                     |     |         | Foly<br>HNO3             |                            | Con                                                |         | [emper:                                                     | 19xx                                       |                                          | Revision 19           |
|             | CLIENT C Y By Whom:                                                                                                                                 |     |         | Amber<br>H2SO4           | Nun                        | ect conta                                          | 4       | ture wł                                                     | Client                                     | 0                                        |                       |
|             | CLIENT CALLED: YES () By Whom:                                                                                                                      |     |         | Amber<br>Non-<br>Pres.   | ober and                   | ainers fo                                          |         | ıen deli                                                    |                                            | Thain o                                  |                       |
|             | LED:                                                                                                                                                |     |         | Poly<br>NaOH             | Type o                     | r all the                                          |         | vered to                                                    | 20 de                                      | f Cust                                   |                       |
|             | Date:                                                                                                                                               | +   | D. A.F. | VOCS<br>(Head<br>space?) | Number and Type of BOTTLES | analysis                                           |         | the Lal                                                     | H. Je                                      | ody Re                                   | Date                  |
|             |                                                                                                                                                     |     | X 20h   | Other *                  | LES                        | Correct containers for all the analysis requested? |         | * Sample Temperature when delivered to the Lab: Acceptable? | latter & Assoc                             | Chain of Custody Receiving Document Page | Date: August 12, 2015 |
|             | CLIENT RESI<br>Proceed with a<br>Will Resample<br>Provided Infor<br>No Response; I<br>Client Contact                                                |     |         | Properly Preserved  *    |                            | * ×                                                |         | ıble?                                                       | /                                          | 14                                       | •                     |
|             | CLIENT RESPONSE: Proceed with analysis; Provided Information Provided Information No Response; Proceed Client Contact:                              |     |         | Bacti                    |                            | Matrix:                                            |         | □ * or I                                                    |                                            | וּק                                      |                       |
|             | CLIENT RESPONSE: Proceed with analysis; qualify data () Will Resample Provided Information () No Response; Proceed and qualified () Client Contact: |     |         |                          | Comments                   | <u>Soled</u>                                       |         | * or In cool down process? 🔲 *                              | #24074<br>1                                | ₩                                        | Page of               |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number:

[none]

Reported:

Collector: LC

05/13/15 11:50

Number of Containers: 20

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Sample Type | Date Sampled   | Date Received  |
|-----------|---------------|--------|-------------|----------------|----------------|
| MW-1      | 5E04068-01    | Water  | Grab        | 05/04/15 09:18 | 05/04/15 17:45 |
| MW-1A     | 5E04068-02    | Water  | Grab        | 05/04/15 11:30 | 05/04/15 17:45 |
| MW-2      | 5E04068-03    | Water  | Grab        | 05/04/15 09:51 | 05/04/15 17:45 |
| MW-2A     | 5E04068-04    | Water  | Grab        | 05/04/15 11:24 | 05/04/15 17:45 |
| MW-28     | 5E04068-05    | Water  | Grab        | 05/04/15 10:23 | 05/04/15 17:45 |
| MW-31     | 5E04068-06    | Water  | Grab        | 05/04/15 10:40 | 05/04/15 17:45 |
| MW-32     | 5E04068-07    | Water  | Grab        | 05/04/15 10:56 | 05/04/15 17:45 |
| MW-34     | 5E04068-08    | Water  | Grab        | 05/04/15 11:12 | 05/04/15 17:45 |
| MW-35     | 5E04068-09    | Water  | Grab        | 05/04/15 10:05 | 05/04/15 17:45 |
| MW-36     | 5E04068-10    | Water  | Grab        | 05/04/15 09:36 | 05/04/15 17:45 |

Fairway Laboratories, Inc.

Reviewed and Submitted by:

カノアエ

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

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.

Page 1 of 15



# 2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306

NELAP: PA 07-062, VA 460212

89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number:

[none]

Reported:

Collector:

LC

05/13/15 11:50

Number of Containers:

20

Client Sample ID: MW-1

**Date/Time Sampled:** 05/04/15 09:18

**Laboratory Sample ID:** 

5E04068-01 (Water/Grab)

|                                   | 5t           | Maron  | זמ   | T Inita | Date / Time    | Mathad    | *<br>A nolvet | Note |
|-----------------------------------|--------------|--------|------|---------|----------------|-----------|---------------|------|
| Analyte                           | Result       | MDL    | RL   | Units   | Analyzed       | Method    | Analyst       | Note |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |         |                |           |               |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mte           |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mte           |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mtc           |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mte           |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mte           |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mte           |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mtc           |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mte           |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l    | 05/05/15 16:09 | EPA 8260B | mtc           |      |
| Surrogate: 4-Bromofluorobenzene   |              | 99.1 % | 70-  | 130     | 05/05/15 16:09 | EPA 8260B | mtc           |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 106 %  | 70-  | 130     | 05/05/15 16:09 | EPA 8260B | mtc           |      |
| Surrogate: Fluorobenzene          |              | 106%   | 70   | 130     | 05/05/15 16:09 | EPA 8260B | mtc           |      |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number:

[none]

Reported:

Collector: LC

05/13/15 11:50

Number of Containers:

20

Client Sample ID: MW-1A

**Date/Time Sampled:** 05/04/15 11:30

**Laboratory Sample ID:** 

5E04068-02 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   | · · · · ·    |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                | ·         |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mte     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mte     |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mte     |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mte     |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mte     |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/05/15 16:35 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 98.8 % | 70-  | 130   | 05/05/15 16:35 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 108 %  | 70-  | 130   | 05/05/15 16:35 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          |              | 105 %  | 70   | 130   | 05/05/15 16:35 | EPA 8260B | mte     |      |



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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

Project:

[none]

LC

UNITED CLEARFIELD GW G

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

05/13/15 11:50

Project Manager:

Jed Hill

Number of Containers: 20

Client Sample ID: MW-2

**Date/Time Sampled:** 05/04/15 09:51

Laboratory Sample ID:

5E04068-03 (Water/Grab)

|                                   |              |       |      |       | Date / Time    |                  | *       |      |
|-----------------------------------|--------------|-------|------|-------|----------------|------------------|---------|------|
| Analyte                           | Result       | MDL   | RL   | Units | Analyzed       | Method           | Analyst | Note |
|                                   |              |       |      |       |                |                  |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |      |       |                | 18 1 1 1 1 1 1 1 |         |      |
| 1,3,5-Trimethylbenzene            | <1,00        |       | 1.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00 | ug/I  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Benzene                           | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Ethylbenzene                      | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Xylenes (total)                   | <2.00        |       | 2.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Methyl tert-butyl ether           | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Surrogate: 4-Bromofluorobenzene   | 9            | 7.0 % | 70-  | 130   | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 110%  | 70-  | 30    | 05/05/15 18:11 | EPA 8260B        | wlm     |      |
| Surrogate: Fluorobenzene          |              | 105 % | 70   | 130   | 05/05/15 18:11 | EPA 8260B        | wlm     |      |



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number:

none

Reported:

Collector:

LC

05/13/15 11:50

Number of Containers:

20

Client Sample ID: MW-2A

**Date/Time Sampled:** 05/04/15 11:24

**Laboratory Sample ID:** 

5E04068-04 (Water/Grab)

|                                   |              |       |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|-------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL   | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |       |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |      |       | ···            |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:39 | EPA 8260B | wim     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00 | ug/I  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Benzene                           | <1.00        |       | 1.00 | ug/I  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Ethylbenzene                      | <1,00        |       | 1.00 | ug/I  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Xylenes (total)                   | <2.00        |       | 2.00 | ug/l  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Methyl tert-butyl ether           | <1.00        |       | 1.00 | ug/I  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/l  | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Surrogate: 4-Bromofluorobenzene   | 9            | 7.1 % | 70-  | 130   | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 111 % | 70-  | 130   | 05/05/15 18:39 | EPA 8260B | wlm     |      |
| Surrogate: Fluorobenzene          | i            | 106%  | 70-  | 130   | 05/05/15 18:39 | EPA 8260B | wlm     |      |

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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Letterle & Associates Inc.

Project:

UNITED CLEARFIELD GW G

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

[none] LC

05/13/15 11:50

Project Manager:

Jed Hill

Number of Containers: 20

Client Sample ID: MW-28

**Date/Time Sampled:** 05/04/15 10:23

**Laboratory Sample ID:** 

5E04068-05 (Water/Grab)

|                                   |              |        |        |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|--------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL     | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |        |        |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |        |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | 5.76         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| 1,2,4-Trimethylbenzene            | 18.9         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Benzene                           | 42.0         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Toluene                           | 5.10         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Ethylbenzene                      | 12.9         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Xylenes (total)                   | 44.6         |        | 2.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Isopropylbenzene                  | 1.58         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Methyl tert-butyl ether           | 2.55         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Naphthalene                       | 4.34         |        | 1.00   | ug/l  | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Surrogate: 4-Bromofluorobenzene   | 98           | 98.7 % |        | '30   | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 1.           | 10%    | 70-130 |       | 05/05/15 17:15 | EPA 8260B | wlm     |      |
| Surrogate: Fluorobenzene          | 1            | 06 %   | 70-1   | 30    | 05/05/15 17:15 | EPA 8260B | wlm     |      |



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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number:

none

Reported:

Collector: LC 05/13/15 11:50

Number of Containers:

20

Client Sample ID: MW-31

**Date/Time Sampled:** 05/04/15 10:40

Laboratory Sample ID:

5E04068-06 (Water/Grab)

|                                   |              |       | ·- ·         |       | Date / Time    | 36.4.3    | *       | S    |
|-----------------------------------|--------------|-------|--------------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL   | RL           | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |       |              |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |              | _     |                |           |         |      |
| 1,3,5-Trimethylbenzene            | 48.3         |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mte     |      |
| 1,2,4-Trimethylbenzene            | 154          |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mtc     |      |
| Benzene                           | 157          |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mte     |      |
| Toluene                           | 71.7         |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | 36.8         |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mtc     |      |
| Xylenes (total)                   | 422          |       | 20.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <10.0        |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | <10.0        |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mte     |      |
| Naphthalene                       | 38.4         |       | 10.0         | ug/l  | 05/05/15 15:16 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene   | 96           | 8.5 % | 70-          | 30    | 05/05/15 15:16 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 1            | 07 %  | 70-          | 130   | 05/05/15 15:16 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 1            | 06 %  | <i>70-</i> 3 | 130   | 05/05/15 15:16 | EPA 8260B | mtc     |      |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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Letterle & Associates Inc.

Project:

UNITED CLEARFIELD GW G

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

Project Manager:

Jed Hill

Number of Containers: 20 05/13/15 11:50

Client Sample ID: MW-32

[none]

LC

**Date/Time Sampled:** 05/04/15 10:56

**Laboratory Sample ID:** 

5E04068-07 (Water/Grab)

|                                   |              | **     |      |       | · · · · · · · · · · · · · · · · · · · |           |              |      |
|-----------------------------------|--------------|--------|------|-------|---------------------------------------|-----------|--------------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed               | Method    | *<br>Analyst | Note |
|                                   |              |        |      |       |                                       |           |              |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                                       |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/1  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 97.7 % | 70-  | 130   | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 113 %  |      | 130   | 05/05/15 19:07                        | EPA 8260B | wlm          |      |
| Surrogate: Fluorobenzene          |              | 106 %  | 70-  | 130   | 05/05/15 19:07                        | EPA 8260B | wlm          |      |



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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number:

[none]

Reported:

Collector:

LC

05/13/15 11:50

Number of Containers:

20

Client Sample ID: MW-34

**Date/Time Sampled:** 05/04/15 11:12

**Laboratory Sample ID:** 

5E04068-08 (Water/Grab)

|                                   |             |       |      |       | D / /T'                 |           |              |      |
|-----------------------------------|-------------|-------|------|-------|-------------------------|-----------|--------------|------|
| Analyte                           | Result      | MDL   | RL.  | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
| Valadia Occasio Communida ka EDA  | M.d J 92/00 |       |      |       |                         |           |              |      |
| Volatile Organic Compounds by EPA |             |       | 1.00 |       | 0.710.717.7.10.7.5      |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00       |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| 1,2,4-Trimethylbenzene            | <1.00       |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Benzene                           | <1.00       |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Toluene                           | <1.00       |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Ethylbenzene                      | <1.00       |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Xylenes (total)                   | < 2.00      |       | 2.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Isopropylbenzene                  | <1.00       |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Methyl tert-butyl ether           | 4.54        |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Naphthalene                       | <1.00       |       | 1.00 | ug/l  | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   | 90          | 5.5 % | 70-1 | 30    | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  | ì           | 11 %  | 70-1 | 30    | 05/05/15 19:36          | EPA 8260B | wlm          |      |
| Surrogate: Fluorobenzene          | I           | 04 %  | 70-1 | 30    | 05/05/15 19:36          | EPA 8260B | wlm          |      |



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number:

[none]

Reported:

Collector:

LC

05/13/15 11:50

Number of Containers: 20

Client Sample ID: MW-35

**Date/Time Sampled:** 05/04/15 10:05

Laboratory Sample ID:

5E04068-09 (Water/Grab)

| Analyte                           | Result       | MDL    | RL        | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|-----------|-------|-------------------------|-----------|--------------|------|
|                                   |              |        |           |       |                         |           |              |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |           |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Benzene                           | <1.00        |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Toluene                           | <1.00        |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Ethylbenzene                      | <1.00        |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          | •    |
| Xylenes (total)                   | < 2.00       |        | 2.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Isopropylbenzene                  | <1:00        |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Methyl tert-butyl ether           | 1.53         |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Naphthalene                       | <1.00        |        | 1.00      | ug/l  | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 97.3 % | 70        | 130   | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 113 %  | 70-       | 130   | 05/05/15 20:32          | EPA 8260B | wlm          |      |
| Surrogate: Fluorobenzene          |              | 107%   | <i>70</i> | 130   | 05/05/15 20:32          | EPA 8260B | wlm          |      |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380

PaDEP: PA 41-04684



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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number: none

Reported:

Collector:

LC

05/13/15 11:50

Number of Containers:

State Certifications: MD 275, WV 364

20

Client Sample ID: MW-36

**Date/Time Sampled:** 05/04/15 09:36

**Laboratory Sample ID:** 

5E04068-10 (Water/Grab)

| Analyte                           | Result MDL   | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|------|-------|-------------------------|-----------|--------------|------|
|                                   |              |      |       |                         |           |              |      |
| Volatile Organic Compounds by EPA | Method 8260B |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        | 1.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mte          |      |
| 1,2,4-Trimethylbenzene            | <1.00        | 1.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mtc          |      |
| Benzene                           | <1.00        | 1.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mte          |      |
| Toluene                           | <1.00        | 1.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        | 1.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mte          |      |
| Xylenes (total)                   | <2.00        | 2.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        | 1.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | 4,23         | 1.00 | ug/I  | 05/06/15 17:00          | EPA 8260B | mte          |      |
| Naphthalene                       | <1.00        | 1.00 | ug/l  | 05/06/15 17:00          | EPA 8260B | mte          |      |
| Surrogate: 4-Bromofluorobenzene   | 97.5 %       | 70-  | 130   | 05/06/15 17:00          | EPA 8260B | mte          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 109 %        | 70   | 130   | 05/06/15 17:00          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          | 106%         | 70-  | 130   | 05/06/15 17:00          | EPA 8260B | mte          |      |

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analyticalreport.



# 2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306

(570) 494-6380 NELAP: PA 07-062, VA 460212

PaDEP: PA 41-04684

89 Kristi Road

Pennsdale, PA 17756



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.

Project:

none

LC

UNITED CLEARFIELD GW G

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

05/13/15 11:50

Project Manager:

Jed Hill

Number of Containers: 20

### **Definitions**

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

Represents "less than" - indicates that the result was less than the reporting limit.

Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any

reported result values that are less than the RL are considered estimated values.

RLReporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

Fairway Laboratories, Inc.

MDL

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD GW G

Project Number: none

Collector:

Reported:

LC

05/13/15 11:50

Number of Containers: 20

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

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# Please print. See back of COC for instructions/terms and conditions. REQUEST FOR ANALYSIS CHAIN OF CUSTODY/ FAIRWAY LABORATORIES Environmental Laboratory Phone: (814) 946-4306 Fax: (814) 946-8791 Altoona, PA 16602 2019 9th Ave. P.O. Box 1925

Phone #: Contact:

Fax#:

Address: 2022 Axemann Road Client Name: Letterle & Associates Quote/PO#: Project Name: 12 tes Cleaner Rush TAT subject to pre-approval and surcharge Date Required: TAT: Normal 🗓 Rush 🗆 Sample Description/Location FEBRUARE STATES Relinquished by: Sampled by: Relinquished by: 17 000 -MW. 814-355-2410 814-355-2241 Bellefonte, PA 16823 1 H L.V . MW - 28 スタージ Jech MW-32 MW-34 MW-35 MW-36 E د\_ 457 Malley 514)15 Date Date Date GRAB Time Time 13, 7 Time Sample Temp: Received on ice? Composite Received by Received by: / , 4 Received by: Start Time 4 Composite **GRAB** Z Time . \_ 9:36 PWSID # 0.00 1:12 Š ر نک 2 Reportable to Solid PADEP? Matrix Yes 🛚 Water STYS 5/oulls Other Date Date Date # of Containers Time Time Time 13:20 Time ) niended ريح **Analyses Requested** Remarks Client Page # \_\_\_\_\_ of \_\_\_ Work Order,# Tracking# FLI Page # Attach # Bottle Type/Comments SE04068 LAB USE ONLY

G

(Signature)

By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File

Canary - FLI Copy

Pink - Customer Receipt Copy

00 C

78

|                                                                                                                                                             |                                                                                     |                                                                                                                |                                                    |                                                   |              |                                |                |              |                                        |                      | * Comments:                                                                              | *         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------|--------------------------------|----------------|--------------|----------------------------------------|----------------------|------------------------------------------------------------------------------------------|-----------|
| CLIENT RESPONSE:  Proceed with analysis; qualify data ()  Will Resample ()  Provided Information ()  No Response; Proceed and qualified ()  Client Contact: | NT RESPONSE: ed with analysis; Resample ded Information ssponse; Proceed t Contact: | CLIENT RESPONSE Proceed with analysis; Will Resample Provided Information No Response; Proceed Client Contact: |                                                    | Date:                                             | S ()         | CLIENT CALLED: YES () By Whom: | By Whom:       |              |                                        | SENT: mperatur don:  | DEVIATION PRESENT: No Ice Not at Proper Temperature Wrong Container Missing Information: | Ø Ø Ø Ø * |
|                                                                                                                                                             |                                                                                     |                                                                                                                |                                                    |                                                   |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             |                                                                                     | -                                                                                                              |                                                    |                                                   |              |                                |                | -            |                                        |                      | /0                                                                                       |           |
|                                                                                                                                                             |                                                                                     |                                                                                                                |                                                    |                                                   |              |                                |                |              |                                        |                      | l de                                                                                     |           |
|                                                                                                                                                             |                                                                                     | <del> </del> -                                                                                                 |                                                    |                                                   |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             | 2, 2<br>3, 2<br>4, 2<br>3, 2<br>3, 2<br>3, 2<br>3, 2<br>3, 2<br>3, 2<br>3, 2<br>3   |                                                                                                                |                                                    |                                                   |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             |                                                                                     |                                                                                                                |                                                    |                                                   |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             | 01.<br>01.<br>03.4                                                                  |                                                                                                                |                                                    |                                                   |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             | (X)                                                                                 |                                                                                                                |                                                    |                                                   |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             |                                                                                     |                                                                                                                |                                                    |                                                   |              | į                              |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             |                                                                                     | (                                                                                                              |                                                    | シナイ                                               |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             |                                                                                     | - <del>-</del>                                                                                                 | *                                                  | <i>j</i>                                          |              |                                |                |              |                                        |                      |                                                                                          |           |
|                                                                                                                                                             | Васп                                                                                | Properly<br>Preserved                                                                                          | Other                                              | VOCS<br>(Head<br>space?)                          | Poly<br>NaOH | Amber<br>Non-<br>Pres.         | Amber<br>H2SO4 | Poly<br>HNO3 | Poly<br>H2SO4                          | Poly<br>Non-<br>Pres |                                                                                          | Ì         |
| Comments                                                                                                                                                    | ;<br>                                                                               |                                                                                                                |                                                    | Number and Type of BOTTLES                        | Type o       | nber and                       | Nui            |              |                                        |                      | COC#                                                                                     | 8         |
|                                                                                                                                                             | Matrix:                                                                             | * M₂                                                                                                           | Correct containers for all the analysis requested? | analysis r                                        | π all the    | ainers fo                      | rect cont      | Con          | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | agree?               | COC/Labels on bottles agree? — *                                                         | CO        |
|                                                                                                                                                             |                                                                                     |                                                                                                                |                                                    |                                                   |              |                                | 1              |              | Intact?                                | 1                    | Custody Seals?                                                                           | Cus       |
| □ * or In cool down process? □ *                                                                                                                            | □ * or I                                                                            | Acceptable? $+$ [                                                                                              | 1                                                  | ] * Sample Temperature when delivered to the Lab: | vered to     | ıen deli                       | ature wl       | Гешрег       | Sample [                               | *                    | Received on ICE?                                                                         | Rec       |
| E04068                                                                                                                                                      | Lab#S                                                                               | Lal                                                                                                            |                                                    | K                                                 | abberte      |                                | 19. 10 Client: | 19:10        | 128                                    | 5-5                  | Date/Time of this check: 5-475                                                           | Dat       |
| ん                                                                                                                                                           | ļΥ                                                                                  | ħ                                                                                                              | Chain of Custody Receiving Document Page           | ody Kec                                           | f Cust       | hain o                         |                |              | 1                                      |                      | Receiver:                                                                                | Rec       |
| Page of                                                                                                                                                     |                                                                                     | •                                                                                                              | Date: June 18, 2014                                | Date                                              | )<br>}       | •                              |                | Revision 17  |                                        |                      | SOP FLI0601-002                                                                          | SOP       |

Page 15 of 15



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380

PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

Number of Containers:

[none]

Reported:

Collector:

