SCR Chamblissburg Supply PC# 2017-2298

SITE CHARACTERIZATION REPORT

Chamblissburg Supply
10625 Stewartsville Road
Vinton, Virginia 24179

PC# 2017-2298
Greene Project# CSVI1002

February 2, 2018

DEQ Case Manager:
Mr. Robert L. Howard

SITE CHARACTERIZATION REPORT

Chamblissburg Supply
10625 Stewartsville Road
Vinton, Virginia 24179
PC 2017-2298

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February 2, 2018
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EXECUTIVE SUMMARY

Site Characterization Report

Based on the findings of the release investigation report (RIR), the Virginia Department of Environmental Quality (VA DEQ) requested site characterization and reporting (SCR) activities be performed at the Chamblissburg Supply facility. As part of SCR activities 11 monitoring wells (MW01-MW11) were installed in effort to delineate subsurface petroleum contamination. In addition aquifer characterization, sampling activities, and geologic and geophysical analyses of the site were performed. Tank and line tightness testing performed during SCR activities yielded evidence of a leak in the premium gasoline product line proximal to the premium gasoline dispenser.

To date, vapor phase, residual phase, dissolved phase, and free phase petroleum contamination have been encountered in the subsurface at the Chamblissburg Supply facility. During this phase of investigation measurable free product was observed within only monitoring well MW04. However, dissolved phase petroleum concentrations were observed to be above the aqueous solubility for total petroleum hydrocarbons-gasoline range organics (TPH-GRO), which likely indicates the presence of further free phase petroleum or the potential for free phase petroleum formation. Further, soil samples collected during this phase of investigation yielded TPH-GRO and total petroleum hydrocarbons-diesel range organics (TPH-DRO) concentrations above the values recognized by the VA DEQ as indicating petroleum saturation.

Groundwater samples collected during this phase of investigation from the onsite monitoring wells (MW01-MW04 and MW09-MW11) confirmed the presence of dissolved phase petroleum contamination in the shallow groundwater aquifer. In addition, drinking water samples collected from supply wells DW01A, DW02A, DW03A, DW04A, DW05A, and DW07A continue to yield evidence of petroleum impact. Further, limited petroleum contamination was observed within an unnamed intermittent tributary to East Fork Beaverdam Creek. However, geologic and geophysical analyses activities did not yield evidence of any direct fracture pathways between the onsite dissolved phase petroleum contamination and the impacted supply wells.

Due to the presence of free phase petroleum, significant dissolved phase contamination onsite, and impact to onsite and offsite sensitive receptors, Greene recommends additional work be performed at the Chamblissburg Supply facility. Specifically, Greene recommends the installation of eight additional onsite soil borings/shallow groundwater monitoring wells to further delineate the observed shallow water petroleum contamination. In addition, Greene recommends installing deep water monitoring wells in

locations anticipated to be outside of the dissolved phase petroleum plume on properties P02, P04, and P20. The deep water monitoring wells will be installed to Virginia Department of Health specifications, which would allow for the conversion of the wells to drinking water supply wells at a later date.

Greene also recommends the performance of an aggressive fluid vapor recovery event (AFVR) utilizing a vacuum truck to determine the feasibility of vacuum enhanced corrective action at the Chamblissburg Supply facility. Results of the limited AFVR will then be utilized to perform a pilot study designed to aid in the selection and development of an appropriate long-term remedial technology to achieve corrective action endpoints. Finally, Greene recommends ongoing drinking water and surface water sampling be performed. Specifically, Greene recommends collecting water samples from offsite supply wells DW03B, DW04B, DW06B, DW06C, DW08A, DW08B, DW09A, DW09B, DW10A, DW11A, DW33A, DW33B, the unnamed tributary, and the unnamed pond.

This Executive Summary is an integral part of the Site Characterization Report. Greene recommends that the report be read in its entirety.

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SITE CHARACTERIZATION REPORT
for
Chamblissburg Supply
Vinton, VA

1.0 Introduction

On behalf of The Estate of Lacy Dudley, Greene Environmental Services, LLC (Greene) has prepared this Site Characterization Report (SCR) for the Chamblissburg Supply (dba Elei's) facility located at 10625 Stewartsville Road within Bedford County, Virginia. Subsequent to Greene's submittal of the Release Investigation Report (RIR), the Virginia Department of Environmental Quality (VA DEQ) requested the preparation and submittal of an SCR to further delineate the extent of petroleum contamination at the subject site in a letter dated September 6, 2017. This report documents the continued subsurface and release investigation performed at the Chamblissburg Supply facility. A comprehensive summary of Pollution Complaint (PC) #2017-2298 is provided in Section 3.0 of this report. A copy of the VA DEQ request letter dated September 6, 2017 is included in Appendix F of this report.