CLIENT 38

06/05/15 11:03

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Sample Type | Date Sampled   | Date Received  |
|-----------|---------------|--------|-------------|----------------|----------------|
| MW-1      | 5E27047-01    | Water  | Grab        | 05/26/15 10:00 | 05/27/15 13:00 |
| MW-1A     | 5E27047-02    | Water  | Grab        | 05/26/15 12:41 | 05/27/15 13:00 |
| MW-2      | 5E27047-03    | Water  | Grab        | 05/26/15 10:30 | 05/27/15 13:00 |
| MW-2A     | 5E27047-04    | Water  | Grab        | 05/26/15 13:01 | 05/27/15 13:00 |
| MW-3      | 5E27047-05    | Water  | Grab        | 05/26/15 13:57 | 05/27/15 13:00 |
| MW-4      | 5E27047-06    | Water  | Grab        | 05/26/15 14:45 | 05/27/15 13:00 |
| MW-10     | 5E27047-07    | Water  | Grab        | 05/26/15 15:07 | 05/27/15 13:00 |
| MW-14     | 5E27047-08    | Water  | Grab        | 05/26/15 09:44 | 05/27/15 13:00 |
| MW-15     | 5E27047-09    | Water  | Grab        | 05/26/15 14:27 | 05/27/15 13:00 |
| MW-21     | 5E27047-10    | Water  | Grab        | 05/26/15 13:25 | 05/27/15 13:00 |
| MW-28     | 5E27047-11    | Water  | Grab        | 05/26/15 10:59 | 05/27/15 13:00 |
| MW-29     | 5E27047-12    | Water  | Grab        | 05/26/15 13:38 | 05/27/15 13:00 |
| MW-30     | 5E27047-13    | Water  | Grab        | 05/26/15 14:12 | 05/27/15 13:00 |
| MW-31     | 5E27047-14    | Water  | Grab        | 05/26/15 11:23 | 05/27/15 13:00 |
| MW-32     | 5E27047-15    | Water  | Grab        | 05/26/15 11:37 | 05/27/15 13:00 |
| MW-33     | 5E27047-16    | Water  | Grab        | 05/26/15 11:56 | 05/27/15 13:00 |
| MW-34     | 5E27047-17    | Water  | Grab        | 05/26/15 12:23 | 05/27/15 13:00 |
| MW-35     | 5E27047-18    | Water  | Grab        | 05/26/15 10:44 | 05/27/15 13:00 |

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mat

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

UR CLEARFIELD Project:

Project Number:

[none]

CLIENT

Reported: 06/05/15 11:03

38

Number of Containers:

Collector:

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Sample Type | Date Sampled   | Date Received  |
|-----------|---------------|--------|-------------|----------------|----------------|
| MW-36     | 5E27047-19    | Water  | Grab        | 05/26/15 10:16 | 05/27/15 13:00 |



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: none

Reported:

Collector: CLIENT 06/05/15 11:03

Number of Containers:

38

Client Sample ID: MW-1

**Date/Time Sampled:** 05/26/15 10:00

Laboratory Sample ID:

5E27047-01 (Water/Grab)

|                                   |              |       |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|-------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL   | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |       |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B | _     |      |       |                | .,.       |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Benzene                           | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Xylenes (total)                   | <2.00        |       | 2.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Methyl tert-butyl ether           | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/l  | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene   | 90           | 5.0 % | 70-2 | 30    | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 90           | 5.3 % | 70-  | 130   | 05/28/15 19:29 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 90           | 5.5 % | 70-1 | 130   | 05/28/15 19:29 | EPA 8260B | mtc     |      |



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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

06/05/15 11:03

Number of Containers: 38

Client Sample ID: MW-1A

**Date/Time Sampled:** 05/26/15 12:41

Laboratory Sample ID:

5E27047-02 (Water/Grab)

| <b>A</b> 1.                       | 72 . 14      | MDI    | DT   | TT:4- | Date / Time    | Madhad    | *       | Mata |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | . RL | Units | Analyzed       | Method    | Analyst | Note |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mte     | -    |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mte     |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <1,00        |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | 2.16         |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/28/15 20:46 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 05.9 % | 70-  | 130   | 05/28/15 20:46 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 05.4%  | 70-  | 130   | 05/28/15 20:46 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 9            | 06.8 % | 70-1 | 130   | 05/28/15 20:46 | EPA 8260B | mtc     |      |

Fairway Laboratories, Inc.

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Laboratory Sample ID:

89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

none

Reported:

Collector:

CLIENT

06/05/15 11:03

38

Number of Containers:

**Date/Time Sampled:** 05/26/15 10:30

Client Sample ID: MW-2

5E27047-03 (Water/Grab)

|                                  |             |         |      |       | Date / Time    |           | *       |      |
|----------------------------------|-------------|---------|------|-------|----------------|-----------|---------|------|
| Analyte                          | Res         | ult MDL | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                  |             |         |      |       |                |           |         |      |
| Volatile Organic Compounds by F  | PA Method 8 | 260B    |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene           | <1.         | .00     | 1.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | ıntc    |      |
| 1,2,4-Trimethylbenzene           | <1.         | .00     | 1.00 | ug/I  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Benzene                          | <1.         | .00     | 1.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Toluene                          | <1.         | .00     | 1.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Ethylbenzene                     | <1.         | .00     | 1.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Xylenes (total)                  | <2.         | .00     | 2.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | mte     |      |
| Isopropylbenzene                 | <1.         | .00     | 1.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Methyl tert-butyl ether          | 1.          | .41     | 1.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Naphthalene                      | <1.         | .00     | 1.00 | ug/l  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene  |             | 95.7 %  | 70   | -130  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4 |             | 96.2 %  | 70   | -130  | 05/28/15 15:24 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene         |             | 97.5 %  | 70   | -130  | 05/28/15 15:24 | EPA 8260B | mtc     |      |



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State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector: CLIENT 06/05/15 11:03

Number of Containers:

38

Client Sample ID: MW-2A

**Date/Time Sampled:** 05/26/15 13:01

**Laboratory Sample ID:** 

5E27047-04 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 96.5 % | 70-  | 130   | 05/28/15 16:02          | EPA 8260B | mte          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 97.3 % | 70-  | 130   | 05/28/15 16:02          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          |              | 96.9 % | 70-  | 130   | 05/28/15 16:02          | EPA 8260B | mte          |      |

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: Collector:

none

CLIENT

Reported: 06/05/15 11:03

Number of Containers:

38

Client Sample ID: MW-3

**Date/Time Sampled:** 05/26/15 13:57

**Laboratory Sample ID:** 

5E27047-05 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B | ·      |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:40 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene            | 9.50         |        | 1.00 | ug/I  | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:40 | EPA 8260B | mtc     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Ethylbenzene                      | 4.03         |        | 1.00 | ug/I  | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Xylenes (total)                   | 3.74         |        | 2.00 | ug/l  | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Isopropylbenzene                  | 1.56         |        | 1.00 | ug/l  | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | 7.32         |        | 1.00 | ug/l  | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Naphthalene                       | 1.14         |        | 1.00 | ug/I  | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene   | ·            | 97.9%  | 70-  | 130   | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 96.6 % | 70-  | 130   | 05/28/15 16:40 | EPA 8260B | mte     |      |
| Surrogate: Fluorobenzene          |              | 96.9 % | 70-  | 130   | 05/28/15 16:40 | EPA 8260B | mte     |      |



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Project Manager: Jed Hill Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

06/05/15 11:03

Number of Containers: 38

Client Sample ID: MW-4

**Date/Time Sampled:** 05/26/15 14:45

**Laboratory Sample ID:** 

5E27047-06 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              | **** |
| 1,3,5-Trimethylbenzene            | <1,00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mte          |      |
| 1,2,4-Trimethylbenzene            | <1,00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mtc          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mte          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mte          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mte          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:17          | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 95.6 % | 70-  | 130   | 05/28/15 17:17          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 95.4%  | 70-  | 130   | 05/28/15 17:17          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          |              | 95.9 % | 70   | 130   | 05/28/15 17:17          | EPA 8260B | mte          |      |

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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

06/05/15 11:03

38

Number of Containers:

Client Sample ID: MW-10

**Date/Time Sampled:** 05/26/15 15:07

**Laboratory Sample ID:** 5E27047-07 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| Methyl tert-butyl ether           | 3.85         |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/28/15 17:55          | EPA 8260B | mte          |      |
| Surrogate: 4-Bromofluorobenzene   | 9            | 05.9 % | 70-  | 130   | 05/28/15 17:55          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 4.6 %  | 70   | 130   | 05/28/15 17:55          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          | 9            | 06.0 % | 70-  | 130   | 05/28/15 17:55          | EPA 8260B | mtc          |      |



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Project Manager:

UR CLEARFIELD

Project Number:

[none]

38

Reported:

Collector:

Project:

**CLIENT** 

06/05/15 11:03

Jed Hill

Number of Containers:

Client Sample ID: MW-14

**Date/Time Sampled:** 05/26/15 09:44

**Laboratory Sample ID:** 

5E27047-08 (Water/Grab)

|                                   |              |        |      |       |                |           |         | - " - |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|-------|
|                                   |              |        |      |       | Date / Time    |           | *       |       |
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note  |
|                                   |              |        |      |       |                |           |         |       |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         |       |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mte     |       |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Methyl tert-butyl ether           | 1.37         |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Surrogate: 4-Bromofluorobenzene   | <u> </u>     | 95.8 % | 70-1 | 30    | 05/28/15 18:32 | EPA 8260B | mte     |       |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 96.1%  | 70-3 | 30    | 05/28/15 18:32 | EPA 8260B | mtc     |       |
| Surrogate: Fluorobenzene          | 9            | 95.6 % | 70-J | 30    | 05/28/15 18:32 | EPA 8260B | mte     |       |



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PaDEP: PA 41-04684



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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

06/05/15 11:03

Number of Containers:

State Certifications: MD 275, WV 364

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Client Sample ID: MW-15

Laboratory Sample ID:

**Date/Time Sampled:** 05/26/15 14:27

5E27047-09 (Water/Grab)

|                                   |              |        |      |       |                         |           | <u> </u>     |      |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
| Analyte                           | Result       | MDL    | RL_  | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|                                   |              |        |      |       | **                      |           |              |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mte          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          | •    |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | 1.69         |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 96.0 % | 70-  | 130   | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 96.3 % | 70-  | 130   | 05/28/15 19:10          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          |              | 97.3 % | 70-  | 130   | 05/28/15 19:10          | EPA 8260B | mtc          |      |

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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

06/05/15 11:03

Number of Containers:

Client Sample ID: MW-21

**Date/Time Sampled:** 05/26/15 13:25

Laboratory Sample ID:

5E27047-10 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |              |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|--------------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note         |
| Volatile Organic Compounds by EPA | Method 8760R |        |      |       |                |           |         |              |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     | · <u>-</u> · |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Surrogate: 4-Bromofluorobenzene   |              | 95.5 % | 70   | 130   | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Surrogate: 1,2-Dichloroethane-d4  |              | 95.7 % | 70-  | 130   | 05/28/15 19:48 | EPA 8260B | mte     |              |
| Surrogate: Fluorobenzene          |              | 96.2 % | 70-  | 130   | 05/28/15 19:48 | EPA 8260B | mte     |              |



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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector: CLIENT 06/05/15 11:03

Number of Containers:

38

Client Sample ID: MW-28

**Date/Time Sampled:** 05/26/15 10:59

**Laboratory Sample ID:** 

5E27047-11 (Water/Grab)

|                                   |              |        |           |       | Date / Time    |           |              |      |
|-----------------------------------|--------------|--------|-----------|-------|----------------|-----------|--------------|------|
| Analyte                           | Result       | MDL    | RL        | Units | Analyzed       | Method    | *<br>Analyst | Note |
|                                   |              |        |           | ·     |                |           |              |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |           |       |                | ·         |              |      |
| 1,3,5-Trimethylbenzene            | 2.35         |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | 3.83         |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mte          |      |
| Benzene                           | <1.00        |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| Ethylbenzene                      | 2.53         |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mte          |      |
| Xylenes (total)                   | 13.2         |        | 2.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | 4.13         |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mte          |      |
| Naphthalene                       | 1,32         |        | 1.00      | ug/l  | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 96.1 % | 70        | 30    | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | ;            | 95.2 % | <i>70</i> | 130   | 05/28/15 21:05 | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          | <u>.</u>     | 96.6 % | 70-       | 130   | 05/28/15 21:05 | EPA 8260B | mtc          |      |

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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

06/05/15 11:03

Number of Containers: 38

Client Sample ID: MW-29

**Date/Time Sampled:** 05/26/15 13:38

**Laboratory Sample ID:** 

5E27047-12 (Water/Grab)

| Analyte                           | Result       | MDL   | RL    | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|-------|-------|-------|-------------------------|-----------|--------------|------|
|                                   |              |       | •     |       |                         |           | ·            |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |       | ,.,   |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Benzene                           | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Toluene                           | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Ethylbenzene                      | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Xylenes (total)                   | < 2.00       |       | 2.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Methyl tert-butyl ether           | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Naphthalene                       | <1.00        |       | 1.00  | ug/l  | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Surrogate: 4-Bromofluorobenzene   | 95           | 5.6%  | 70-   | 130   | 05/29/15 02:29          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 93           | 3.4 % | 70-   | 130   | 05/29/15 02:29          | EPA 8260B | mte          |      |
| Surrogate: Fluorobenzene          | 95           | 5.6%  | 70-   | 130   | 05/29/15 02:29          | EPA 8260B | mtc          |      |
| SIM . OCUMO: 1 1MOI OCCINEDITO    |              | ,     | , , , |       |                         |           |              |      |



# 2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306

NELAP: PA 07-062, VA 460212

89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

none

Reported:

Collector:

**CLIENT** 

06/05/15 11:03

Number of Containers:

Client Sample ID: MW-30

**Date/Time Sampled:** 05/26/15 14:12

**Laboratory Sample ID:** 

5E27047-13 (Water/Grab)

|                                   |              |       |      |       | Date / Time    |           | **      |      |
|-----------------------------------|--------------|-------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL   | RL   | Units | Analyzed       | Method    | Analyst | Note |
| Volatile Organic Compounds by EPA | Method 8260B |       |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mte     |      |
| 1,2,4-Trimethylbenzene            | 22.9         |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mte     |      |
| Benzene                           | 17.9         |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mtc     |      |
| Xylenes (total)                   | <2.00        |       | 2.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mte     |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | 5.50         |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/l  | 05/29/15 03:08 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene   | 91           | 6.6 % | 70-1 | 30    | 05/29/15 03:08 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 9.           | 3.4 % | 70-7 | 30    | 05/29/15 03:08 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 9.           | 3.9 % | 70-7 | 30    | 05/29/15 03:08 | EPA 8260B | mtc     |      |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector: CLIENT 06/05/15 11:03

Number of Containers: 38

Client Sample ID: MW-31

**Date/Time Sampled:** 05/26/15 11:23

**Laboratory Sample ID:** 

5E27047-14 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | 5.62         |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mte     |      |
| 1,2,4-Trimethylbenzene            | 34.1         |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mte     |      |
| Benzene                           | 8.17         |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mte     |      |
| Ethylbenzene                      | 11.3         |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mtc     |      |
| Xylenes (total)                   | 26.8         |        | 2.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | 1.00         |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mtc     |      |
| Methyl tert-butyl ether           | 3.91         |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mte     |      |
| Naphthalene                       | 6.56         |        | 1.00 | ug/l  | 05/29/15 03:45 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 97.0%  | 70   | 130   | 05/29/15 03:45 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 94.0%  | 70-  | 130   | 05/29/15 03:45 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          |              | 93.9 % | 70   | 130   | 05/29/15 03:45 | EPA 8260B | mte     |      |



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: [none]

**CLIENT** 

Reported:

Collector:

06/05/15 11:03

Number of Containers:

38

Client Sample ID: MW-32

**Date/Time Sampled:** 05/26/15 11:37

**Laboratory Sample ID:** 

5E27047-15 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |          |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|----------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note     |
|                                   |              |        |      |       |                | •         |         |          |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         | <u> </u> |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mte     |          |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mte     |          |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mte     |          |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/I  | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Methyl tert-butyl ether           | <1,00        |        | 1.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Naphthalene                       | <1,00        |        | 1.00 | ug/l  | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Surrogate: 4-Bromofluorobenzene   | <u> </u>     | 06.0 % | 70-  | 130   | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 93.8 % | 70-  | 130   | 05/29/15 04:23 | EPA 8260B | mtc     |          |
| Surrogate: Fluorobenzene          | ì            | 94.4%  | 70-  | 130   | 05/29/15 04:23 | EPA 8260B | mtc     |          |

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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

06/05/15 11:03

38

Number of Containers:

Client Sample ID: MW-33

**Date/Time Sampled:** 05/26/15 11:56

Laboratory Sample ID:

5E27047-16 (Water/Grab)

| Analyte                           | Result       | MDL   | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|-------|------|-------|-------------------------|-----------|--------------|------|
|                                   |              |       |      |       |                         |           | ·            |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mte          |      |
| Benzene                           | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mte          |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | <2.00        |       | 2.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/l  | 05/29/15 05:00          | EPA 8260B | mte          |      |
| Surrogate: 4-Bromofluorobenzene   | 93           | 5.7 % | 70-2 | 130   | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 9.           | 3.0 % | 70-2 | 130   | 05/29/15 05:00          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          | 93           | 3.8 % | 70-3 | 130   | 05/29/15 05:00          | EPA 8260B | mtc          |      |
|                                   |              |       |      |       |                         |           |              |      |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: none

Reported:

Collector: **CLIENT**  06/05/15 11:03

38

Number of Containers:

Client Sample ID: MW-34

**Date/Time Sampled:** 05/26/15 12:23

**Laboratory Sample ID:** 

5E27047-17 (Water/Grab)

|                                   |              |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result MDL   | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        | 1.00 | ug/I  | 05/29/15 05:38 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene            | <1.00        | 1.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mte     |      |
| Benzene                           | <1.00        | 1.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        | 1.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mte     |      |
| Ethylbenzene                      | <1.00        | 1.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mte     |      |
| Xylenes (total)                   | <2.00        | 2.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <1.00        | 1.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mtc *   |      |
| Methyl tert-butyl ether           | 1.75         | 1.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        | 1.00 | ug/l  | 05/29/15 05:38 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene   | 96.3 %       | 70-  | 130   | 05/29/15 05:38 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 92.9 %       | 70-  | 130   | 05/29/15 05:38 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 94.3 %       | 70-  | 130   | 05/29/15 05:38 | EPA 8260B | mtc     |      |



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Letterle & Associates Inc.

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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

06/05/15 11:03

Number of Containers: 38

Client Sample ID: MW-35

**Date/Time Sampled:** 05/26/15 10:44

Laboratory Sample ID:

5E27047-18 (Water/Grab)

|                                          |              |        |      |       | Date / Time    |           | *       |      |
|------------------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                                  | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                          |              |        |      |       |                |           |         |      |
| <b>Volatile Organic Compounds by EPA</b> | Method 8260B |        |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene                   | <1.00        |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene                   | <1.00        |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| Benzene                                  | <1.00        |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| Toluene                                  | <1.00        |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| Ethylbenzene                             | <1.00        |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mte     |      |
| Xylenes (total)                          | <2.00        |        | 2.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| Isopropylbenzene                         | <1.00        |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| Methyl tert-butyl ether                  | 3.95         |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| Naphthalene                              | <1.00        |        | 1.00 | ug/l  | 05/29/15 06:16 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene          |              | 95.7 % | 70-1 | 30    | 05/29/15 06:16 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4         | :            | 92.7 % | 70-1 | 30    | 05/29/15 06:16 | EPA 8260B | mte     |      |
| Surrogate: Fluorobenzene                 |              | 92.7 % | 70-1 | 130   | 05/29/15 06:16 | EPA 8260B | mtc     |      |

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PaDEP: PA 41-04684



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager: Jed Hill Project:

UR CLEARFIELD

Project Number:

none

Reported:

Collector: **CLIENT** 

06/05/15 11:03

Number of Containers:

State Certifications: MD 275, WV 364

38

Client Sample ID: MW-36

**Date/Time Sampled:** 05/26/15 10:16

Laboratory Sample ID:

5E27047-19 (Water/Grab)

|                                   |              |      |       | D / T'               |             |              |      |
|-----------------------------------|--------------|------|-------|----------------------|-------------|--------------|------|
| Analyte                           | Result MDI   | , RL | Units | Date / Time Analyzed | Method      | *<br>Analyst | Note |
| Analyte                           | Kesuit 1910. |      | Omes  | 7 Hary 200           | - Intelliou | - Itialy 50  | 1100 |
| Volatile Organic Compounds by EPA | Method 8260B |      |       |                      |             |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mte          |      |
| 1,2,4-Trimethylbenzene            | <1.00        | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mte          |      |
| Веплепе                           | <1.00        | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mtc          |      |
| Toluene                           | <1.00        | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mte          |      |
| Ethylbenzene                      | <1.00        | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mtc          |      |
| Xylenes (total)                   | <2.00        | 2.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mtc          |      |
| Isopropylbenzene                  | <1.00        | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mtc          |      |
| Methyl tert-butyl ether           | 4.45         | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mtc          | •    |
| Naphthalene                       | <1.00        | 1.00 | ug/l  | 05/29/15 06:53       | EPA 8260B   | mte          |      |
| Surrogate: 4-Bromofluorobenzene   | 96.5 %       | 70-  | 130   | 05/29/15 06:53       | EPA 8260B   | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 92.8 %       | 70-  | 130   | 05/29/15 06:53       | EPA 8260B   | mte          |      |
| Surrogate: Fluorobenzene          | 92.6 %       | 70-  | 130   | 05/29/15 06:53       | EPA 8260B   | mtc          |      |

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# 2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306

NELAP: PA 07-062, VA 460212

89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



www.fairwaylaboratories.com

State Certifications: MD 275, WV 364

UR CLEARFIELD Project:

Project Number: none

Collector: CLIENT

Reported: 06/05/15 11:03

Project Manager:

Bellefonte PA, 16823

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Jed Hill

Number of Containers: 38

### **Definitions**

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

Represents "less than" - indicates that the result was less than the reporting limit.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any

reported result values that are less than the RL are considered estimated values.

RLReporting Limit - is the lowest or minimum level at which the analyte can be quantified.

Indicates a calculated result. Calculations use results from other analyses performed under accredited methods. [CALC]



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State Certifications: MD 275, WV 364

Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UR CLEARFIELD

Project Number: none

Collector:

CLIENT

Reported: 06/05/15 11:03

Number of Containers:

38

### Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

# REQUEST FOR ANALYSIS

LABORATORIES Environmental Laboratory

2019 9th Ave. P.O. Box 1925

Client Page #\_

of }

Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791

| Please print. See back of COC for instructions/terms and conditions. |                       |                        |                |                  | ]              | Fax: ()            | (814) 946-8791 | 91      | I AR ISE ONLY        |
|----------------------------------------------------------------------|-----------------------|------------------------|----------------|------------------|----------------|--------------------|----------------|---------|----------------------|
| Client Name: Letterle & Associates                                   |                       |                        | Repor          | Reportable to    |                | Analyses Requested | Requested      |         | LAB USE ONLY         |
| Address: 2022 Axemann Road                                           | — Received on ice?    | ice? Y N               | - PAI          | PADEP?           |                |                    |                |         | Work Order #         |
| Bellefonte, PA 16823                                                 |                       |                        | <u></u>        | Yes !            |                |                    |                |         | 5627047              |
| Contact: 370 HELL                                                    | Sample Temp:          | Ą.                     | # # # #        | İ                |                |                    |                |         | Attach#              |
| _                                                                    |                       |                        |                |                  | ouz            |                    |                |         |                      |
| 814-3                                                                |                       |                        | 4              | Matrix           | G              |                    |                |         | FLI Page #           |
| Project Name: VK Chartined                                           |                       | GRAB                   | Т              | 5                | 4.             |                    |                |         | ر<br>ا<br>ا          |
| Quote/PO#:                                                           |                       | -07-                   | ·7             | rs               | D <sub>r</sub> | _                  |                |         | ĺ                    |
| TAT: Normal 🗗 Rush 🗆                                                 | Composite             | ite Composite          | osite          | ine              | }              |                    |                |         | Hacking #            |
| Rush TAT subject to pre-approval and surcharge.                      | mpe<br>5              |                        |                |                  | 0              | ·*                 |                |         |                      |
| <b>—</b>                                                             | Co                    |                        |                | ner              | æ              |                    |                |         |                      |
| Sample Description/Location                                          | Start   S<br>Date   T | Start End<br>Time Date | End<br>Time So | Wa<br>Otl<br># o | ,              |                    |                |         | Bottle Type/Comments |
| 1-117/                                                               | -                     | 36.5                   | 1000           | <del>كر</del>    | 7              |                    |                |         |                      |
| MV-1A                                                                |                       |                        | 1114           |                  |                |                    |                |         |                      |
| L-MW                                                                 |                       |                        | 0%0            |                  |                |                    |                |         |                      |
| Mr-24                                                                |                       |                        | 1301           |                  |                |                    |                |         |                      |
| NW-3                                                                 |                       |                        | 135)           |                  | _              |                    |                |         |                      |
| h-MM                                                                 |                       |                        | 1445           |                  |                |                    |                |         |                      |
| MW-10                                                                |                       |                        | (25)           |                  |                |                    |                |         | -                    |
| 1444-14                                                              |                       |                        | 14.60          |                  |                |                    |                |         |                      |
| 16 - 15 N                                                            |                       |                        | \ch            |                  |                |                    |                |         |                      |
| 100-31                                                               |                       |                        | 13851          |                  |                |                    |                |         |                      |
| 84-MW                                                                |                       | 4                      | 1089           | V                | 4              |                    |                |         |                      |
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| Dane<br>Jane                                                         |                       | Received by:           |                | Date             | lime           |                    |                |         |                      |
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- E D & J F U F U N

# REQUEST FOR ANALYSIS Please print. See back of COC for instructions/terms and conditions CHAIN OF CUSTODY/

FAIRWAY LABORATORIES Environmental Laboratory

2019 9th Ave. P.O. Box 1925 Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791 Client Page # 3 of 3

| collutions.                                     |                    |                  |               | l             | 1            |            |           |            |                                        |
|-------------------------------------------------|--------------------|------------------|---------------|---------------|--------------|------------|-----------|------------|----------------------------------------|
| Client Name: Letterle & Associates              |                    |                  | Reportable to | ile to        |              | Analyses R | Requested | LA         | LAB USE ONLY                           |
| 022 Axemann Ro                                  | Received on ice?   | Y                | PADEP?        | P?            |              |            |           | Work       | Work Order #                           |
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| 814-35                                          | 1                  |                  |               |               |              |            |           | ··-        |                                        |
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| Mr. 31                                          |                    |                  | 163           |               |              |            |           |            |                                        |
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| Mr-344                                          |                    | 5                | 1323<br>1248  |               |              |            |           |            |                                        |
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| CLIENT RESPONSE:                         | RESP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CLIENT RESPONSE:      |                                                    | ļ                          | LLED:        | CLIENT CALLED: | CLIE           |              |               | ESENT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DEVIATION PRESENT:                                                                                                              | * DEV                                   |
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| Comments                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 1                                                  | Number and Type of BOTTLES | I Type o     | nber an        | Nu             |              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                 | COC#                                    |
| TE TE TE TE TE TE TE TE TE TE TE TE TE T | Matrix: warer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | _                     | Correct containers for all the analysis requested? | analysis                   | or all the   | ainers fo      | rect cont      | Cor          |               | s agree?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | COC/Labels on bottles agree? 🖳 🗆 *                                                                                              | COC/Le                                  |
|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                    |                            |              |                |                |              | Intact?       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Seals?                                                                                                                          | Custody Seals?                          |
| * or In cool down process? 🔲 *           | ] * or ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Acceptable? $\neq$ [  |                                                    | the Lab                    | vered to     | hen deli       | ature w        | Гешрег       | Sample [      | _     _     _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _ | Received on ICE? \( \sum \) * Sample Temperature when delivered to the Lab: \( \frac{\partial \cdot \neq \text{L}}{\text{L}} \) | Receive                                 |
| 5627047                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Lab#                  |                                                    |                            | KITELLO      | <u></u>        | Client:        |              | 13:50         | ck: <b>5/27</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date/Time of this check: 5/27                                                                                                   | Date/Tiı                                |
| <del>1</del>                             | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Chain of Custody Receiving Document 5              | ody Kec                    | of Cust      | hain (         |                |              | 1             | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ;<br> -                                                                                                                         | Receiver:                               |
| Page of                                  | J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7                     | Date: June 18, 2014                                | D <sub>a</sub>             | <b>)</b>     |                |                | Revision 17  |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 601-002                                                                                                                         | SOP FLI0601-002                         |



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

09/24/15 09:30

Number of Containers:

44

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Sample Type | Date Sampled   | Date Received  |
|-----------|---------------|--------|-------------|----------------|----------------|
| MW-1      | 5115032-01    | Water  | Grab        | 09/14/15 11:28 | 09/15/15 13:15 |
| MW-1A     | 5115032-02    | Water  | Grab        | 09/14/15 10:52 | 09/15/15 13:15 |
| MW-2      | 5115032-03    | Water  | Grab        | 09/14/15 10:05 | 09/15/15 13:15 |
| MW-2A     | 5I15032-04    | Water  | Grab        | 09/14/15 10:40 | 09/15/15 13:15 |
| MW-3      | 5I15032-05    | Water  | Grab        | 09/14/15 12:30 | 09/15/15 13:15 |
| MW-4      | 5115032-06    | Water  | Grab        | 09/14/15 11:35 | 09/15/15 13:15 |
| MW-5      | 5115032-07    | Water  | Grab        | 09/14/15 13:35 | 09/15/15 13:15 |
| MW-7      | 5115032-08    | Water  | Grab        | 09/14/15 13:54 | 09/15/15 13:15 |
| MW-10     | 5115032-09    | Water  | Grab        | 09/14/15 14:08 | 09/15/15 13:15 |
| MW-12     | 5115032-10    | Water  | Grab        | 09/14/15 12:45 | 09/15/15 13:15 |
| MW-14     | 5115032-11    | Water  | Grab        | 09/14/15 11:10 | 09/15/15 13:15 |
| MW-15     | 5115032-12    | Water  | Grab        | 09/14/15 11:55 | 09/15/15 13:15 |
| MW-21     | 5115032-13    | Water  | Grab        | 09/14/15 13:02 | 09/15/15 13:15 |
| MW-28     | 5115032-14    | Water  | Grab        | 09/14/15 08:35 | 09/15/15 13:15 |
| MW-29     | 5115032-15    | Water  | Grab        | 09/14/15 13:18 | 09/15/15 13:15 |
| MW-30     | 5I15032-16    | Water  | Grab        | 09/14/15 12:15 | 09/15/15 13:15 |
| MW-31     | 5115032-17    | Water  | Grab        | 09/14/15 08:56 | 09/15/15 13:15 |
| MW-32     | 5115032-18    | Water  | Grab        | 09/14/15 09:35 | 09/15/15 13:15 |

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MOT

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.



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Letterle & Associates Inc.

Project:

UNITED CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

[none] Reported:

Collector:

Project Manager:

Bellefonte PA, 16823

Jed Hill

Number of Containers:

CLIENT

09/24/15 09:30

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Sample Type | Date Sampled   | Date Received  |
|-----------|---------------|--------|-------------|----------------|----------------|
| MW-33     | 5115032-19    | Water  | Grab        | 09/14/15 09:15 | 09/15/15 13:15 |
| MW-34     | 5115032-20    | Water  | Grab        | 09/14/15 10:35 | 09/15/15 13:15 |
| MW-35     | 5115032-21    | Water  | Grab        | 09/14/15 09:50 | 09/15/15 13:15 |
| MW-36     | 5115032-22    | Water  | Grab        | 09/14/15 10:20 | 09/15/15 13:15 |



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Jed Hill

Bellefonte PA, 16823

Project Manager:

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector:

CLIENT

09/24/15 09:30

44

Number of Containers:

Client Sample ID: MW-1

**Date/Time Sampled:** 09/14/15 11:28

**Laboratory Sample ID:** 

5I15032-01 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mte          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mte          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mte          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mte          |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:30          | EPA 8260B | mte          |      |
| Surrogate: 4-Bromofluorobenzene   | · ·          | 93.2 % | 70-  | 130   | 09/15/15 20:30          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 87.6%  | 70   | 130   | 09/15/15 20:30          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          |              | 87.5 % | 70-  | 130   | 09/15/15 20:30          | EPA 8260B | mtc          |      |



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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

09/24/15 09:30

Number of Containers:

44

Client Sample ID: MW-1A

**Date/Time Sampled:** 09/14/15 10:52

**Laboratory Sample ID:** 

5I15032-02 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mte     |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mtc     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mtc     |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mte     |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | 4.17         |        | 1,00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mte     |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:08 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene   | 9            | 94.3 % | 70-  | 130   | 09/15/15 21:08 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 8            | 89.1 % | 70-2 | 30    | 09/15/15 21:08 | EPA 8260B | mte     |      |
| Surrogate: Fluorobenzene          | 8            | 87.6%  | 70-1 | 130   | 09/15/15 21:08 | EPA 8260B | mte     |      |

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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

09/24/15 09:30

Number of Containers:

44

Client Sample ID: MW-2

**Date/Time Sampled:** 09/14/15 10:05

**Laboratory Sample ID:** 

5I15032-03 (Water/Grab)

| ,                                 |              |        |      |       |                |           |         |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
|                                   |              |        |      |       | Date / Time    |           | *       |      |
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
| <del>-</del> "                    |              |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mtc     |      |
| Benzene                           | <1.00        |        | 1.00 | ug/1  | 09/15/15 21:45 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mte     |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mtc     |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 21:45 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 93.6 % | 70   | 130   | 09/15/15 21:45 | EPA 8260B | mte     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 88.5 % | 70   | 130   | 09/15/15 21:45 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          |              | 86.6 % | 70   | 130   | 09/15/15 21:45 | EPA 8260B | mtc     |      |



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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector: **CLIENT**  09/24/15 09:30

Number of Containers: 44

Client Sample ID: MW-2A

**Date/Time Sampled:** 09/14/15 10:40

**Laboratory Sample ID:** 

5115032-04 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        | •      | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mtc     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mtc     |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mtc     |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:22 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 94.9 % | 70-1 | 130   | 09/15/15 22:22 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 90.6 % | 70-1 | 30    | 09/15/15 22:22 | EPA 8260B | mte     |      |
| Surrogate: Fluorobenzene          |              | 87.1 % | 70-1 | 30    | 09/15/15 22:22 | EPA 8260B | mtc     |      |

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Bellefonte PA, 16823

Project Manager:

Project:

UNITED CLEARFIELD

**Date/Time Sampled:** 09/14/15 12:30

Project Number:

none

Reported:

Collector:

CLIENT

09/24/15 09:30

44

Number of Containers:

Client Sample ID: MW-3

Jed Hill

**Laboratory Sample ID:** 

5115032-05 (Water/Grab)

| Analyte                           | Result I     | MDL | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|-----|------|-------|-------------------------|-----------|--------------|------|
| Volatile Organic Compounds by EPA | Method 8260B |     |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Benzene                           | <1.00        |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | < 2.00       |     | 2.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | 2.82         |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |     | 1.00 | ug/l  | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   | 95.          | 2%  | 70-1 | 30    | 09/15/15 23:00          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 89.          | 6%  | 70-1 | 30    | 09/15/15 23:00          | EPA 8260B | mte          |      |
| Surrogate: Fluorobenzene          | 86.          | 4%  | 70-1 | 30    | 09/15/15 23:00          | EPA 8260B | mtc          |      |



Pennsdale, PA 17756 (570) 494-6380

89 Kristi Road

PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

Project:

UNITED CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

[none] CLIENT

09/24/15 09:30

Project Manager:

Jed Hill

Number of Containers: 44

Client Sample ID: MW-4

**Date/Time Sampled:** 09/14/15 11:35

**Laboratory Sample ID:** 

5I15032-06 (Water/Grab)

|                                   |              |      |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL  | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |      |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |      |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | mte     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | mtc     |      |
| Benzene                           | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | mtc     |      |
| Toluene                           | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | ıntc    |      |
| Xylenes (total)                   | < 2.00       |      | 2.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | mtc     |      |
| Methyl tert-butyl ether           | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | ıntc    |      |
| Naphthalene                       | <1.00        |      | 1.00 | ug/l  | 09/15/15 23:38 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene   | 93           | .3 % | 70-1 | 130   | 09/15/15 23:38 | EPA 8260B | mte     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 92           | .8%  | 70-1 | 130   | 09/15/15 23:38 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 87           | .7%  | 70-3 | 130   | 09/15/15 23:38 | EPA 8260B | mtc     |      |

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical



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PaDEP: PA 41-04684



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

09/24/15 09:30

Number of Containers:

State Certifications: MD 275, WV 364

44

Client Sample ID: MW-5

**Date/Time Sampled:** 09/14/15 13:35

**Laboratory Sample ID:** 

5115032-07 (Water/Grab)

|                                   | D. N         | MDY   | fa   | Ilmita | Date / Time    | Mothod    | *<br>Apolyst | Note |
|-----------------------------------|--------------|-------|------|--------|----------------|-----------|--------------|------|
| Analyte                           | Result       | MDL   | RL   | Units  | Analyzed       | Method    | Analyst      | Note |
| Volatile Organic Compounds by EPA | Method 8260B |       |      |        |                |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mtc          | •    |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mtc          |      |
| Benzene                           | <1.00        |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mtc          |      |
| Xylenes (total)                   | <2.00        |       | 2.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mte          |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | 3.06         |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/l   | 09/16/15 00:15 | EPA 8260B | mte          |      |
| Surrogate: 4-Bromofluorobenzene   | 94           | 1.7%  | 70-  | 30     | 09/16/15 00:15 | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 92           | 2.6%  | 70-  | 130    | 09/16/15 00:15 | EPA 8260B | mte          |      |
| Surrogate: Fluorobenzene          | 86           | 5.7 % | 70   | 130    | 09/16/15 00:15 | EPA 8260B | mtc          |      |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

Project:

UNITED CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

09/24/15 09:30

Project Manager:

Jed Hill

Number of Containers: 4

Client Sample ID: MW-7

[none]

**CLIENT** 

**Date/Time Sampled:** 09/14/15 13:54

**Laboratory Sample ID:** 

5115032-08 (Water/Grab)

| Analyte                           | Result        | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|---------------|--------|------|-------|-------------------------|-----------|--------------|------|
|                                   | 75 / 105 / O  |        |      |       |                         |           |              |      |
| Volatile Organic Compounds by EPA | Niethod 8260B |        |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | 11,3          |        | 1.00 | ug/l  | 09/15/15 18:56          | EPA 8260B | mte          |      |
| 1,2,4-Trimethylbenzene            | 27.9          |        | 1.00 | ug/I  | 09/15/15 18:56          | EPA 8260B | mte          |      |
| Toluene                           | 2.33          |        | 1.00 | ug/l  | 09/15/15 18:56          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | 2.41          |        | 1.00 | ug/I  | 09/15/15 18:56          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | 4.18          |        | 2.00 | ug/l  | 09/15/15 18:56          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | 10.4          |        | 1.00 | ug/l  | 09/15/15 18:56          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | 2.30          |        | 1.00 | ug/I  | 09/15/15 18:56          | EPA 8260B | mtc          |      |
| Naphthalene                       | 11.8          |        | 1.00 | ug/l  | 09/15/15 18:56          | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   |               | 97.4 % | 70-  | 130   | 09/15/15 18:56          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  |               | 88.5 % | 70-  | 130   | 09/15/15 18:56          | EPA 8260B | mte          |      |
| Surrogate: Fluorobenzene          |               | 89.4 % | 70-  | 130   | 09/15/15 18:56          | EPA 8260B | mtc          |      |
|                                   |               |        |      |       |                         |           |              |      |



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89 Kristi Road Pennsdale, PA 17756 (570) 494-6380

PaDEP: PA 41-04684



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Project:

UNITED CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

**CLIENT** 

[none]

09/24/15 09:30

Project Manager:

Jed Hill

Number of Containers:

Client Sample ID: MW-10

44

**Date/Time Sampled:** 09/14/15 14:08

**Laboratory Sample ID:** 

5I15032-09 (Water/Grab)

|                                   |              | •      |      |       |                         |           |              |      |  |  |  |  |  |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|--|--|--|--|--|
| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |  |  |  |  |  |
|                                   | <u> </u>     |        |      |       |                         |           |              |      |  |  |  |  |  |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |  |  |  |  |  |
| 1,3,5-Trimethylbenzene            | <1.00        | •      | 1.00 | ug/1  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mtc          |      |  |  |  |  |  |
| Methyl tert-butyl ether           | 4.98         |        | 1.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Surrogate: 4-Bromofluorobenzene   |              | 95.4 % | 70-  | 130   | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4  |              | 89.7%  | 70-  | 130   | 09/15/15 19:33          | EPA 8260B | mte          | -    |  |  |  |  |  |
| Surrogate: Fluorobenzene          |              | 89.5 % | 70-  | 130   | 09/15/15 19:33          | EPA 8260B | mte          |      |  |  |  |  |  |
|                                   |              |        |      |       |                         |           |              |      |  |  |  |  |  |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



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Project:

UNITED CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

tor: CLIENT

[none]

09/24/15 09:30

Project Manager:

Jed Hill

Number of Containers:

03/24/13 03.3

Client Sample ID: MW-12

**Date/Time Sampled:** 09/14/15 12:45

Laboratory Sample ID:

5I15032-10 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
|                                   |              |        |      |       |                         |           | ••           |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 95.7%  | 70-  | 130   | 09/15/15 20:11          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 89.7 % | 70-  | 130   | 09/15/15 20:11          | EPA 8260B | mte          |      |
| Surrogate: Fluorobenzene          |              | 88.0 % | 70-  | 130   | 09/15/15 20:11          | EPA 8260B | mte          |      |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380

PaDEP: PA 41-04684

FAIRWAY LABORATORIES

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State Certifications: MD 275, WV 364

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Bellefonte PA, 16823

Collector:

**CLIENT** 

09/24/15 09:30

Project Manager:

Jed Hill

Number of Containers:

Client Sample ID: MW-14

Letterle & Associates Inc. 2022 Axemann Road Suite 201

**Date/Time Sampled:** 09/14/15 11:10

Laboratory Sample ID:

5115032-11 (Water/Grab)

| Analyte                           | Result       | MDL    | RĹ   | Units | Date / Time<br>Analyzed     | Method    | *<br>Analyst | Note |  |  |  |
|-----------------------------------|--------------|--------|------|-------|-----------------------------|-----------|--------------|------|--|--|--|
|                                   | -            |        |      |       |                             |           |              |      |  |  |  |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                             |           |              |      |  |  |  |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mte          |      |  |  |  |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:49 <sup>-</sup> | EPA 8260B | mtc          |      |  |  |  |
| Methyl tert-butyl ether           | 1.85         |        | 1.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Surrogate: 4-Bromofluorobenzene   |              | 94.3 % | 70   | 130   | 09/15/15 20:49              | EPA 8260B | mtc          |      |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4  |              | 89.9 % | 70-  | 130   | 09/15/15 20:49              | EPA 8260B | mte          |      |  |  |  |
| Surrogate: Fluorobenzene          |              | 88.2 % | 70   | 130   | 09/15/15 20:49              | EPA 8260B | mte          |      |  |  |  |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Letterle & Associates Inc.

Project:

UNITED CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

Project Manager:

Jed Hill

Number of Containers:

09/24/15 09:30

Client Sample ID: MW-15

**Date/Time Sampled:** 09/14/15 11:55

[none]

**CLIENT** 

**Laboratory Sample ID:** 

5I15032-12 (Water/Grab)

|                                   |              |        |           |         |                |            |         | -             |
|-----------------------------------|--------------|--------|-----------|---------|----------------|------------|---------|---------------|
|                                   | rs. 1,       | MDI    | DI        | TT- 14- | Date / Time    | N 4 - 41 4 | *       | <b>N</b> 1-4- |
| Analyte                           | Result       | MDL    | RL        | Units   | Analyzed       | Method     | Analyst | Note          |
| Volatile Organic Compounds by EPA | Method 8260B |        |           |         | ·              |            |         |               |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mtc     |               |
| Benzene                           | <1.00        |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Toluene                           | <1.00        |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Ethylbenzene                      | <1.00        |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Xylenes (total)                   | <2.00        |        | 2.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Isopropylbenzene                  | <1.00        |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Methyl tert-butyl ether           | 1.39         |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     | •             |
| Naphthalene                       | <1.00        |        | 1.00      | ug/l    | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Surrogate: 4-Bromofluorobenzene   |              | 95.4 % | 70-       | 130     | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Surrogate: 1,2-Dichloroethane-d4  |              | 90.9 % | 70        | 130     | 09/15/15 21:26 | EPA 8260B  | mte     |               |
| Surrogate: Fluorobenzene          |              | 88.6 % | <i>70</i> | 130     | 09/15/15 21:26 | EPA 8260B  | mte     |               |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Project:

UNITED CLEARFIELD

Project Number:

none

Reported:

Collector: **CLIENT**  09/24/15 09:30

44

Number of Containers:

Client Sample ID: MW-21

Jed Hill

**Date/Time Sampled:** 09/14/15 13:02

Laboratory Sample ID:

5115032-13 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |  |  |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|--|--|
|                                   |              |        |      |       |                         |           |              |      |  |  |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |  |  |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| Methyl tert-butyl ether           | 8.11         |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mtc          |      |  |  |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 22:04          | EPA 8260B | mte          |      |  |  |
| Surrogate: 4-Bromofluorobenzene   | 9            | 7.4 %  | 70   | 130   | 09/15/15 22:04          | EPA 8260B | mte          |      |  |  |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 1.8 %  | 70   | 130   | 09/15/15 22:04          | EPA 8260B | mte          |      |  |  |
| Surrogate: Fluorobenzene          | 8            | 88.2 % | 70   | 130   | 09/15/15 22:04          | EPA 8260B | mte          |      |  |  |



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector:

**CLIENT** 

09/24/15 09:30

Number of Containers:

Client Sample ID: MW-28

**Date/Time Sampled:** 09/14/15 08:35

Laboratory Sample ID:

5I15032-14 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <5.00        |        | 5.00 | ug/i  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| 1,2,4-Trimethylbenzene            | <5.00        |        | 5.00 | ug/l  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Benzene                           | < 5.00       |        | 5.00 | ug/1  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Toluene                           | <5.00        |        | 5.00 | ug/l  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Ethylbenzene                      | <5.00        |        | 5.00 | ug/l  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Xylenes (total)                   | <10.0        |        | 10.0 | ug/I  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Isopropylbenzene                  | < 5.00       |        | 5.00 | ug/l  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Methyl tert-butyl ether           | < 5.00       |        | 5.00 | ug/l  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Naphthalene                       | < 5.00       |        | 5.00 | ug/l  | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 96.1 % | 70-  | 130   | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 87.8 % | 70-  | 130   | 09/17/15 09:25 | EPA 8260B | bag     |      |
| Surrogate: Fluorobenzene          |              | 85.2 % | 70-  | 130   | 09/17/15 09:25 | EPA 8260B | bag     |      |

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# 2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306

(570) 494-6380 PaDEP: PA 41-04684 NELAP: PA 07-062, VA 460212

State Certifications: MD 275, WV 364



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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

89 Kristi Road

Pennsdale, PA 17756

none

Reported:

Collector:

**CLIENT** 

09/24/15 09:30

Number of Containers:

44

Client Sample ID: MW-29

**Date/Time Sampled:** 09/14/15 13:18

**Laboratory Sample ID:** 

5115032-15 (Water/Grab)

|                                   |              |       |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|-------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL   | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |       |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mte     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mte     |      |
| Benzene                           | <1.00        |       | 1.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Ethylbenzene                      | <1.00        |       | 1.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mte     |      |
| Xylenes (total)                   | < 2.00       |       | 2.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Methyl tert-butyl ether           | 3.41         |       | 1.00 | ug/l  | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/I  | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Surrogate: 4-Bromofluorobenzene   | . 9          | 6.4 % | 70-1 | 30    | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 1.7%  | 70-1 | 30    | 09/15/15 22:41 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 8            | 7.8 % | 70-1 | 30    | 09/15/15 22:41 | EPA 8260B | mtc     |      |



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Jed Hill

Bellefonte PA, 16823

Project Manager:

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector: **CLIENT**  09/24/15 09:30

Number of Containers:

Client Sample ID: MW-30

**Date/Time Sampled:** 09/14/15 12:15

5115032-16 (Water/Grab) **Laboratory Sample ID:** 

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Not |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|-----|
|                                   |              | ·      |      | •     |                         |           |              |     |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |     |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/I  | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mte          |     |
| Methyl tert-butyl ether           | 4.96         |        | 1.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:18          | EPA 8260B | mte          |     |
| Surrogate: 4-Bromofluorobenzene   |              | 95.7%  | 70   | 130   | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Surrogate: 1,2-Dichloroethane-d4  |              | 93.3 % | 70   | 130   | 09/15/15 23:18          | EPA 8260B | mtc          |     |
| Surrogate: Fluorobenzene          |              | 89.1 % | 70-  | 130   | 09/15/15 23:18          | EPA 8260B | mtc          |     |



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Client Sample ID: MW-31

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

none

Reported:

Collector:

CLIENT

09/24/15 09:30

Number of Containers: 44

**Date/Time Sampled:** 09/14/15 08:56

Laboratory Sample ID:

5I15032-17 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           | <u>:</u>     |      |
| 1,3,5-Trimethylbenzene            | 1.06         |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| 1,2,4-Trimethylbenzene            | 4.60         |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Benzene                           | 17.4         |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | 3.68         |        | 2.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mte          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | 2.18         |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Surrogate: 4-Bromofluorobenzene   | 9            | 06.2 % | 70-1 | 30    | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  | 8            | 86.9 % | 70-l | 30    | 09/17/15 18:54          | EPA 8260B | mtc          |      |
| Surrogate: Fluorobenzene          | 8            | 35.5 % | 70-1 | 30    | 09/17/15 18:54          | EPA 8260B | mtc          |      |

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Letterle & Associates Inc.

2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector: **CLIENT** 

09/24/15 09:30

Number of Containers: 44

Client Sample ID: MW-32

**Date/Time Sampled:** 09/14/15 09:35

**Laboratory Sample ID:** 

5I15032-18 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
|                                   |              |        |      |       |                         |           |              |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      |       |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mte          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | nite         |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mte          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mtc          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mtc          |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mtc          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mtc          |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mte          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/15/15 23:56          | EPA 8260B | mte          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 94.9 % | 70   | 130   | 09/15/15 23:56          | EPA 8260B | mtc          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 93.3 % | 70   | 130   | 09/15/15 23:56          | EPA 8260B | mte          |      |
| Surrogate: Fluorobenzene          |              | 87.6 % | 70   | 130   | 09/15/15 23:56          | EPA 8260B | mtc          |      |

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PaDEP: PA 41-04684

State Certifications: MD 275, WV 364



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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

none

Reported:

Collector:

CLIENT

09/24/15 09:30

Number of Containers: 44

Client Sample ID: MW-33

**Date/Time Sampled:** 09/14/15 09:15

**Laboratory Sample ID:** 

5I15032-19 (Water/Grab)

|                                   |              |        |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|--------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL    | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   | •            |        |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B | ÷      |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mtc     |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| Methyl tert-butyl ether           | <1,00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/16/15 00:34 | EPA 8260B | mte     |      |
| Surrogate: 4-Bromofluorobenzene   |              | 06.1 % | 70-  | 130   | 09/16/15 00:34 | EPA 8260B | mtc     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 4.4 %  | 70   | 130   | 09/16/15 00:34 | EPA 8260B | mtc     |      |
| Surrogate: Fluorobenzene          | 8            | 88.0 % | 70-  | 130   | 09/16/15 00:34 | EPA 8260B | mte     |      |

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Bellefonte PA, 16823

Project Manager: Jed Hill Project Number:

[none]

UNITED CLEARFIELD

Reported:

Collector: CLIENT

Project:

09/24/15 09:30

Number of Containers:

Client Sample ID: MW-34

**Date/Time Sampled:** 09/14/15 10:35

**Laboratory Sample ID:** 

5I15032-20 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|-------|-------------------------|-----------|--------------|------|
|                                   | Total Marcon |        |      |       | -                       |           |              |      |
| Volatile Organic Compounds by EPA |              |        |      |       |                         |           |              | ·    |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/I  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Benzene                           | <1,00        |        | 1.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Xylenes (total)                   | < 2.00       |        | 2.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Methyl tert-butyl ether           | <1.00        |        | 1.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l  | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 94.8 % | 70   | 130   | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 89.9 % | 70   | 130   | 09/16/15 14:28          | EPA 8260B | bag          |      |
| Surrogate: Fluorobenzene          |              | 87.9 % | 70-  | 130   | 09/16/15 14:28          | EPA 8260B | bag          |      |



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Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector: CLIENT 09/24/15 09:30

Number of Containers:

Client Sample ID: MW-35

**Date/Time Sampled:** 09/14/15 09:50

**Laboratory Sample ID:** 

5I15032-21 (Water/Grab)

|                                   |              |       |      |       | Date / Time    |           | *       |      |
|-----------------------------------|--------------|-------|------|-------|----------------|-----------|---------|------|
| Analyte                           | Result       | MDL   | RL   | Units | Analyzed       | Method    | Analyst | Note |
|                                   |              |       |      |       |                |           |         |      |
| Volatile Organic Compounds by EPA | Method 8260B |       |      |       |                |           |         |      |
| 1,3,5-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| 1,2,4-Trimethylbenzene            | <1.00        |       | 1.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Benzene                           | <1.00        |       | 1.00 | ug/[  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Toluene                           | <1.00        |       | 1.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Ethylbenzene                      | <1.00        |       | 1.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Xylenes (total)                   | <2.00        |       | 2.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Isopropylbenzene                  | <1.00        |       | 1.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Methyl tert-butyl ether           | 1.90         |       | 1.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Naphthalene                       | <1.00        |       | 1.00 | ug/l  | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Surrogate: 4-Bromofluorobenzene   | 9            | 4.3 % | 70-1 | 130   | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Surrogate: 1,2-Dichloroethane-d4  | 9            | 0.0%  | 70-1 | 30    | 09/16/15 15:05 | EPA 8260B | bag     |      |
| Surrogate: Fluorobenzene          | 8            | 7.6 % | 70-1 | 130   | 09/16/15 15:05 | EPA 8260B | ba⊈     |      |



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Bellefonte PA, 16823

Project Manager: Jed Hill Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector: **CLIENT**  09/24/15 09:30

Number of Containers:

44

Client Sample ID: MW-36

**Date/Time Sampled:** 09/14/15 10:20

**Laboratory Sample ID:** 

5I15032-22 (Water/Grab)

| Analyte                           | Result       | MDL    | RL   | Units                                 | Date / Time<br>Analyzed | Method    | *<br>Analyst | Note |
|-----------------------------------|--------------|--------|------|---------------------------------------|-------------------------|-----------|--------------|------|
|                                   | -            |        |      | -                                     |                         |           |              |      |
| Volatile Organic Compounds by EPA | Method 8260B |        |      | · · · · · · · · · · · · · · · · · · · |                         |           |              |      |
| 1,3,5-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| 1,2,4-Trimethylbenzene            | <1.00        |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Benzene                           | <1.00        |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Toluene                           | <1.00        |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Ethylbenzene                      | <1.00        |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Xylenes (total)                   | <2.00        |        | 2.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Isopropylbenzene                  | <1.00        |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Methyl tert-butyl ether           | 3.93         |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Naphthalene                       | <1.00        |        | 1.00 | ug/l                                  | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Surrogate: 4-Bromofluorobenzene   |              | 96.5 % | 70-  | 130                                   | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Surrogate: 1,2-Dichloroethane-d4  |              | 91.3 % | 70-  | 130                                   | 09/16/15 15:44          | EPA 8260B | bag          |      |
| Surrogate: Fluorobenzene          |              | 86.9 % | 70-  | 130                                   | 09/16/15 15:44          | EPA 8260B | bag          |      |



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2022 Axemann Road Suite 201

Bellefonte PA, 16823

Project Manager:

Jed Hill

Project:

UNITED CLEARFIELD

Project Number:

[none]

Reported:

Collector: C

Number of Containers:

CLIENT

44

09/24/15 09:30

#### **Definitions**

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

P indicates analysis performed by Fairway Laboratories, Inc. at the Pennsdale location. This location is PaDEP Chapter 252 certified.

Represents "less than" - indicates that the result was less than the reporting limit.

•

Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any

reported result values that are less than the RL are considered estimated values.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

Fairway Laboratories, Inc.

MDL

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.



89 Kristi Road Pennsdale, PA 17756 (570) 494-6380 PaDEP: PA 41-04684



State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

Letterle & Associates Inc.

Project:

UNITED CLEARFIELD

2022 Axemann Road Suite 201

Project Number:

Reported:

Bellefonte PA, 16823

Collector:

09/24/15 09:30

Project Manager:

Jed Hill

Number of Containers:

none

**CLIENT** 

#### Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody.

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law,

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

# REQUEST FOR ANALYSIS CHAIN OF CUSTODY/

Please print. See back of COC for instructions/terms

FAIRWAY LABORATORIES Environmental Laboratory

2019 9th Ave. P.O. Box 1925 Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791

Client Page # 1 of 2

|                      |                     |            |         |                            |                 |             | -                     | l            |            |                                                | ſ              |
|----------------------|---------------------|------------|---------|----------------------------|-----------------|-------------|-----------------------|--------------|------------|------------------------------------------------|----------------|
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|                      |                     |            |         | -                          | 1               | 11/12       | -                     | +            | 700        | and an                                         | <b>/</b>       |
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|                      |                     | ×          |         |                            | 13:54           |             |                       |              |            | <i>γ</i> 1ω - ٦                                |                |
|                      |                     | ×          |         |                            | 13:35           |             |                       |              |            | Mw-5                                           | !              |
|                      |                     | ×          |         |                            | [1:35           |             |                       |              |            | mw-4                                           |                |
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|                      |                     | X          | -       |                            | 16340           | -           |                       |              |            | MW-2A                                          |                |
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|                      |                     | ×          |         |                            | 10.2<br>10.52   |             |                       |              |            | MW-1A                                          |                |
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| Bottle Type/Comments |                     | <u> </u>   | ├──     | Wa<br>Otl                  | End<br>Time Sol | End<br>Date | Start Start Date Time |              |            | Sample Description/Location                    | Samp           |
|                      |                     |            | _       |                            |                 |             |                       | Co           | GR         | Date Required: / /                             | Date R         |
|                      |                     |            |         | -                          | 444             | ļ           | 11010                 | mpo          | AB         | Rush TAT subject to pre-approval and surcharge | Rush TA        |
| TI SCHOOL            |                     | O,<br>Icaa | aine    |                            | Composite       | Com         | Composite             | osite        |            | TAT: Normal D Rush                             | TAT            |
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| of 2                 |                     |            | <u></u> | Maurix                     | GRAB L          | GR          |                       |              | Clearfield | t Name: Un≀+cd                                 | Projec         |
| ET T Dogs #          |                     | _          | 1       |                            | <u> </u>        | 1           |                       | <br>         |            |                                                | Fax#:          |
|                      |                     |            |         |                            | ;<br>;<br>;     |             |                       |              |            | 814-35                                         | Phone#:        |
| Attach #             |                     | دئ<br>ک    |         | 1                          | # DWSID #       |             | Sample Temp:          |              |            |                                                | Contact:       |
| 5515032              |                     | len        |         | Yes D                      | <u>.}</u>       | ,           | 2001 tod 01 100       |              | PA 16823   |                                                |                |
| Work Order#          |                     | 24         | T       | PATHEP?                    | P <sub>A</sub>  | ~<br>≺<br>Z | Received on ice?      |              | Road       | Address: 2022 Axenann Road                     | Address        |
| LAB USE ONLY         | VAnalyses Requested | ٧Ą         | _       | toble to                   | Į.              |             |                       | , a          | ceomiato   | 10.                                            |                |
|                      | Fax: (814) 945-8/91 |            |         |                            | •               |             |                       |              |            | ions.                                          | nd conditions. |

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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy

# REQUEST FOR ANALYSIS **CHAIN OF CUSTODY/**

Please print. See back of COC for instructions/terms and conditions.

FAIRWAY LABORATORIES Environmental Laboratory

2019 9th Ave. P.O. Box 1925

Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791

Client Page # \_\_\_\_\_\_ of .

| на социналь.                       |                       |                      |                  | 1         | 4 1 Danisated      |          | I AR INCE ONLY       |
|------------------------------------|-----------------------|----------------------|------------------|-----------|--------------------|----------|----------------------|
| Client Name: Letterle & Associates |                       |                      | Reportable to    | Γ         | Amaryses requested | -        |                      |
| Address: 2022 Axemann Road R       | Received on ice?      | X                    | PADEP?           |           | -                  |          | SET IS 022           |
| Ž                                  | Sample Temp:          | מוס                  | Yes L            | حمر       |                    |          | Attach# 2            |
| 814-355-2241                       |                       |                      |                  | <br>در    |                    |          |                      |
| Fax#: 814-355-2410                 |                       |                      | Matric           | de        |                    | <u>-</u> | FI .I Page #         |
| Project Name: United Charfield     |                       | GRAB                 | XI.IIRIAI        | leo.      |                    |          | んぎっと                 |
| l I                                |                       | <b>.</b>             |                  |           |                    |          | - 1                  |
| TAT: Normal Rush 🗆 📗 🔠             | Composite             | Composite            |                  | iner<br>( |                    | -        | II acally #          |
| e-approval and surcharge AB        | 11816                 |                      |                  |           |                    | <br>(    |                      |
| GR                                 |                       |                      | ter<br>ier       | 00<br>00  |                    |          |                      |
| Sample Description/Location        | Start Start Date Time | End End<br>Date Time | Sol<br>Wa<br>Otl |           |                    | H        | Bottle Type/Comments |
| MW- 15 X                           | <u> </u>              | <u> </u>             | \$5<br>*         | ۲<br>۲    |                    |          |                      |
| Mu - 2                             |                       | 13:02                | 02               | -         |                    | 1        |                      |
| 82 - mm                            |                       | 9:35                 | 35               |           |                    |          |                      |
| Mω-29                              |                       | 13:18                | 8                |           |                    |          |                      |
| Mw-30                              |                       | हः।ऽ                 | 5                |           |                    |          |                      |
| mw-31                              |                       | 8:56                 | SG               |           |                    |          |                      |
| MW-32                              |                       | 9:35                 | 35               |           |                    |          |                      |
| mw-33                              |                       | SIth                 | 15               |           |                    |          |                      |
| mw-34                              |                       | 6:35                 | 35               |           |                    |          |                      |
| mw-35                              |                       | 91                   | 9:50             |           |                    |          |                      |
| mw-36                              | -                     | lo                   | 16:20            |           |                    |          |                      |
| Sampled by:                        | Received b            | γ:                   | Date             |           |                    | Remarks  |                      |
| Lame Con                           | Chile                 | en                   | 4-15-15          | 12        |                    |          |                      |
| Relinquistred by:  0 Date Time     | Received by:          | Mr.col               | 2/5/x            | 7 120     |                    |          |                      |
| Relinquished by:                   | Received by:          | y:                   | Date             |           |                    |          |                      |
| Date                               | 1                     | 2                    | Date             |           |                    |          |                      |
| Relinquished by:                   | Received by:          | Zi.                  | VI U.S. A        | 15:15     |                    |          |                      |

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|          |                                                                                                                                                 |                                               |                                                                                                                 |                                                                           |                                                                         |                  |                                |                    |              |                  |                       | * Comments:                                                                              | *        |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------|--------------------------------|--------------------|--------------|------------------|-----------------------|------------------------------------------------------------------------------------------|----------|
| e:       | CLIENT RESPONSE: Proceed with analysis; qualify data Will Resample Provided Information No Response; Proceed and qualified Client Contact:Date: | with an with an sample d Informonse; Pontact: | CLIENT RESPONSE: Proceed with analysis; Will Resample Provided Information No Response; Proceed Client Contact: |                                                                           | Date:                                                                   | LED:             | CLIENT CALLED: YES () By Whom: | CLIENT C  By Whom: |              |                  | SENT: mperatur ion:   | DEVIATION PRESENT: No Ice Not at Proper Temperature Wrong Container Missing Information: | 9999 *   |
|          |                                                                                                                                                 |                                               |                                                                                                                 |                                                                           |                                                                         |                  |                                |                    |              |                  |                       |                                                                                          |          |
|          |                                                                                                                                                 |                                               | V) (2                                                                                                           |                                                                           |                                                                         |                  |                                |                    |              |                  |                       | 77                                                                                       |          |
|          |                                                                                                                                                 |                                               |                                                                                                                 |                                                                           | - L+1                                                                   |                  |                                |                    |              |                  |                       | -                                                                                        |          |
|          |                                                                                                                                                 | Bacti                                         | Properly Preserved  *                                                                                           | Other                                                                     | VOCS<br>(Head<br>space?)                                                | Poly<br>NaOH     | Amber<br>Non-<br>Pres.         | Amber<br>H2SO4     | Poly<br>HNO3 | Poly<br>H2SO4    | Poly<br>Non-<br>Pres. |                                                                                          |          |
|          | Comments                                                                                                                                        | Matrix: waret                                 |                                                                                                                 | Correct containers for all the analysis requested?                        | containers for all the analysis requestion.  Number and Type of BOTTLES | r all the Type o | ainers fo                      | rect cont          | Con          |                  | s agree?              | COC/Labels on bottles agree? \_\_\* COC #                                                | ဩ ႙      |
| ss?      | * or In cool down process? 🔲 *                                                                                                                  | * or                                          | lable? ¥                                                                                                        | * Sample Temperature when delivered to the Lab: 0.2 Acceptable?   Intact? | the Lab                                                                 | vered to         | hen deli                       | ature w            | Temper       | Sample 1 Intact? | *                     | Received on ICE? Custody Seals?                                                          | ر<br>چ د |
| <br>- ₹3 | Lab# 5515032                                                                                                                                    | b# 5                                          |                                                                                                                 | Page                                                                      | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\                               | ETTELLE          |                                | Client:            | 13.40        |                  | ं बीडी।               | Date/Time of this check: 4/5/18                                                          | D &      |
|          | Page of                                                                                                                                         | <i>(</i> )                                    |                                                                                                                 | Date: June 18, 2014 Chain of Custody Receiving Document                   | Da<br>ody Rec                                                           | of Cust          | Chain c                        | _                  | Revision 17  |                  | Þ                     | SOP FLI0601-002                                                                          | SS       |

This is a date sensitive document and may not be current after September 10, 2015.





December 30, 2014

Mr. Jed Hill Letterle & Associates, LLC 629 Rolling Ridge Drive Bellefonte, PA 16823

RE: Project: United Clearfield Kwik Fill

Pace Project No.: 30137112

Dear Mr. Hill:

Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Pachel & Christman

Rachel Christner rachel.christner@pacelabs.com Project Manager

Enclosures







#### CERTIFICATIONS

Project:

United Clearfield Kwik Fill

Pace Project No.:

30137112

#### Minnesota Certification IDs

Maryland Certification #: 322 Michigan DEPH Certification #: 9909

1700 Elm Street SE Suite 200, Minneapolis, MN 55414 A2LA Certification #: 2926.01 Alaska Certification #: UST-078 Alaska Certification #MN00064 Alabama Certification #40770 Arizona Certification #: AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace Connecticut Certification #: PH-0256 EPA Region 8 Certification #: 8TMS-L Florida/NELAP Certification #: E87605 Guam Certification #:14-008r Georgia Certification #: 959 Georgia EPD #: Pace Idaho Certification #: MN00064 Hawaii Certification #MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 lowa Certification #: 368 Kansas Certification #: E-10167 Kentucky Dept of Envi. Protection - DW #90062 Kentucky Dept of Envi. Protection - WW #:90062 Louisiana DEQ Certification #: 3086 Louisiana DHH #: LA140001 Maine Certification #: 2013011

Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN\_00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Carolina State Public Health #: 27700 North Dakota Certification #: R-036 Ohio EPA #: 4150 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818 Utah Certification #: MN000642013-4 Virginia DGS Certification #: 251 Virginia/VELAP Certification #: Pace Washington Certification #: C486 West Virginia Certification #: 382 West Virginia DHHR #:9952C Wisconsin Certification #: 999407970

#### **REPORT OF LABORATORY ANALYSIS**





## **SAMPLE SUMMARY**

Project:

United Clearfield Kwik Fill

Pace Project No.: 30137112

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 30137112001 | SG-1      | Air    | 12/10/14 14:42 | 12/18/14 09:35 |
| 30137112002 | SG-2      | Air    | 12/10/14 14:50 | 12/18/14 09:35 |
| 30137112003 | SG-2 Dup. | Air    | 12/10/14 14:50 | 12/18/14 09:35 |

# **REPORT OF LABORATORY ANALYSIS**



#### **SAMPLE ANALYTE COUNT**

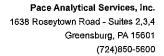
Project:

United Clearfield Kwik Fill

Pace Project No.:

30137112

| Lab ID      | Sample ID | Method | Analysts | Analytes<br>Reported | Laboratory |
|-------------|-----------|--------|----------|----------------------|------------|
| 30137112001 | SG-1      | TO-15  | DL1      | 7                    | PASI-M     |
| 30137112002 | SG-2      | TO-15  | DL1      | 7                    | PASI-M     |
| 30137112003 | SG-2 Dup. | TO-15  | DL1      | 7                    | PASI-M     |





#### **ANALYTICAL RESULTS**

Project:

United Clearfield Kwik Fill

Pace Project No.: 30137112

Date: 12/30/2014 10:48 AM

| Sample: SG-1            | Lab ID:      | 30137112001      | Collecte        | d: 12/10/1 | 4 14:42 | Received: 12 | 2/18/14 09:35 Ma | atrix: Air  |      |
|-------------------------|--------------|------------------|-----------------|------------|---------|--------------|------------------|-------------|------|
| Parameters              | Results      | Units            | Report<br>Limit | MDL        | DF      | Prepared     | Analyzed         | CAS No.     | Qual |
| TO15 MSV AIR            | Analytica    | al Method: TO-18 | 5               |            |         |              |                  |             |      |
| Benzene                 | 1.4          | ug/m3            | 0.57            | 0.21       | 1.74    |              | 12/22/14 05:57   | 71-43-2     |      |
| Ethylbenzene            | ND           | ug/m3            | 1.5             | 0.31       | 1.74    |              | 12/22/14 05:57   | 100-41-4    |      |
| Methyl-tert-butyl ether | ND           | ug/m3            | 1.3             | 0.15       | 1.74    |              | 12/22/14 05:57   | 1634-04-4   |      |
| Naphthalene             | ND           | ug/m3            | 4.6             | 0.45       | 1.74    |              | 12/22/14 05:57   | 91-20-3     |      |
| Toluene                 | <b>3.9</b> i | ug/m3            | 1.3             | 0.23       | 1.74    |              | 12/22/14 05:57   | 108-88-3    |      |
| m&p-Xylene              | 4.9          | ug/m3            | 3.1             | 0.24       | 1.74    |              | 12/22/14 05:57   | 179601-23-1 |      |
| o-Xylene                | 1.9          | ug/m3            | 1.5             | 0.77       | 1.74    |              | 12/22/14 05:57   | 95-47-6     |      |



# **ANALYTICAL RESULTS**

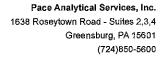
Project:

United Clearfield Kwik Fill

Pace Project No.: 30137112

Date: 12/30/2014 10:48 AM

| Sample: SG-2            | Lab ID    | : 30137112002   | Collecte | d: 12/10/1 | 4 14:50 | Received: 12 | 2/18/14 09:35 Ma | atrix: Air  |      |
|-------------------------|-----------|-----------------|----------|------------|---------|--------------|------------------|-------------|------|
|                         |           |                 | Report   |            |         |              |                  |             | _    |
| Parameters              | Results   | Units           | Limit    | MDL        | DF<br>  | Prepared     | Analyzed<br>     | CAS No.     | Qual |
| TO15 MSV AIR            | Analytica | al Method: TO-1 | 5        |            |         |              |                  |             |      |
| Benzene                 | 1.4       | ug/m3           | 0.57     | 0.21       | 1.74    |              | 12/22/14 06:21   | 71-43-2     |      |
| Ethylbenzene            | ND        | ug/m3           | 1.5      | 0.31       | 1.74    |              | 12/22/14 06:21   | 100-41-4    |      |
| Methyl-tert-butyl ether | ND        | ug/m3           | 1.3      | 0.15       | 1.74    |              | 12/22/14 06:21   | 1634-04-4   |      |
| Naphthalene             | ND        | ug/m3           | 4.6      | 0.45       | 1.74    |              | 12/22/14 06:21   | 91-20-3     |      |
| Toluene                 | 3.6       | ug/m3           | 1.3      | 0.23       | 1.74    |              | 12/22/14 06:21   | 108-88-3    |      |
| m&p-Xylene              | 4.8       | ug/m3           | 3.1      | 0.24       | 1.74    |              | 12/22/14 06:21   | 179601-23-1 |      |
| o-Xylene                | 1.8       | ug/m3           | 1.5      | 0.77       | 1.74    |              | 12/22/14 06:21   | 95-47-6     |      |





#### **ANALYTICAL RESULTS**

Project:

United Clearfield Kwik Fill

Pace Project No.:

Date: 12/30/2014 10:48 AM

30137112

| Sample: SG-2 Dup.       | Lab (D:   | 30137112003      | Collecte | d: 12/10/1 | 4 14:50 | Received: 12 | 2/18/14 09:35 Ma | atrix: Air  |       |
|-------------------------|-----------|------------------|----------|------------|---------|--------------|------------------|-------------|-------|
| Demonstru               | D!!-      | 11-4-            | Report   | MOI        | DE      | D            | A L              | CACNo       | Overl |
| Parameters              | Results   | Units            | Limit    | MDL        | DF      | Prepared     | Analyzed<br>     | CAS No.     | Qual  |
| TO15 MSV AIR            | Analytica | ıl Method: TO-15 | ;        |            |         |              |                  |             |       |
| Benzene                 | 1.1       | ug/m3            | 0.57     | 0.21       | 1.74    |              | 12/22/14 06:45   | 71-43-2     |       |
| Ethylbenzene            | ND        | ug/m3            | 1.5      | 0.31       | 1.74    |              | 12/22/14 06:45   | 100-41-4    |       |
| Methyl-tert-butyl ether | ND        | ug/m3            | 1.3      | 0.15       | 1.74    |              | 12/22/14 06:45   | 1634-04-4   |       |
| Naphthalene             | ND 1      | ug/m3            | 4.6      | 0.45       | 1.74    |              | 12/22/14 06:45   | 91~20~3     |       |
| Toluene                 | 1.7       | ug/m3            | 1.3      | 0.23       | 1.74    |              | 12/22/14 06:45   | 108-88-3    |       |
| m&p-Xylene              | ND I      | ug/m3            | 3.1      | 0.24       | 1.74    |              | 12/22/14 06:45   | 179601-23-1 |       |
| o-Xylene                | ND I      | ug/m3            | 1.5      | 0.77       | 1.74    |              | 12/22/14 06:45   | 95-47-6     |       |



#### **QUALITY CONTROL DATA**

Project:

United Clearfield Kwik Fill

Pace Project No.:

30137112

QC Batch:

AIR/22116

Analysis Method:

TO-15

QC Batch Method:

TO-15

Analysis Description:

TO15 MSV AIR Low Level

Associated Lab Samples:

30137112001, 30137112002, 30137112003

METHOD BLANK: 1870338

Associated Lab Samples:

Date: 12/30/2014 10:48 AM

30137112001, 30137112002, 30137112003

|                         |       | Blank  | Reporting |                |            |
|-------------------------|-------|--------|-----------|----------------|------------|
| Parameter               | Units | Result | Limit     | Analyzed       | Qualifiers |
| Benzene                 | ug/m3 | ND     | 0.32      | 12/21/14 17:13 |            |
| Ethylbenzene            | ug/m3 | ND     | 0.88      | 12/21/14 17:13 |            |
| m&p-Xylene              | ug/m3 | ND     | 1.8       | 12/21/14 17:13 |            |
| Methyl-tert-butyl ether | ug/m3 | ND     | 0.73      | 12/21/14 17:13 |            |
| Naphthalene             | ug/m3 | ND     | 2.7       | 12/21/14 17:13 |            |
| o-Xylene                | ug/m3 | ND     | 0.88      | 12/21/14 17:13 |            |
| Toluene                 | ug/m3 | ND     | 0.77      | 12/21/14 17:13 |            |

| ABORATORY CONTROL SAMPLE: | 1870339 |       |        |       |        |            |
|---------------------------|---------|-------|--------|-------|--------|------------|
|                           |         | Spike | LCS    | LCS   | % Rec  |            |
| Parameter                 | Units   | Conc. | Result | % Rec | Limits | Qualifiers |
| Benzene                   | ug/m3   | 32.5  | 31.7   | 98    | 69-134 |            |
| thylbenzene               | ug/m3   | 44.2  | 46.5   | 105   | 73-139 |            |
| &p-Xylene                 | ug/m3   | 88.3  | 94.6   | 107   | 73-139 |            |
| thyl-tert-butyl ether     | ug/m3   | 36.7  | 39.3   | 107   | 72-132 |            |
| phthalene                 | ug/m3   | 53.3  | 49.3   | 92    | 61-150 |            |
| Xylene                    | ug/m3   | 44.2  | 46.5   | 105   | 71-138 |            |
| luene                     | ug/m3   | 38.3  | 39.8   | 104   | 67-133 |            |

| SAMPLE DUPLICATE: 187127 |       | 10291976001 | Dup    |     | Max |            |
|--------------------------|-------|-------------|--------|-----|-----|------------|
| Parameter                | Units | Result      | Result | RPD | RPD | Qualifiers |
| Benzene                  | ug/m3 | 0.48        | 0.56   | 15  | 25  |            |
| Ethylbenzene             | ug/m3 | ND          | .83J   |     | 25  |            |
| m&p-Xylene               | ug/m3 | 2.7         | 2.8    | 4   | 25  |            |
| Methyl-tert-butyl ether  | ug/m3 | ND          | ND     |     | 25  |            |
| Naphthalene              | ug/m3 | ND          | 1.6J   | ١   | 25  |            |
| o-Xylene                 | ug/m3 | ND          | 1J     |     | 25  |            |
| Toluene                  | ug/m3 | 3.5         | 3.3    | 5   | 25  |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Pace Analytical Services, Inc. 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

#### **QUALIFIERS**

Project:

United Clearfield Kwik Fill

Pace Project No.:

30137112

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodlphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

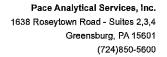
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### **LABORATORIES**

Date: 12/30/2014 10:48 AM

PASI-M Pace Analytical Services - Minneapolis





## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project:

United Clearfield Kwik Fill

Pace Project No.:

Date: 12/30/2014 10:48 AM

30137112

| Lab ID      | Sample ID | QC Batch Method | QC Batch  | Analytical Method | Analytical<br>Batch |
|-------------|-----------|-----------------|-----------|-------------------|---------------------|
| 30137112001 | SG-1      | TO-15           | AIR/22116 |                   |                     |
| 30137112002 | SG-2      | TO-15           | AIR/22116 |                   |                     |
| 30137112003 | SG-2 Dup. | TO-15           | AIR/22116 |                   |                     |



# AIR: CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Cushody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Section A<br>Required C | Section A Se<br>Required Client Information: Re-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section B<br>Required Project Information:                                                                 | tion:     |                    | 8 2                                   | Section C<br>Involve Information | -in-                                    |                                 |                                                     |                |            |                           |                         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 163       | 16358      | Page:             |                 |            |             |
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| Company                 | Conspany ( L. Hardy to the Committee ) Re-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Report To:                                                                                                 | 12.1      |                    | <u>₹</u>                              | Affention:                       |                                         |                                 |                                                     |                |            |                           |                         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Program   | Ē          |                   |                 |            | 1           |
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| 374                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Address of the last                                                                                        |           |                    | 74                                    | Seat                             | Co. A.                                  | 100                             | 5 5                                                 | Hrss.          | 77         | (5.6)                     |                         | L. Yell      | Voluntary Clean Up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>!</b>  | Dry Clean  | RCRA              | ί.,             | Other      | .ī          |
| Emall To:               | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Purchase Order No.:                                                                                        |           |                    | E.                                    | S Ouo s                          | (eference                               |                                 | Pace Ouble Reference:                               |                |            |                           |                         | l ocation of | jo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1         |            | Reporti           | Reporting Units | *          | <u> </u>    |
| ともなった。                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Project Name Charford Knit Fill                                                                            | 5.0       | 1                  |                                       | æ Project                        | Мападел                                 | Pace Project Managed Sales Rep. | 78                                                  | ]              | 7          | 1                         | Corner of               | Sample       | Sampling by State                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Ŧ          | PPRV<br>Other     | PPMV            | <b>∤</b>   |             |
| Redurestar              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | roject Number:                                                                                             |           | ·                  |                                       | Pace Profile #:                  | ąĸ                                      |                                 |                                                     |                | *****      | •                         |                         | Report Lavel | svel II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | III.      | .⊠         | Other             | ].<br>          |            | - 1         |
|                         | Section D Required Client Information Market SAMPLE ID 101 101 101 101 101 101 101 101 101 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Valid Master Codes MEIZA. 900E Teder Bag TB 1 Law Summa Can TLC 6 Libra Summa Can ELC intervedina Paff LYP |           | ding (Cilent only) | ឋ                                     | COLLECTED                        | 9                                       |                                 | er Pressure<br>Field - pelg)<br>everyne             | Field - ps(g)  | Summa      | Contro                    | Flow<br>Control Number  | - F          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \ \ \ \ \ |            | 10000             |                 |            |             |
| # M3TI                  | <b>:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ther PM(10                                                                                                 | MEDIA C   | 1- IV:             | COMPOSITE CIMIT<br>CONTREME<br>DATE T | TWE C                            | COMPOSITE<br>DATE TI                    | ı ı                             | lstiini)                                            | lsn)9)         | Number     |                           |                         | 100          | PROJECT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE |           | > <b>y</b> | We stat           | Page Lab II     | <u>0</u>   |             |
|                         | 56-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            | 771       | 13                 |                                       | 1                                | -                                       |                                 | 7 35                                                | 7              | 409        |                           |                         |              | ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | 1          |                   |                 | +          |             |
| 2                       | ₹-95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            | 3         | <u> </u>           | -                                     | 1433 12                          | -<br>이성                                 | 051                             | 7- 86-                                              | c6             | 572        |                           |                         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 7          |                   |                 |            | [.          |
| 65                      | SE-2 mg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                            | 32        | -                  |                                       | 1133 13                          | 13-15D                                  |                                 | 1                                                   | 4              | 2.         |                           |                         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | ×          |                   |                 |            | i           |
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| 9                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            |           | L                  |                                       |                                  | <u></u>                                 |                                 |                                                     |                |            |                           |                         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |            |                   |                 |            |             |
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| Q)                      | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ħ.                                                                                                         |           |                    |                                       |                                  |                                         |                                 |                                                     |                |            | -125                      | 7                       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 15.        |                   |                 |            | :           |
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| 究                       | BTEX, Cumum, MIBE, and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | مهر                                                                                                        | 0         | 10                 |                                       |                                  | -2                                      | 31-71                           | 9070                                                | 3              | A          | $\{$                      | Z<br>e                  | 71817        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8         |            | fres @            | Ø,              | r O        |             |
| Air                     | No all the last                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                            | ١         | Ì                  |                                       | 1                                |                                         |                                 |                                                     | /              | ,  <br>[ ] |                           |                         |              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |            | ΝŅ                | N/A             | N/Å        |             |
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|                         | ORIGINA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 181                                                                                                        |           |                    |                                       | <b>a</b> .                       | ELENATURE CE                            | 1                               | 11/11                                               | N.             |            |                           | DATE Styned (MM/DD/177) | 11-51        | <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |            |                   |                 | mes        | <del></del> |
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1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

# Sample Condition Upon Receipt

| Pace Analytical* Client Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Letterle                              | Proje                  | ct# <u>30137112</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Custody Seal on Cooler/Box Present:  yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | s ⊟no Seals intact                    | : ∐yes                 | Proj. Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Packing Material:   Bubble Wrap  Bubb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | · · · · · · · · · · · · · · · · · · · | Other                  | <del></del> ;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Thermometer Used NA Type of lo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ce: Wet Blue I                        |                        | n Ice, cooling process has begun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cooler Temperature NA Bi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ological Tissue is Froz               |                        | te and initials of person examining ntents;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Temp should be above freezing to 6°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | Comments:              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chain of Custody Present:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | □Yes □No □N/A                         | 1,                     | Address volume of 10 March                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Chain of Custody Filled Out:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | □Yes □Nc □N/A                         | 2.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Sampler Name & Signature on COC:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □Yes □No □N/A                         | 4                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Samples Arrived within Hold Time:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | □Yes □No □N/A                         | 5.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Short Hold Time Analysis (<72hr):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | □Yes □No □N/A                         | 6.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rush Turn Around Time Requested:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □Yes □No □N/A                         | 7.                     | of mil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Correct Containers Used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | □Yes □No □N/A                         | 9.                     | 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -Pace Containers Used:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ∐Yes □No □N/A                         |                        | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Containers Intact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | □Yes □No □N/A                         | 10.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Filtered volume received for Dissolved tests:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | □Yes □No □N/A                         | 11.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sample Labels match COC:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | □Yes □No ZN/A                         | 12.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -Includes date/time/ID/Analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Matrix:                               |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| All containers needing preservation have been checked:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | □Yes □No □N/A                         | 13.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| All containers needing preservation are found to be in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ☐Yes ☐No ☐N/A                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| compliance with EPA recommendation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Exceptions: VOA, coliform, TOC, O&G, WI-DB@ (water)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | □Ÿes □No                              | Initial when completed | Lot # of added preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Samples checked for dechlorination:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | □Yes □No □N/A                         | 14,                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Headspace in VOA Vials (>6prim):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □Yes □No □N/A                         | 15.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Trip Blank Present:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | □Yes □No □N/A                         | 16.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Trip Blank Custody Seals Present:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | □Yes □No □N/A                         | 10.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pace Trip Blank Lot # (if purchased):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | <u> </u>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Client Notification/Resolution:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D-t- Time                             |                        | Data Required? Y / N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Person Contacted:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date/Time                             |                        | 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Comments/Resolution:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |                        | THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S |
| Samples were delivered directly to subcontracting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | g laboratory. No sample               | received at Pace Pah t | to check condition of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Complete More Controlled alloway to odposite domin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| - Janas St                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | VALENTON.                             | <b>.</b> .             | 12/18/14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Project Manager Review:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       | Date:                  | <u> 14110/17                                  </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



Pace Analytical Services, Inc. 1700 Elm Street – Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client:

PASI PITTSBURGH

Phone:

724-850-5600

Lab Project Number: 10292120

Project Name: 30137112 Letterle & Associates

Lab Sample No:

30137112001

ProjSampleNum: 30137112001

Date Collected: 12/10/14 14:42

Client Sample ID:

SG-1

Matrix: Air

Date Received: 12/18/14 9:35

| Parameters              | Results | Units | Report Limit | DF   | Analyzed          | CAS No.              | Qualifiers |
|-------------------------|---------|-------|--------------|------|-------------------|----------------------|------------|
| <b>Air</b><br>TO-15     |         |       |              |      | •                 |                      |            |
|                         |         |       | 0.00057      | 4 74 | 49/99/4 E.E7 DI 4 | 71 42 2              |            |
| Benzene                 | 0.0014  | mg/m3 | 0.00057      | 1.74 | 12/22/14 5:57 DL1 | 71-43-2              |            |
| Ethylbenzene            | ND      | mg/m3 | 0.0015       | 1.74 | 12/22/14 5:57 DL1 | 100-41- <del>4</del> |            |
| m&p-Xylene              | 0.0049  | mg/m3 | 0.0031       | 1.74 | 12/22/14 5:57 DL1 | 179601-23-1          |            |
| Methyl-tert-butyl ether | ND      | mg/m3 | 0.0013       | 1.74 | 12/22/14 5:57 DL1 | 1634-04-4            |            |
| Naphthalene             | ND      | mg/m3 | 0.0046       | 1.74 | 12/22/14 5:57 DL1 | 91-20-3              |            |
| o-Xylene                | 0.0019  | mg/m3 | 0.0015       | 1.74 | 12/22/14 5:57 DL1 | 95-47-6              |            |
| Toluene                 | 0.0039  | mg/m3 | 0.0013       | 1.74 | 12/22/14 5:57 DL1 | 108-88-3             |            |

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc. 17 00 Elm Street - Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client:

PASI PITTSBURGH

Lab Project Number: 10292120

Project Name: 30137112 Letterle & Associates

Phone: Lab Sample No:

724-850-5600

ProjSampleNum: 30137112002

Date Collected: 12/10/14 14:50

Client Sample ID:

30137112002 SG-2

Matrix: Air

Date Received: 12/18/14 9:35

| Parameters              | Results | Units | Report Limit | DF   | Analyzed          | CAS No.     | Qualifiers |
|-------------------------|---------|-------|--------------|------|-------------------|-------------|------------|
| Air<br>TO-15            |         |       |              |      |                   |             |            |
| Benzene                 | 0.0014  | mg/m3 | 0.00057      | 1.74 | 12/22/14 6:21 DL1 | 71-43-2     |            |
| Ethylbenzene            | ND      | mg/m3 | 0.0015       | 1.74 | 12/22/14 6:21 DL1 | 100-41-4    |            |
| m&p-Xylene              | 0.0048  | mg/m3 | 0.0031       | 1.74 | 12/22/14 6:21 DL1 | 179601-23-1 |            |
| Methyl-tert-butyl ether | ND      | mg/m3 | 0.0013       | 1.74 | 12/22/14 6:21 DL1 | 1634-04-4   |            |
| Naphthalene             | ND      | mg/m3 | 0.0046       | 1.74 | 12/22/14 6:21 DL1 | 91-20-3     |            |
| o-Xylene                | 0.0018  | mg/m3 | 0.0015       | 1.74 | 12/22/14 6:21 DL1 | 95-47-6     |            |
| Toluene                 | 0.0036  | mg/m3 | 0.0013       | 1.74 | 12/22/14 6:21 DL1 | 108-88-3    |            |

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc. 17 00 Elm Street - Suite 200 Winneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client:

PASI PITTSBURGH

Phone:

724-850-5600

Lab Project Number: 10292120

Project Name: 30137112 Letterie & Associates

Lab Sample No:

30137112003

ProjSampleNum: 30137112003

Date Collected: 12/10/14 14:50

Matrix: Air

Date Received: 12/18/14 9:35

| Parameters              | Results | Units | Report Limit | DF   | Analyzed          | CAS No.     | Qualifiers |
|-------------------------|---------|-------|--------------|------|-------------------|-------------|------------|
| Air<br>TO-15            |         |       |              |      |                   |             |            |
| Benzene                 | 0.0011  | mg/m3 | 0.00057      | 1.74 | 12/22/14 6:45 DL1 | 71-43-2     |            |
| Ethylbenzene            | ND      | mg/m3 | 0.0015       | 1.74 | 12/22/14 6:45 DL1 | 100-41-4    |            |
| m&p-Xylene              | ND      | mg/m3 | 0.0031       | 1.74 | 12/22/14 6:45 DL1 | 179601-23-1 |            |
| Methyl-tert-butyl ether | ND      | mg/m3 | 0.0013       | 1.74 | 12/22/14 6:45 DL1 | 1634-04-4   |            |
| Naphthalene             | ND      | mg/m3 | 0.0046       | 1.74 | 12/22/14 6:45 DL1 | 91-20-3     |            |
| o-Xylene                | ND      | mg/m3 | 0.0015       | 1.74 | 12/22/14 6:45 DL1 | 95-47-6     |            |
| Toluene                 | 0.0017  | mg/m3 | 0.0013       | 1.74 | 12/22/14 6:45 DL1 | 108-88-3    |            |

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request



Pace Analytical Services, Inc. 1700 Elm Street – Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client: Phone: PASI PITTSBURGH

724-850-5600

Lab Project Number: 10292120

Project Name: 30137112 Letterle & Associates

## **PARAMETER FOOTNOTES**





March 24, 2015

Mr. Jed Hill Letterle & Associates, LLC 629 Rolling Ridge Drive Bellefonte, PA 16823

RE: Project: 277 United Clearfield Kwik Fil

Pace Project No.: 30143067

Dear Mr. Hill:

Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

arnel & Unistral

Rachel Christner rachel.christner@pacelabs.com Project Manager

Enclosures







#### **CERTIFICATIONS**

Project:

277 United Clearfield Kwik Fil

Pace Project No.:

30143067

#### Minnesota Certification IDs

Louisiana DHH #: LA140001 Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

AZLA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #A0770
Arizona Certification #: 88-0680
California Certification #: 88-0680
California Certification #: 88-0680
California Certification #: PH-0256
EPA Region 8 Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: 887605
Guam Certification #: 14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #: 200011
Indiana Certification #: 200011
Indiana Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louislana DEQ Certification #: 3086

Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace Montana Certification #: MT0092 Nevada Certification #: MN 00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Carolina State Public Health #: 27700 North Dakota Certification #: R-036 Ohio EPA#: 4150 Ohlo VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Saipan (CNMI) #:MP0003 South Carolina #:74003001 Texas Certification #: T104704192 Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486

West Virginia Certification #: 382 West Virginia DHHR #:9952C Wisconsin Certification #: 999407970

#### REPORT OF LABORATORY ANALYSIS





#### **SAMPLE SUMMARY**

Project:

277 United Clearfield Kwik Fil

Pace Project No.:

30143067

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 30143067001 | SG-1      | Air    | 03/12/15 10:38 | 03/17/15 09:45 |
| 30143067002 | SG-2      | Air    | 03/12/15 11:16 | 03/17/15 09:45 |
| 30143067003 | SG-2 Dup  | Air    | 03/12/15 11:16 | 03/17/15 09:45 |

#### REPORT OF LABORATORY ANALYSIS



#### SAMPLE ANALYTE COUNT

Project:

277 United Clearfield Kwik Fil

Pace Project No.:

30143067

| Lab ID      | Sample ID | Method | Analysts | Analytes<br>Reported | Laboratory |
|-------------|-----------|--------|----------|----------------------|------------|
| 30143067001 | SG-1      | TO-15  | MJL      | 10                   | PASI-M     |
| 30143067002 | SG-2      | TO-15  | MJL      | 10                   | PASI-M     |
| 30143067003 | SG-2 Dup  | TO-15  | MJL      | 10                   | PASI-M     |



#### **ANALYTICAL RESULTS**

Project:

277 United Clearfield Kwik Fil

Pace Project No.: 30143067

Date: 03/24/2015 01:46 PM

| Sample: SG-1              | Lab ID:    | 30143067001   | Collecte        | d: 03/12/1 | 5 10:38 | Received: 03 | 3/17/15 09: <b>4</b> 5 Ma | atrix: Air  |      |
|---------------------------|------------|---------------|-----------------|------------|---------|--------------|---------------------------|-------------|------|
| Parameters                | Results    | Units         | Report<br>Limit | MDL.       | DF      | Prepared     | Analyzed                  | CAS No.     | Qual |
| TO15 MSV AIR              | Analytical | Method: TO-15 |                 |            |         |              |                           |             |      |
| Benzene                   | ND         | ug/m3         | 0.63            | 0.23       | 1.94    |              | 03/22/15 17:39            | 71-43-2     |      |
| Ethylbenzene              | ND         | ug/m3         | 1.7             | 0.35       | 1.94    |              | 03/22/15 17:39            | 100-41-4    |      |
| Isopropylbenzene (Cumene) | ND         | ug/m3         | 4.8             | 0.97       | 1.94    |              | 03/22/15 17:39            | 98-82-8     |      |
| Methyl-tert-butyl ether   | ND         | ug/m3         | 1.4             | 0.17       | 1.94    |              | 03/22/15 17:39            | 1634-04-4   |      |
| Naphthalene               | ND         | ug/m3         | 5.2             | 0.50       | 1.94    |              | 03/22/15 17:39            | 91-20-3     |      |
| Toluene                   | ND         | ug/m3         | 1.5             | 0.26       | 1.94    |              | 03/22/15 17:39            | 108-88-3    |      |
| 1,2,4-Trimethylbenzene    | ND         | ug/m3         | 1.9             | 0.24       | 1.94    |              | 03/22/15 17:39            | 95-63-6     |      |
| 1,3,5-Trimethylbenzene    | ND         | ug/m3         | 1.9             | 0.40       | 1.94    |              | 03/22/15 17:39            | 108-67-8    |      |
| m&p-Xylene                | ND         | ug/m3         | 3.4             | 0.27       | 1.94    |              | 03/22/15 17:39            | 179601-23-1 |      |
| o-Xylene                  | ND         | ug/m3         | 1.7             | 0.86       | 1.94    |              | 03/22/15 17:39            | 95-47-6     |      |



#### **ANALYTICAL RESULTS**

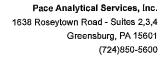
Project:

277 United Clearfield Kwik Fil

Pace Project No.: 30143067

Date: 03/24/2015 01:46 PM

| Sample: SG-2              | Lab ID:    | 30143067002   | Collecte | d: 03/12/1 | 5 11:16 | Received: 03 | 3/17/15 09:45 Ma | atrix: Air  |      |
|---------------------------|------------|---------------|----------|------------|---------|--------------|------------------|-------------|------|
|                           |            |               | Report   |            |         |              |                  |             |      |
| Parameters                | Results    | Units         | Limit    | MDL        | DF      | Prepared     | Analyzed         | CAS No.     | Qual |
| TO15 MSV AIR              | Analytical | Method: TO-15 |          |            |         |              |                  |             |      |
| Benzene                   | 2.2        | ug/m3         | 0.51     | 0.19       | 1.57    |              | 03/22/15 18:10   | 71-43-2     |      |
| Ethylbenzene              | 7.7        | ug/m3         | 1.4      | 0.28       | 1.57    |              | 03/22/15 18:10   | 100-41-4    |      |
| Isopropylbenzene (Cumene) | ND         | ug/m3         | 3.9      | 0.78       | 1.57    |              | 03/22/15 18:10   | 98-82-8     |      |
| Methyl-tert-butyl ether   | ND         | ug/m3         | 1.1      | 0.14       | 1.57    |              | 03/22/15 18:10   | 1634-04-4   |      |
| Naphthalene .             | ND         | ug/m3         | 4.2      | 0.41       | 1.57    |              | 03/22/15 18:10   | 91-20-3     |      |
| Toluene                   | 4.8        | ug/m3         | 1.2      | 0.21       | 1.57    |              | 03/22/15 18:10   | 108-88-3    |      |
| 1,2,4-Trimethylbenzene    | 7.1        | ug/m3         | 1.6      | 0.19       | 1.57    |              | 03/22/15 18:10   | 95-63-6     |      |
| 1,3,5-Trimethylbenzene    | 2.0        | ug/m3         | 1.6      | 0.32       | 1.57    |              | 03/22/15 18:10   | 108-67-8    |      |
| m&p-Xylene                | 15.6       | ug/m3         | 2.8      | 0.22       | 1.57    |              | 03/22/15 18:10   | 179601-23-1 |      |
| o-Xylene                  | 2.8        | ug/m3         | 1.4      | 0.69       | 1.57    |              | 03/22/15 18:10   | 95-47-6     |      |





#### **ANALYTICAL RESULTS**

Project:

277 United Clearfield Kwik Fil

Pace Project No.:

Date: 03/24/2015 01:46 PM

30143067

| Sample: SG-2 Dup          | Lab ID:               | 30143067003   | Collected:      | 03/12/1 | 5 11:16 | Received: 03 | 3/17/15 09:45 M | atrix: Air  |      |
|---------------------------|-----------------------|---------------|-----------------|---------|---------|--------------|-----------------|-------------|------|
| Parameters                | Results               | Units         | Report<br>Limit | MDL     | DF      | Prepared     | Analyzed        | CAS No.     | Qual |
| TO15 MSV AIR              | — ——— —<br>Analytical | Method: TO-15 | <del></del>     |         |         |              |                 |             |      |
| Benzene                   | 1.6                   | ug/m3         | 0.51            | 0.19    | 1.57    |              | 03/22/15 18:41  | 71-43-2     |      |
| Ethylbenzene              | ND                    | ug/m3         | 1.4             | 0.28    | 1.57    |              | 03/22/15 18:41  | 100-41-4    |      |
| Isopropylbenzene (Cumene) | ND                    | ug/m3         | 3.9             | 0.78    | 1.57    |              | 03/22/15 18:41  | 98-82-8     |      |
| Methyl-tert-butyl ether   | ND                    | ug/m3         | 1.1             | 0.14    | 1.57    |              | 03/22/15 18:41  | 1634-04-4   |      |
| Naphthalene               | ND                    | ug/m3         | 4.2             | 0.41    | 1.57    |              | 03/22/15 18:41  | 91-20-3     |      |
| Toluene                   | 4.1                   | ug/m3         | 1.2             | 0.21    | 1.57    |              | 03/22/15 18:41  | 108-88-3    |      |
| 1,2,4-Trimethylbenzene    | ND                    | ug/m3         | 1.6             | 0.19    | 1.57    |              | 03/22/15 18:41  | 95-63-6     |      |
| 1,3,5-Trimethylbenzene    | ND                    | ug/m3         | 1.6             | 0.32    | 1.57    |              | 03/22/15 18:41  | 108-67-8    |      |
| m&p-Xylene                | 4.0                   | ug/m3         | 2.8             | 0.22    | 1.57    |              | 03/22/15 18:41  | 179601-23-1 |      |
| o-Xylene                  | ND                    | ug/m3         | 1.4             | 0.69    | 1.57    |              | 03/22/15 18:41  | 95-47-6     |      |



#### **QUALITY CONTROL DATA**

Project:

277 United Clearfield Kwik Fil

Pace Project No.:

30143067

QC Batch:

AIR/22800

Analysis Method:

TO-15

QC Batch Method:

TO-15

Analysis Description:

TO15 MSV AIR Low Level

Associated Lab Samples:

30143067001, 30143067002, 30143067003

METHOD BLANK: 1923240

Date: 03/24/2015 01:46 PM

Associated Lab Samples:

30143067001, 30143067002, 30143067003

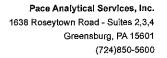
| Parameter                 | Units | Blank<br>Result | Reporting<br>Limit | Analyzed       | Qualifiers |
|---------------------------|-------|-----------------|--------------------|----------------|------------|
| 1,2,4-Trimethylbenzene    | ug/m3 | ND              | 1.0                | 03/22/15 13:29 |            |
| 1,3,5-Trimethylbenzene    | ug/m3 | ND              | 1.0                | 03/22/15 13:29 |            |
| Benzene                   | ug/m3 | ND              | . 0.32             | 03/22/15 13:29 |            |
| Ethylbenzene              | ug/m3 | ND              | 0.88               | 03/22/15 13:29 |            |
| Isopropylbenzene (Cumene) | ug/m3 | ND              | 2.5                | 03/22/15 13:29 |            |
| m&p-Xylene                | ug/m3 | ND              | 1.8                | 03/22/15 13:29 |            |
| Methyl-tert-butyl ether   | ug/m3 | ND              | 0.73               | 03/22/15 13:29 |            |
| Naphthalene               | ug/m3 | ND              | 2.7                | 03/22/15 13:29 |            |
| o-Xylene                  | ug/m3 | ND              | 0.88               | 03/22/15 13:29 |            |
| Toluene                   | ug/m3 | ND              | 0.77               | 03/22/15 13:29 |            |

| LABORATORY CONTROL SAMPLE: | 1923241 |       |        |            |        |            |
|----------------------------|---------|-------|--------|------------|--------|------------|
|                            |         | Spike | LCS    | LCS        | % Rec  |            |
| Parameter                  | Units   | Conc. | Result | % Rec      | Limits | Qualifiers |
| 1,2,4-Trimethylbenzene     | ug/m3   | 50    | 46.0   | 92         | 75-134 |            |
| 3,5-Trimethylbenzene       | ug/m3   | 50    | 44.7   | 89         | 75-133 |            |
| enzene                     | ug/m3   | 32.5  | 25.4   | 78         | 64-139 |            |
| hylbenzene                 | ug/m3   | 44.2  | 41.0   | 93         | 71-136 |            |
| propylbenzene (Cumene)     | ug/m3   | 50    | 43.5   | 87         | 72-139 |            |
| p-Xylene                   | ug/m3   | 88.3  | 83.0   | 94         | 71-134 |            |
| thyl-tert-butyl ether      | ug/m3   | 36.7  | 26.6   | 73         | 73-134 |            |
| phthalene                  | ug/m3   | 53.3  | 46.2   | 87         | 43-150 |            |
| Xylene                     | ug/m3   | 44.2  | 38.2   | 86         | 75-134 |            |
| oluene                     | ug/m3   | 38.3  | 29.5   | <b>7</b> 7 | 70-129 |            |

| SAMPLE DUPLICATE: 1923313 |       |             |        |     |     |            |
|---------------------------|-------|-------------|--------|-----|-----|------------|
|                           |       | 10300161003 | Dup    |     | Max |            |
| Parameter                 | Units | Result      | Result | RPD | RPD | Qualifiers |
| 1,2,4-Trimethylbenzene    | ug/m3 |             | 39.7   | 9   | 25  | _          |
| 1,3,5-Trimethylbenzene    | ug/m3 |             | 26.5   | 6   | 25  |            |
| Benzene                   | ug/m3 |             | 12.3   | 8   | 25  |            |
| Ethylbenzene              | ug/m3 |             | 53.9   | 5   | 25  |            |
| Isopropylbenzene (Cumene) | ug/m3 |             | 7.2    | 3   | 25  |            |
| m&p-Xylene                | ug/m3 |             | 296    | 4   | 25  |            |
| Methyl-tert-butyl ether   | ug/m3 |             | ND     |     | 25  |            |
| Naphthalene               | ug/m3 |             | ND     |     | 25  |            |
| o-Xylene                  | ug/m3 |             | 162    | 5   | 25  |            |
| Toluene                   | ug/m3 |             | 118    | 2   | 25  |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**





#### **QUALITY CONTROL DATA**

Project:

277 United Clearfield Kwik Fil

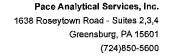
Pace Project No.:

Date: 03/24/2015 01:46 PM

30143067

|                          |       | 10299723001 | Dup    |     | Max |            |
|--------------------------|-------|-------------|--------|-----|-----|------------|
| Parameter                | Units | Result      | Result | RPD | RPD | Qualifiers |
| 1,2,4-Trimethylbenzene   | ug/m3 | 1.6 U       | ND     |     | 25  |            |
| 1,3,5-Trimethylbenzene   | ug/m3 | 1.6 U       | ND     |     | 25  |            |
| Benzene                  | ug/m3 | 0.52 U      | ND     |     | 25  |            |
| Ethylbenzene             | ug/m3 | 1.4 U       | ND     |     | 25  |            |
| sopropylbenzene (Cumene) | ug/m3 | 4.0 U       | ND     |     | 25  |            |
| m&p-Xylene               | ug/m3 | 2.8 U       | ND     |     | 25  |            |
| Methyl-tert-butyl ether  | ug/m3 | 1.2 U       | ND     |     | 25  |            |
| Naphthalene              | ug/m3 | 4.3 U       | ND     |     | 25  |            |
| o-Xylene                 | ug/m3 | 1.4 U       | ND     |     | 25  |            |
| Toluene                  | ug/m3 | 0.73ქ       | .72J   |     | 25  |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





#### **QUALIFIERS**

Project:

277 United Clearfield Kwik Fil

Pace Project No.:

30143067

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitroscdiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

Date: 03/24/2015 01:46 PM

PASI-M Pace Analytical Services - Minneapolis





#### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

277 United Clearfield Kwik Fil

Pace Project No.:

Date: 03/24/2015 01:46 PM

30143067

| Lab ID      | Sample ID | QC Batch Method | QC Batch  | Analytical Method | Analytical<br>Batch |
|-------------|-----------|-----------------|-----------|-------------------|---------------------|
| 30143067001 | SG-1      | TO-15           | AIR/22800 |                   |                     |
| 30143067002 | SG-2      | TO-15           | AIR/22800 |                   |                     |
| 30143067003 | SG-2 Dup  | TO-15           | AIR/22800 |                   |                     |



# AIR: CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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| 14   3-12   10-28   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   3-12   10-15   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| 14   3-12   1026   3-12   116   -27   -5   20   -6   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phane: 612.607.6386

# Sample Condition Upon Receipt

| Pace Analytical                                                                                                | Client Name:                           | Letterie                | Pro                    | oject# <u>30143067</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Courier: ☐Fed E:                                                                                               | x DUPS DUSPS                           | _Client                 | al ∐Pace ☐Oth          | ner Optional: Proj. Due Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Custody Seal on Coo                                                                                            | ler/Box Present: ☐ye                   | es ⊟no Seals intac      | et:                    | Proj. Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Packing Material:<br>Thermometer Used                                                                          | □Bubble Wrap □Bub                      | • —                     |                        | s on ice, cooling process has begun<br>Date and initials of person examining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cooler Temperature                                                                                             |                                        | iological Tissue is Fro |                        | contents:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Temp should be above                                                                                           | freezing to 6°C                        |                         | Comments:              | ALEXANDER W. W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chain of Custody Prese                                                                                         | ent:                                   | ☐Yes ☐No ☐N/A           | 1.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chain of Custody Filled                                                                                        | Out:                                   | ☐Yes ☐No ☐N/A           | 2.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chain of Custody Relin                                                                                         | quished:                               | □Yes □No □N/A           | 3.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sampler Name & Signa                                                                                           | iture on COC:                          | □Yes □No □N/A           | 4, .                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Samples Arrived within                                                                                         | Hold Time:                             | □Yes □No □N/A           | 5.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Short Hold Time Analy                                                                                          | ysis (<72hr):                          | ☐Yes ☐No ☐N/A           | 6.                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Rush Turn Around Tir                                                                                           | ne Requested:                          | □Yes □No □N/A           | 7                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sufficient Volume:                                                                                             | <u> </u>                               | □Yes □No □N/A           | 8.                     | V 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Correct Containers Use                                                                                         | ed:                                    | □Yes □No □N/A           | 9.                     | 21111 <sup>12</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -Pace Containers Us                                                                                            | sed:                                   | □Yes □No □N/A           |                        | Ŏ.,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Containers Intact:                                                                                             |                                        | □Yes □No □N/A           | 10.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Filtered volume receive                                                                                        | d for Dissolved tests:                 | □Yes □No □N/A           | 11.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sample Labels match C                                                                                          | COC:                                   | □Yes ZNo □N/A           | 12,                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -Includes date/time/l                                                                                          | D/Analysis                             | Matrix:                 |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| All containers needing prese                                                                                   | ervation have been checked             | □Yes □No □N/A           | 13.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| All containers needing prese<br>compliance with EPA recoma                                                     | ervation are found to be in mendation. | □Yes □No □N/A           |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Exceptions; VOA, coliform, 1                                                                                   | TOC, 28G, WI-DRO (water)               | □Yes □No                | Initial when completed | Lot # of added preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Samples checked for de                                                                                         |                                        | □Yes □No □N/A           | 14.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Headspace in VOA Vial                                                                                          | ,,                                     | □Yes □No □N/A           | 15.                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Trip Blank Present:                                                                                            |                                        | □Yes □No □N/A           | 16,                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Trip Blank Custody Sea                                                                                         | Is Present:                            | □Yes □No □N/A           |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Pace Trip Blank Lot # (ii                                                                                      |                                        |                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Client Notification/Res                                                                                        | solution:                              |                         | Field                  | d Data Required? Y / N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Person Contacted:                                                                                              |                                        | Date/Time               |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Comments/Resolution:                                                                                           |                                        |                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Samples were delivered                                                                                         | directly to subcontracting             | g laboratory. No sample | received at Pace Pgl   | to check condition of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| damental in his 200 and a second and a second and a second and a second and a second and a second and a second |                                        |                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Project Manager Re                                                                                             | view:(XIIIII) VIM                      | ma                      | Date:                  | 3/17/15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



Pace Analytical Services, Inc. 1700 Elm Street – Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client: Phone: PASI PITTSBURGH

724-850-5600

Lab Project Number: 10299871

Project Name: 30143067 Letterle & Associates

Lab Sample No:

30143067001

ProjSampleNum: 30143067001

Date Collected: 03/12/15 10:38

Client Sample ID:

SG-1

Matrix: Air

Date Received: 03/17/15 9:45

| Parameters                | Results | Units | Report Limit | DF   | Analyzed           | CAS No.     | Qualifiers |
|---------------------------|---------|-------|--------------|------|--------------------|-------------|------------|
| Air<br>TO-15              |         |       |              |      |                    |             |            |
| 1,2,4-Trimethylbenzene    | ND      | mg/m3 | 0.0019       | 1.94 | 03/22/15 17:39 MJL | 95-63-6     |            |
| 1,3,5-Trimethylbenzene    | ND      | mg/m3 | 0.0019       | 1.94 | 03/22/15 17:39 MJL | 108-67-8    |            |
| Benzene                   | ND      | mg/m3 | 0.00063      | 1.94 | 03/22/15 17:39 MJL | 71-43-2     |            |
| Ethylbenzene              | ND      | mg/m3 | 0.0017       | 1.94 | 03/22/15 17:39 MJL | 100-41-4    |            |
| Isopropylbenzene (Cumene) | ND      | mg/m3 | 0.0048       | 1.94 | 03/22/15 17:39 MJL | 98-82-8     |            |
| m&p-Xylene                | ND      | mg/m3 | 0.0034       | 1.94 | 03/22/15 17:39 MJL | 179601-23-1 |            |
| Methyl-tert-butyl ether   | ND      | mg/m3 | 0.0014       | 1.94 | 03/22/15 17:39 MJL | 1634-04-4   |            |
| Naphthalene               | ND      | mg/m3 | 0.0052       | 1.94 | 03/22/15 17:39 MJL | 91-20-3     |            |
| o-Xylene                  | ND      | mg/m3 | 0.0017       | 1.94 | 03/22/15 17:39 MJL | 95-47-6     |            |
| Toluene                   | ND      | mg/m3 | 0.0015       | 1.94 | 03/22/15 17:39 MJL | 108-88-3    |            |
|                           |         |       |              |      |                    |             |            |

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.



Pace Analytical Services, Inc. 1700 Elm Street -- Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client:

PASI PITTSBURGH

Lab Project Number: 10299871

Phone: 724-850-5600

30143067002 Lab Sample No:

ProjSampleNum: 30143067002

Project Name: 30143067 Letterle & Associates

Date Collected: 03/12/15 11:16

Client Sample ID:

SG-2

Matrix: Air

Date Received: 03/17/15 9:45

| Parameters                | Results | Units | Report Limit | DF   | Analyzed           | CAS No.     | Qualifiers |
|---------------------------|---------|-------|--------------|------|--------------------|-------------|------------|
| Air                       |         |       |              |      |                    |             |            |
| TO-15                     |         |       |              |      |                    |             |            |
| 1,2,4-Trimethylbenzene    | 0.0071  | mg/m3 | 0.0016       | 1.57 | 03/22/15 18:10 MJL | 95-63-6     |            |
| 1,3,5-Trimethylbenzene    | 0.002   | mg/m3 | 0.0016       | 1.57 | 03/22/15 18:10 MJL | 108-67-8    |            |
| Benzene                   | 0.0022  | mg/m3 | 0.00051      | 1.57 | 03/22/15 18:10 MJL | 71-43-2     |            |
| Ethylbenzene              | 0.0077  | mg/m3 | 0.0014       | 1.57 | 03/22/15 18:10 MJL | 100-41-4    |            |
| Isopropylbenzene (Cumene) | ND      | mg/m3 | 0.0039       | 1.57 | 03/22/15 18:10 MJL | 98-82-8     |            |
| m&p-Xylene                | 0.016   | mg/m3 | 0.0028       | 1.57 | 03/22/15 18:10 MJL | 179601-23-1 |            |
| Methyl-tert-butyl ether   | ND      | mg/m3 | 0.0011       | 1.57 | 03/22/15 18:10 MJL | 1634-04-4   |            |
| Naphthalene               | ND      | mg/m3 | 0.0042       | 1.57 | 03/22/15 18:10 MJL | 91-20-3     | •          |
| o-Xylene                  | 0.0028  | mg/m3 | 0.0014       | 1.57 | 03/22/15 18:10 MJL | 95-47-6     |            |
| Toluene                   | 0.0048  | mg/m3 | 0.0012       | 1.57 | 03/22/15 18:10 MJL | 108-88-3    |            |

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.



Pace Analytical Services, Inc. 1700 Eim Street - Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700

Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client:

PASI PITTSBURGH

Lab Project Number: 10299871

Project Name: 30143067 Letterle & Associates

Phone: Lab Sample No:

724-850-5600

ProjSampleNum: 30143067003

Date Collected: 03/12/15 11:16

Client Sample ID:

30143067003 SG-2 Dup

Matrix: Air

Date Received: 03/17/15 9:45

| Parameters                | Results | Units | Report Limit | DF   | Analyzed           | CAS No.     | Qualifiers |
|---------------------------|---------|-------|--------------|------|--------------------|-------------|------------|
| Air                       |         |       |              |      |                    | •           |            |
| TO-15                     |         |       |              |      |                    |             |            |
| 1,2,4-Trimethylbenzene    | ND      | mg/m3 | 0.0016       | 1.57 | 03/22/15 18:41 MJL | 95-63-6     |            |
| 1,3,5-Trimethylbenzene    | ND      | mg/m3 | 0.0016       | 1.57 | 03/22/15 18:41 MJL | 108-67-8    |            |
| Benzene                   | 0.0016  | mg/m3 | 0.00051      | 1.57 | 03/22/15 18:41 MJL | 71-43-2     |            |
| Ethylbenzene              | ND      | mg/m3 | 0.0014       | 1.57 | 03/22/15 18:41 MJL | 100-41-4    |            |
| Isopropylbenzene (Cumene) | ND      | mg/m3 | 0.0039       | 1.57 | 03/22/15 18:41 MJL | 98-82-8     |            |
| m&p-Xylene                | 0.004   | mg/m3 | 0.0028       | 1.57 | 03/22/15 18:41 MJL | 179601-23-1 |            |
| Methyl-tert-butyl ether   | ND      | mg/m3 | 0.0011       | 1.57 | 03/22/15 18:41 MJL | 1634-04-4   |            |
| Naphthalene               | ND      | mg/m3 | 0.0042       | 1.57 | 03/22/15 18:41 MJL | 91-20-3     |            |
| o-Xylene                  | ND      | mg/m3 | 0.0014       | 1.57 | 03/22/15 18:41 MJL | 95-47-6     |            |
| Tolueпе                   | 0.0041  | mg/m3 | 0.0012       | 1.57 | 03/22/15 18:41 MJL | 108-88-3    |            |

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.



Pace Analytical Services, Inc. 1700 Elm Street – Suite 200 Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

#### **ANALYTICAL RESULTS**

Client:

PASI PITTSBURGH

Phone: 724-85

724-850-5600

Lab Project Number: 10299871

Project Name: 30143067 Letterle & Associates

## **PARAMETER FOOTNOTES**

# Appendix D Lawrence Township Ordinance

Township of Lawrence, PA Thursday, July 18, 2013

# Chapter 96. SEWER AND WATER

# Article VI. Water Connection Required

#### [Adopted by Ord. No. 96-2]

### § 96-23. Definitions.

As used in this article, the following terms shall have the meanings indicated, unless a different meaning clearly appears from the context:

#### **AUTHORITY SERVICE LINE**

Part of the water system extending from a main to the curbline or, if there shall be no curbline, extending to the property line or other location on public property where the Clearfield Municipal Authority or the Pike Township Municipal Authority shall terminate its service line.

#### **BUILDING SERVICE**

Extension from the water system of any structure to the Clearfield Municipal Authority or the Pike Township Municipal Authority service line.

#### CLEARFIELD MUNICIPAL AUTHORITY

A body corporate and politic organized under the Municipality Authorities Act of 1945 Editor's Note: See 53 P.S. \$ 301 et seq. incorporated by Lawrence Township and Clearfield Borough.

#### IMPROVED PROPERTY

Any property within Lawrence Township upon which there is erected a structure intended for continuous or periodic habitation, occupancy or use by human beings or animals.

#### INDUSTRIAL ESTABLISHMENT

Any improved property located within Lawrence Township and used or intended for use, wholly or in part, for the manufacturing, processing, cleaning, laundering or assembling of any product, commodity or article.

#### MAIN

Any pipe or conduit constituting a part of the water system used or usable for water distribution purposes.

#### OWNER

Any person vested with ownership, legal or equitable, sole or partial, of any improved property.

#### PERSON

Any individual, partnership, company, association, society, trust, corporation, municipality, municipal authority or other group or entity.

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#### PIKE TOWNSHIP MUNICIPAL AUTHORITY

A body corporate and politic organized under the Municipality Authorities Act of 1945 incorporated by Pike Township.

#### **WATER SYSTEM**

All facilities, as of any particular time, for production, transmission, storage and distribution of water in Lawrence Township owned by the Clearfield Municipal Authority or the Pike Township Municipal Authority.

# § 96-24. Use of public water system required.

- A. The owner of any improved property abutting upon the water system, except a farm which has its own supply of water for uses other than human consumption, shall connect such improved property with and shall use such water system in such manner as Lawrence Township and may require, within 90 days after notice to such owner from Lawrence Township to make such connection; subject to such limitations and restrictions as shall be established herein or otherwise shall be established by Lawrence Township.
- B. The notice by Lawrence Township to make connection to a main referred to in Subsection A shall consist of a copy of this article, including any amendments and/or supplements at the time in effect, or a summary of each section thereof, and a written or printed document requiring the connection in accordance with the provisions of this article and specifying that such connection shall be made within 90 days after the date such notice is given or served. Such notice may be given or served at any time after a main is in place which can deliver water to the particular improved property. Such notice shall be given or served upon the owner in accordance with law.

# § 96-25. Building service and connections.

- A. No person shall uncover, connect with, make any opening into, use, alter or disturb, in any manner, any part of the water system operated by the Authority(les) without first paying the appropriate tap fees and receiving a receipt for such in writing from the Authority(ies).
- B. Application for a permit required under Subsection A of this section shall be made by the owner of the improved property served or to be served with notice as provided in § 96-24A, or by the duly authorized agent of such owner.
- C. No person shall make or shall cause to be made a connection of any type to an Authority service line until such person fulfills each of the following conditions:

- (1) Notify the Clearfield Municipal Authority or the Pike Township Municipal Authority of the desire and intention to connect such improved property to a main;
- (2) Apply for and pay for the appropriate tap fee as required by Subsection A of this section; and
- (3) Give the Clearfield Municipal Authority or the Pike Township Municipal Authority at least five working days' notice before a paid service tap needs to be installed, and at least 24 hours' notice for inspection before the building service will be connected to the Authority service line in order that the Clearfield Municipal Authority or the Pike Township Municipal Authority may supervise and inspect or may cause to be supervised and inspected the work of connection and necessary testing.
- D. Except as otherwise provided in this Subsection D, each improved property shall be connected separately and independently with a main through a building service. Grouping of more than one improved property on one building service shall not be permitted, except under special circumstances and for good cause shown, but then only after special permission of the Clearfield Municipal Authority or the Pike Township Municipal Authority, in writing, shall have been secured and only subject to such rules, regulations and conditions as may be prescribed by the Clearfield Municipal Authority or the Pike Township Municipal Authority.
- E. All costs and expenses of construction of a building service and all costs and expenses of connection of a building service to the Clearfield Municipal Authority or the Pike Township Municipal Authority service line shall be borne by the owner of the improved property to be connected; and such owner shall indemnify and shall save harmless the Clearfield Municipal Authority or the Pike Township Municipal Authority from all loss or damage that may be occasioned, directly or indirectly, as a result of construction of a building service or of connection of a building service to an Authority service line.
- F. A building service main shall be connected to an Authority service line at a place designated by the Clearfield Municipal Authority or the Pike Township Municipal Authority. A smooth, neat joint shall be made and the connection of a building main to the lateral shall be made secure and watertight.
- G. If the owner of any improved property located within the Clearfield Municipal Authority or the Pike Township Municipal Authority and abutting upon the water system, subject to the exception provided for In § 96-24A, after 90 days' notice from the Clearfield Municipal Authority or the Pike Township Municipal Authority in accordance with § 96-24A, shall fail to connect such improved property, the Clearfield Municipal Authority or the Pike Township Municipal Authority may construct such connection and collect from such owner the costs and expenses thereof in any manner permitted by law.

# § 96-26. Building mains and connections to mains.

A. No building service shall be covered until it has been inspected and approved by the Clearfield Municipal Authority or the Pike Township Municipal Authority. If any part of a

building service is covered before so being inspected and approved, it shall be uncovered for inspection, at the cost and expense of the owner of the improved property to be connected to an Authority service line.

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- B. Every building service of any improved property shall be maintained in a sanitary and safe operating condition by the owner of such improved property.
- C. Every excavation for a building service shall be guarded adequately with barricades and lights to protect all persons from damage and injury. Any street, sidewalk or other public property disturbed in the course of installation of a building service shall be restored, at the cost and expense of the owner of the improved property being connected, in a manner satisfactory to the Clearfield Municipal Authority or the Pike Township Municipal Authority.
- D. If any person shall fall or shall refuse, upon receipt of a notice in writing of the Clearfield Municipal Authority or the Pike Township Municipal Authority, to remedy any unsatisfactory condition with respect to a building service within 60 days of receipt of such notice, the Clearfield Municipal Authority or the Pike Township Municipal Authority may refuse to permit such person to be served by the water system until such unsatisfactory condition shall have been remedied to the satisfaction of the Clearfield Municipal Authority or the Pike Township Municipal Authority.
- E. The Clearfield Municipal Authority or the Pike Township Municipal Authority reserves the right to adopt, from time to time, additional rules and regulations it shall deem necessary and proper relating to connections of a building service with the Authority(ies) water system, which additional rules and regulations, to the extent appropriate, shall be and shall be construed as part of this article.

# § 96-27. Appeals; hardship.

In the event any person shall deem the requirement to connect as provided in this article a hardship, such person may appeal to the Clearfield Municipal Authority or the Pike Township Municipal Authority for relief from such connection requirement, which appeal shall be heard in accordance with provisions of the Pennsylvania Local Agency Law. Editor's Note: See 2 Pa.C.S.A. § 551 et seq. and § 751 et seq.

# § 96-28. Violations and penalties.

[Amended 5-2-2000 by Ord. No. 2000-2] Any person who violates or permits a violation of this article shall, upon conviction in a summary proceeding brought before a District Justice under the Pennsylvania Rules of Criminal Procedure, be guilty of a summary offense and shall be punishable by a fine of not less than \$50 nor more than \$1,000, plus costs of prosecution. In default of payment thereof, the defendant may be sentenced to imprisonment for a term not exceeding 30 days. Each day or portion thereof that such violation continues or is permitted to continue shall constitute a separate offense, and each section of this article that is violated shall also constitute a separate offense.

# Appendix E PAGWIS Database Search Results



Geological Survey

About the Survey

Economic Resources Geology of PA

Geologic Hazards

Groundwater

Web-Mapping Application

GeoLinks **Contact the Survey** 

**Publications** and Digital Data

Classroom

Collecting

**ONLINE SERVICES** 

Search PA

Tom Wolf, Governor Cindy Adams Dunn, Acting Secretary

DCNR Home: Geological Survey: Groundwater: PaGWIS: Records

#### **PaGWIS Records**

Radial Search

This retrieval approximates a radial search around a fixed location, the results will include wells in the "corners" of this figure.

Enter the coordinates of the center in decimal-degree format and the radius of the search in miles.

All fields must be filled in to perform the search. The longitude must be a negative number.

OMultiple Criteria O Polygon Search Radlal Search

Longitude : -78.455469

41.005005 Latitude :

Radius in Miles : 0.5

Preview List | Create List | Clear Selections

"Preview List" creates a list which contains links to individual well information. You can choose to create a comma separated list from the preview.
"Create List" creates a comma separated list without viewing the selection first,
If you choose to open the file it may open in Excel if you have Microsoft Office installed.

Search DCNR \*80

Total Records Returned: 13 Records | Click on the column headers to sort the Search Results.

| PA<br>Well<br>ID | <u>Driller</u>                                           | Driller Ref   | Date Drilled       | <u>Owner</u>                             | County      | Municipality  | Image |
|------------------|----------------------------------------------------------|---------------|--------------------|------------------------------------------|-------------|---------------|-------|
| <u>507595</u>    | DMS<br>ENVIRONMENTAL<br>SERVICES, LLC                    | LT MW-01      | 6/18/2013          | LAWRENCE<br>TOWNSHIP<br>MUNICIPAL GARAGE | CLEARFIELD  | LAWRENCE TWP. |       |
| <u>507598</u>    | DMS<br>ENVIRONMENTAL<br>SERVICES, LLC                    | LT MW-02      | 6/18/2013          | LAWRENCE<br>TOWNSHIP<br>MUNICIPAL GARAGE | CLEARFIELD  | LAWRENCE TWP. |       |
| 507597           | OMS<br>ENVIRONMENTAL<br>SERVICES, LLC                    | LT MW-03      | 6/18/2013          | LAWRENGE<br>TOWNSHIP<br>MUNICIPAL GARAGE | CLEARFIELD  | LAWRENCE TWP. |       |
|                  | DMS<br>ENVIRONMENTAL<br>SERVICES, LLC                    | LT MW-04      | 6/18/2013          | LAWRENCE<br>TOWNSHIP<br>MUNICIPAL GARAGE | CLEARFIELD  | LAWRENCE TWP. |       |
| 507599           | OMS<br>ENVIRONMENTAL<br>SERVICES, LLC                    | LT MW-05      | 6/18/2013          | LAWRENCE<br>TOWNSHIP<br>MUNICIPAL GARAGE | CLEARFIELD  | LAWRENCE TWP. |       |
| 505232           | PARRATT-WOLFF<br>INC                                     | MW-01 (13710) | 2/14/2013          | LAWRENCE<br>TOWNSHIP                     | CLEARFIELD  | LAWRENCE TWP, |       |
|                  | PARRATT-WOLFF INC                                        | MW-02 (13710) | 2/1 <b>4/2</b> 013 | LAWRENCE<br>TOWNSHIP                     | CLEARFIELD  | LAWRENCE TWP. | ,     |
| 505276           | PARRATT-WOLFF                                            | MW-03 (13710) | 2/14/2013 .        | LAWRENCE<br>TOWNSHIP                     | CLEARFIELD  | LAWRENCE TWP. | ,     |
|                  | PARRATT-WOLFF<br>INC                                     | MW-04 (13710) | 2/14/2013          | LAWRENCE<br>TOWNSHIP                     | CLEARFIELD. | LAWRENCE TWP. |       |
| 505278           | PARRATT-WOLFF                                            | MW-05 (13710) | 2/14/2013          | LAWRENCE<br>TOWNSHIP                     | CLEARFIELD  | LAWRENCE TWP. |       |
| 497324           | JM2<br>ENVIRONMENTAL<br>INC DBA KODIAK<br>FIELD SERVICES | 623 MW-31R    | 8/28/2010          | KWIK FILL #M-90                          | CLEARFIELO  | LAWRENCE TWP. |       |
|                  | ROBERT I.<br>CRYSTER JR                                  |               | 2/10/1975<br>·     | CROFTS FOOD MRKT                         | GLEARFIELD  | LAWRENCE TWP. |       |
| 13464            | D L GILKEY                                               |               |                    | AMERICAN MOND<br>NICKEL COMPANY          | CLEARFIELD  | LAWRENCE TWP, |       |

DCNR Home | Contact DCNR | Privacy Policy | Security Policy | PA Home

#### DEPARTMENT OF CONSERVATION & NATURAL RESOURCES BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY water well licensing/water well inventory section 3240 Schoolhouse Rd Middletown, PA 17057 717-702-2017

# WATER WELL DETAILS

**DMS** 

Well Driller: ENVIRONMENTAL

PA Well ID: 507595

SERVICES, LLC

Driller License: 2529

Driller Well ID: LT MW-01

Type of Activity: Well Abandonment

Local Permit #:

Reason for Abandonment: Well was unused

Original Well By: UNKNOWN

Date Drilled: 6/18/2013

Drilling Method: BORED OR AUGERED

Owner: Lawrence Township Municipal Garage

Address of Well: 508 George Street

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle: CLEARFIELD

Latitude: **41.005** 

Longitude: -78.452

Well Depth (ft): 21.61

Well Finish:

Depth to Bedrock (ft):

Did Not Encounter Bedrock:

Well-Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING

Use of Water: UNUSED

#### DRILLER'S LOG

UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

#### BOREHOLE

| WebDriller - | Water | Well | Comp | letion | Rei | oort |
|--------------|-------|------|------|--------|-----|------|
|              |       |      |      |        |     |      |

Page 2 of 2

| <u>-</u> |
|----------|
|          |

#### DEPARTMENT OF CONSERVATION & NATURAL RESOURCES BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY WATER WELL LICENSING/WATER WELL INVENTORY SECTION 3240 Schoolhouse Rd Middletown, PA 17057 717-702-2017

# WATER WELL DETAILS

**DMS** 

Well Driller: ENVIRONMENTAL

PA Well ID: 507596

SERVICES, LLC

Driller License: 2529

Driller Well ID: LT MW-02

Type of Activity: Well Abandonment

Local Permit #:

Reason for Abandonment: Well was unused

Original Well By: UNKNOWN

Date Drilled: 6/18/2013

Drilling Method: BORED OR AUGERED

Owner: Lawrence Township Municipal Garage

Address of Well: 508 George Street

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle: CLEARFIELD

Latitude: 41.005

Longitude: -78.452

Well Depth (ft): 13.59

Well Finish:

Depth to Bedrock (ft):

Did Not Encounter Bedrock:

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING

Use of Water: UNUSED

#### DRILLER'S LOG

UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

#### BOREHOLE

| WebDriller - Water Well Completion Report | Page 2 of |
|-------------------------------------------|-----------|
|                                           |           |
| CASING                                    |           |
| SCREEN/SLOT                               | ·         |
| WELL LINER                                |           |
|                                           |           |
| PACKER                                    |           |

WATER BEARING ZONE

#### DEPARTMENT OF CONSERVATION & NATURAL RESOURCES BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY WATER WELL LICENSING/WATER WELL INVENTORY SECTION 3240 Schoolhouse Rd Middletown, PA 17057 717-702-2017

# WATER WELL DETAILS

**DMS** 

Well Driller: ENVIRONMENTAL

PA Well ID: 507597

SERVICES, LLC

Driller License: 2529

Driller Well ID: LT MW-03

Type of Activity: Well Abandonment

Local Permit #:

Reason for Abandonment: Well was unused

Original Well By: UNKNOWN

Date Drilled: 6/18/2013

Drilling Method: BORED OR AUGERED

Owner: Lawrence Township Municipal Garage

Address of Well: 508 George Street

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle: CLEARFIELD

Latitude: 41.005

Longitude: -78.452

Well Depth (ft): 13.52

Well Finish:

Depth to Bedrock (ft):

Did Not Encounter Bedrock:

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING

Use of Water: UNUSED

#### DRILLER'S LOG

#### UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

#### BOREHOLE

|             | Page 2 of 2 |
|-------------|-------------|
|             |             |
| <del></del> | ·           |
|             |             |
|             |             |
|             |             |

WebDriller - Water Well Completion Report

CASING SCREEN/SLOT WELL LINER

PACKER

WATER BEARING ZONE

# WATER WELL DETAILS

**DMS** 

Well Driller: ENVIRONMENTAL PA Well ID: 507598

SERVICES, LLC

Driller License: 2529 Driller Well ID: LT MW-04

Type of Activity: Well Abandonment Local Permit #:

Reason for Abandonment: Well was unused Original Well By: UNKNOWN

Date Drilled: 6/18/2013 Drilling Method: BORED OR AUGERED

Owner: Lawrence Township Municipal Garage

Address of Well: 508 George Street Zipcode:

County: **CLEARFIELD** 

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle: CLEARFIELD Latitude: 41.005 Longitude: -78.452

Well Depth (ft): 18.62 Well Finish:

Depth to Bedrock (ft): Did Not Encounter Bedrock:

Well Yield (gpm): Yield Measure Method:

Static Water Level: Water level after yield test:

(ft below land surface) (ft below land surface)

Length of Yield Test: Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING Use of Water: UNUSED

#### DRILLER'S LOG

#### UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

#### BOREHOLE

| WebDriller - Water Well Completion Report |   |          | Page 2 of 2 |  |
|-------------------------------------------|---|----------|-------------|--|
|                                           | • |          |             |  |
| I-                                        |   |          |             |  |
|                                           |   |          |             |  |
| CASING                                    |   |          | ·           |  |
| ——————————————————————————————————————    | , |          |             |  |
| SCREEN/SLOT                               |   |          |             |  |
|                                           |   |          |             |  |
| WELL LINER                                |   |          |             |  |
|                                           |   |          | •           |  |
| PACKER                                    |   |          |             |  |
| PACKER                                    |   | <u>.</u> |             |  |

# WATER WELL DETAILS

**DMS** 

Well Driller: ENVIRONMENTAL

PA Well ID: 507599

SERVICES, LLC

Driller License: 2529

Driller Well ID: LT MW-05

Type of Activity: Well Abandonment

Local Permit #:

Reason for Abandonment: Well was unused

Original Well By: UNKNOWN

Date Drilled: 6/18/2013

Drilling Method: BORED OR AUGERED

Owner: Lawrence Township Municipal Garage

Address of Well: 508 George Street

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle: CLEARFIELD

Latitude: 41.005

Longitude: -78.452

Well Depth (ft): 18.8

Well Finish:

Depth to Bedrock (ft):

Did Not Encounter Bedrock:

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

Branc Water Level.

(ft below land surface)

(ft below land surface)

Vi below iana surjace)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING

Use of Water: UNUSED

# DRILLER'S LOG

UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

#### BOREHOLE

| Page 2 | of | 2 |
|--------|----|---|
|--------|----|---|

|                 |                                       | 1 |                                       |   |  |
|-----------------|---------------------------------------|---|---------------------------------------|---|--|
| CASING          |                                       |   | <u> </u>                              | ; |  |
|                 |                                       |   |                                       |   |  |
| SCREEN/SLOT     | · · · · · · · · · · · · · · · · · · · |   | <u> </u>                              |   |  |
| WELL LINER      |                                       |   |                                       |   |  |
| PACKER          |                                       |   | · · · · · · · · · · · · · · · · · · · |   |  |
| WATER BEARING Z | ONE                                   |   |                                       |   |  |

# WATER WELL DETAILS

PARRATT-WOLFF Well Driller:

PA Well ID: 505232

INC

Driller Well ID: MW-01 (13710)

Driller License: 2186 Type of Activity: New Well

Local Permit #:

Original Well By: CURRENT DRILLER

Date Drilled: 2/14/2013

Drilling Method: OTHER/UNKNOWN

Owner: Lawrence Township

Address of Well:

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle:

Latitude: 41.00553 Longitude: -78.45244

Well Depth (ft): 22

Well Finish: SCREEN

Depth to Bedrock (ft):

Did Not Encounter Bedrock: X

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

(ft below land surface)

Water level after yield test: (ft below land surface)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING

Use of Water: OTHER

#### DRILLER'S LOG

#### DESCRIPTION OF UNITS PENETRATED UNIT TOP **UNIT BOTTOM**

Unit Bottom 1: 4 Unit 1: Gray moist silt and clay Unit Top 1: 0

Unit Top 2: 4 Unit Bottom 2: 17 Unit 2: Gray brown wet silt and clay, little fine gravel Unit Top 3: 17 Unit Bottom 3: 24 Unit 3: Gray wet sand and silt

BOREHOLE

Top: 0 Bottom: 24 Diameter: 3 Section 1:

CASING

Casing 1:

PVC OR OTHER Top: 0 Bottom: 7 Diameter: 1.25 Material:

**PLASTIC** 

Seal(Grout) 1:

Top: 0 Bottom: 7 Type: BENTONITE CHIPS OR PELLETS

SCREEN/SLOT

Screen 1: Top: 7 Bottom: 22 Diameter: 1.25

Type: SCREEN

Slot Size: 0.01 Material: PLASTIC

Packing: SAND - SCREENED

WELL LINER

PACKER

# WATER WELL DETAILS

PARRATT-WOLFF Well Driller:

PA Well ID: 505233

Driller License: 2186

Driller Well ID: MW-02 (13710)

Type of Activity: New Well

Local Permit #:

Original Well By: CURRENT DRILLER

Date Drilled: 2/14/2013

Drilling Method: OTHER/UNKNOWN

Owner: Lawrence Township

Address of Well:

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle:

Latitude: 41.00553 Longitude: -78.45244

Well Depth (ft): 14

Well Finish: SCREEN

Depth to Bedrock (ft):

Did Not Encounter Bedrock: X

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test:

(minutes)

Saltwater Zone (ft):

Use of Well: MONITORING

Use of Water: OTHER

#### DRILLER'S LOG

UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED UNIT TOP

Unit Top 1: 0 Unit Bottom 1: 4 Unit 1: Gray Moist silt and clay

Unit Top 2: 4 Unit Bottom 2: 13 Unit 2: Gray wet silt and clay

Unit Top 3: 13 Unit Bottom 3: 16

Unit 3: Gray wet sand and silt

BOREHOLE

Top: 0 Bottom: 16 Section 1:

Diameter: 3

CASING

Casing 1:

PVC OR OTHER Top: 0 Bottom: 4 Diameter: 1.25 Material:

PLASTIC

Seal(Grout) 1:

Top: 0 Bottom: 4 Type: BENTONITE CHIPS OR PELLETS

SCREEN/SLOT

Screen 1: Top: 4 Bottom: 14 Diameter: 1.25

Type: SCREEN

Slot Size: 0.01 Material: PLASTIC

Packing: SAND - SCREENED

WELL LINER

PACKER

# WATER WELL DETAILS

Well Driller: PARRATT-WOLFF

PA Well ID: 505276

Driller License: 2186

Driller Well ID: MW-03 (13710)

Type of Activity: New Well

Local Permit #:

Original Well By: CURRENT DRILLER

Date Drilled: 2/14/2013

Drilling Method: OTHER/UNKNOWN

Owner: Lawrence Township

Address of Well:

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle:

Latitude: 41.00553 Longitude: -78.45244

Well Depth (ft): 14

Well Finish: SCREEN

Depth to Bedrock (ft):

Did Not Encounter Bedrock: X

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Statio Water Level.

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING

Use of Water: OTHER

#### DRILLER'S LOG

### UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

Unit Top 1: 0 Unit Bottom 1: 4

Unit 1: Gray Moist silt and clay

Unit Top 2: 4 Unit Bottom 2: 8

Unit 2: Gray wet silt and clay

Unit Top 3: 8 Unit Bottom 3: 14

Unit 3: Gray wet silt and clay

Unit Top 4: 14 Unit Bottom 4: 16

Unit 4: Gray wet sand and silt

BOREHOLE

Section 1:

Top: **0** 

Bottom: 16

Diameter: 3

CASING

Casing 1:

Top: 0 Bottom: 4 Diameter: 1.25 Material:

PVC OR OTHER

PLASTIC

Seal(Grout) 1:

Top: 0 Bottom: 4

Type: BENTONITE CHIPS OR PELLETS

SCREEN/SLOT

Screen 1:

Top: 4

Bottom: 14

Diameter: 1.25

Type: SCREEN

Material: PLASTIC

Slot Size: 0.01

Packing: SAND - SCREENED

WELL LINER

PACKER

# WATER WELL DETAILS

PARRATT-WOLFF Well Driller:

PA Well ID: 505277

Driller License: 2186

Driller Well ID: MW-04 (13710)

Type of Activity: New Well

Local Permit #:

Original Well By: CURRENT DRILLER

Date Drilled: 2/14/2013

Drilling Method: OTHER/UNKNOWN

Owner: Lawrence Township

Address of Well:

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle:

Latitude: 41.00553 Longitude: -78.45243

Well Depth (ft): 19

Well Finish: SCREEN

Depth to Bedrock (ft):

Did Not Encounter Bedrock: X

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

Use of Well: MONITORING

Use of Water: OTHER

#### DRILLER'S LOG

**UNIT BOTTOM** DESCRIPTION OF UNITS PENETRATED **UNIT TOP** 

Unit Bottom 1: 4 Unit 1: Gray Moist silt and clay Unit Top 1: 0

Unit Bottom 2: 17 Unit 2: Gray wet silt and clay, some small gravel Unit Top 2: 4

Unit Top 3: 17 Unit Bottom 3: 20 Unit 3: Gray wet sand

BOREHOLE

Section 1: Top: 0 Bottom: 20 Diameter: 3

CASING

Casing 1:

Top: 0 Bottom: 4 Diameter: 1.25 Material: PVC OR OTHER

PLASTIC

Seal(Grout) 1:

Top: 0 Bottom: 4 Type: BENTONITE CHIPS OR PELLETS

SCREEN/SLOT

Screen 1: Top: 4 Bottom: 19 Diameter: 1.25

Type: SCREEN

Material: PLASTIC Slot Size: 0.01

Packing: SAND - SCREENED

WELL LINER

PACKER

# WATER WELL DETAILS

Well Driller: PARRATT-WOLFF

PA Well ID: 505278

Driller License: 2186

Driller Well ID: MW-05 (13710)

Type of Activity: New Well

Local Permit #:

Original Well By: CURRENT DRILLER

Date Drilled: 2/14/2013

Drilling Method: OTHER/UNKNOWN

Owner: Lawrence Township

Address of Well:

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle:

Latitude: 41.00553 Longitude: -78.45244

Well Depth (ft): 19

Well Finish: SCREEN

Depth to Bedrock (ft):

Did Not Encounter Bedrock: X

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test:

Saltwater Zone (ft):

(minutes)

(minutes)

Use of Well: MONITORING

Use of Water: STOCK

#### DRILLER'S LOG

UNIT TOP UNIT BOTTOM

DESCRIPTION OF UNITS PENETRATED

Unit Top 0

Unit Bottom

Unit 1:

gray Moist silt and clay

Unit Top 4 Unit Bottom 18 Unit 2: Gray wet silt and clay, little fine to medium gravel Unit Top 3: 18 Unit Bottom 20 Unit 3: Gray wet sand and silt

BOREHOLE

Top: 0 Bottom: 20 Diameter: 3 Section 1:

CASING

Casing 1:

PVC OR OTHER Top: 0 Bottom: 4 Diameter: 1.25 Material:

PLASTIC

Seal(Grout) 1:

Type: BENTONITE CHIPS OR PELLETS Top: 0 Bottom: 4

SCREEN/SLOT

Screen 1: Top: 4 Bottom: 19 Diameter: 1.25

Type: SAND POINT

Slot Size: 0.01 Material: PLASTIC

Packing: SAND - SCREENED

WELL LINER

PACKER

# WATER WELL DETAILS

JM2

**ENVIRONMENTAL** Well Driller:

PA Well ID: 497324 INC DBA KODIAK

FIELD SERVICES

Driller License: 2471

Driller Well ID: 623 MW-31R

Type of Activity: New Well

Local Permit#:

Original Well By: CURRENT DRILLER

Date Drilled: 8/26/2010

Drilling Method: BORED OR AUGERED

Owner: Kwik Fill #M-90

Address of Well: 1322 South Second, Clearfield

Zipcode: **16830** 

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method: Commercial Street Atlas Program

Quadrangle:

Latitude: 41.005

Longitude: -78.45555

Well Depth (ft): 19

GRAVEL PACK Well Finish:

W/SCREEN

Depth to Bedrock (ft):

Did Not Encounter Bedrock: X

Well Yield (gpm):

Yield Measure Method:

Static Water Level:

Water level after yield test:

(ft below land surface)

(ft below land surface)

Length of Yield Test: (minutes) 1 Saltwater Zone (ft):

Use of Well: MONITORING

Use of Water: UNUSED

#### DRILLER'S LOG

UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

Unit 1: CLAY Unit Top 1: 0 Unit Bottom 1: 5

Unit Top 2: 5 Unit Bottom 2: 10 Unit 2: SAND/CLAY/GRAVEL

Unit 3: GRAVEL/SHALE Unit Top 3: 10 Unit Bottom 3: 19

#### **BOREHOLE**

Top: 0 Bottom: 19 Diameter: 8.5 Section 1:

### CASING

#### Casing 1:

PVC OR OTHER Top: 0 Bottom: 5 Diameter: 4 Material:

Seal(Grout) 1:

Type: BENTONITE CHIPS OR PELLETS Top: 1 Bottom: 3

#### SCREEN/SLOT

Top: 3 Bottom: 14 Diameter: 4 Screen 1:

Type: SCREEN

Material: PLASTIC Slot Size: 0.02

Packing: SAND - SCREENED

#### WELL LINER

### PACKER

# WATER WELL DETAILS

Well Driller: D L GILKEY

PA Well ID: 13464

Driller License: 0311

Driller Well ID:

Type of Activity:

Local Permit #:

Original Well By: UNKNOWN

Date Drilled:

Drilling Method: CABLE TOOL

Owner: AMERICAN MOND NICKEL COMPANY

Address of Well:

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method:

Quadrangle: LUTHERSBURG

Latitude: 41

Longitude: -78.46167

Well Depth (ft): 107

Well Finish: OPEN HOLE

Depth to Bedrock (ft):

Did Not Encounter Bedrock:

Well Yield (gpm): 832

Yield Measure Method: BAILER

Static Water Level: 10

Water level after yield test: 35

(ft below land surface)

(ft below land surface)

Length of Yield Test: 8

Saltwater Zone (ft):

(minutes)

Use of Well: UNUSED

Use of Water: UNUSED

#### DRILLER'S LOG

### UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

#### BOREHOLE

Section 1:

Top: 0 Bottom: 107

Diameter: 0

CASING

Casing 1:

Top: 0 Bottom: 50

Diameter: 12

Material: UNKNOWN

Seal(Grout) 1:

Top:

F Bottom:

Type:

SCREEN/SLOT

WELL LINER

PACKER

# WATER WELL DETAILS

ROBERT L Well Driller:

PA Well ID: 13463

Driller License: 0042

Driller Well ID:

Type of Activity:

Local Permit #:

Original Well By: UNKNOWN

Date Drilled: 2/10/1975

Drilling Method: OTHER/UNKNOWN

Owner: CROFTS FOOD MRKT

Address of Well:

Zipcode:

County: CLEARFIELD

Municipality: LAWRENCE TWP.

Coordinate Method:

Quadrangle: GLEN RICHEY

Latitude: 40.99917

Longitude: -78.46056

Well Depth (ft): 72

Well Finish: OPEN HOLE

Depth to Bedrock (ft):

Did Not Encounter Bedrock:

Well Yield (gpm): 40

Yield Measure Method: BAILER

Static Water Level: 22

Water level after yield test:

(ft below land surface)

(ft below land surface)

Saltwater Zone (ft):

Length of Yield Test: 3

(minutes)

Use of Well: WITHDRAWAL

Use of Water: **DOMESTIC** 

#### DRILLER'S LOG

### UNIT TOP UNIT BOTTOM DESCRIPTION OF UNITS PENETRATED

#### BOREHOLE

Section 1: Top: 0 Bottom: 72 Diameter: 6

CASING

Casing 1:

Top: 0 Bottom: 24 Diameter: 6 Material: UNKNOWN

Seal(Grout) 1:

Top: Bottom: Type:

SCREEN/SLOT

WELL LINER

PACKER

WATER BEARING ZONE

Zone 1: Top: 45 Bottom: Yield:

Zone 2: Top: 60 Bottom: Yield:

# Appendix F PNDI Environmental Review

## 1. PROJECT INFORMATION

Project Name: United Refining - Kwik Fill M-90

Date of review: 3/19/2015 11:59:10 AM

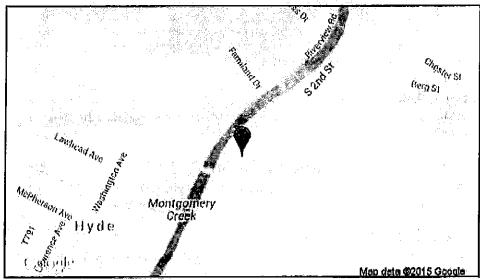
Project Category: Hazardous Waste Clean-up, Site Remediation, and Reclamation, Other

Project Area: N/A

County: Clearfield Township/Municipality: Lawrence Quadrangle Name: CLEARFIELD ~ ZIP Code: 16830

Decimal Degrees: 41.005 N, -78.455500 W

Degrees Minutes Seconds: 41° 0' 18" N, -78° 27' 19.8" 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.

#### 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 <u>federally</u> 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. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <a href="http://www.naturalheritage.state.pa.us">http://www.naturalheritage.state.pa.us</a>.

## 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 110 Radnor Rd; St 400 Market Street, PO Box 8552, Harrisburg, PA. NO Faxes Please. 17105-8552

Fax:(717) 772-0271

# U.S. Fish and Wildlife Service

Pennsylvania Field Office 110 Radnor Rd; Sulte 101, State College, PA 16801 NO Faxes Please.

#### **PA Fish and Boat Commission**

Division of Environmental Services 450 Robinson Lane, Bellefonte, PA. 16823-7437 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 Fax: (717) 787-6957

# 7. PROJECT CONTACT INFORMATION

| Name: Jed Hill                                     |
|----------------------------------------------------|
| Company/Business Name: Letterly P Associates, Inc. |
| Address: 2022 Axemann Read, Suite 201              |
| City, State, Zip: Bc/4 fonte, Pa 16823             |
| Phone:(814) 355-2741 Fax:(814) 355-2410            |
| Email: Thill @lefterhossociates.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, Lagree to re-do the online environmental review.

|                                       | 3-19-15 |
|---------------------------------------|---------|
| applicant/project proponent signature | date    |