2.0 Site Assessment

2.1 Site Location and Description

The subject property is an approximately 3.5-acre parcel located at 10625 Stewartsville Road in a primarily residential area within the limits of Bedford County, Virginia. The subject site is improved with a single-story building that currently serves as the Chamblissburg Supply (dba Elei's). It is believed that the site has operated as a retail gasoline station and convenience store from approximately 1978 to present. The property currently maintains one 4,000-gallon gasoline underground storage tank (UST), two 5,000-gallon gasoline USTs, one 6,000-gallon gasoline UST, one 1,000-gallon diesel fuel UST, and one 1,000-gallon kerosene UST. In addition the site maintains three gasoline dispensers and associated canopy, one diesel fuel dispenser, and one kerosene dispenser.

The subject site is further improved with a single-story building currently serving as the Stewartsville – Chamblissburg Volunteer Fire Department Station 2, three storage buildings, and asphalt, concrete, and gravel access and parking areas. The subject site obtains potable water from a drilled supply well (DW01A) located approximately 135 feet east of the shared gasoline UST basin and approximately 70 feet east of the shared diesel fuel and kerosene UST basin. On July 5, 2017, the Bedford Regional Water Authority (BRWA) stated the nearest public water supply line is located approximately 4.5 miles west of the Chamblissburg Supply and there are currently no plans to extend municipal water to the subject property. The site is bordered by Stewartsville Road to the southwest, the Beaverdam Baptist Church

property to the northwest, an undeveloped wooded area to the northeast, and a residential parcel to the southeast. Table 1 - Summary of UST Information is included in Appendix A, Page 1. A Site Map documenting pertinent features of the site and surrounding area is included in Appendix B.

2.2 Topography

The subject site is located at 10625 Stewartsville Road within the limits of Bedford County, Virginia. According to the U.S. Geological Survey 7 ½ Minute Series Topographic Map of the Irving Quadrangle, Virginia, the site elevation is approximately 1,060 feet above mean sea level. At its closest point, the nearest identified surface water body is an unnamed intermittent tributary to East Fork Beaverdam Creek located approximately 700 feet to the northeast of the shared gasoline UST basin and approximately 620 feet northeast of the shared diesel fuel and kerosene UST basin. An aerial map and topographic map of the subject site are included in Appendix B.

2.3 Local Geology

Greene reviewed the Geologic Map of Virginia prepared by the Commonwealth of Virginia, Department of Mines, Minerals, and Energy. Published geologic information indicates that local geologic structures are primarily comprised of layered biotite granulite and gneiss. This rock formation is described in detail below:

> *Layered Biotite Granulite and Gneiss*: Leucocratic to mesocratic, segregation-layered quartzofeldspathic granulite and gneiss contain quartz, plagioclase (albite), microcline (includes assemblages with one alkali feldspar), biotite, ilmenite, and titanite; garnet and horn blende are commonly present. Accessory minerals include apatite and zircon. Epidote and white mica are ubiquitous secondary minerals. Relict pyroxene, largely replaced by actinolitic amphibole, occurs locally. Segregation layering is defined by alternating quartzofeldspathic and biotite-rich domains on the order of a few millimeters to centimeters thick. Quartz and feldspar are granoblastic; biotite defines a penetrative schistosity that crosscuts segregation layering. Migmatitic leucosomes composed of alkali feldspar and blue quartz cut segregation layering, and locally define attenuated isoclinal folds.

The above description was obtained from the Geologic Map of Virginia – Expanded Explanation (1993).

3.0 Comprehensive Summary of Pollution Complaint #2017-2298

3.1 Initial Release Reporting

On June 5, 2017, Ms. Debra Farkas contacted the VA DEQ and reported suspected petroleum in the drinking water well providing potable water to her property addressed as 10590 Stewartsville Road within Bedford County, Virginia. Based on the suspected impact by petroleum, a VA DEQ State Lead contractor collected a drinking water sample from the Farkas supply well (DW02A) on June 5, 2017. Laboratory analytical results yielded total petroleum hydrocarbons-gasoline range organics (TPH-GRO), benzene, and methyl-tert butyl ether (MTBE) concentrations of 994 micrograms per liter (µg/L), 2.91 µg/L, and 138 µg/L, respectively. Further, isopropyl ether (DIPE), 1,2-dichloroethane, and 1,2,4-trimethylbenzene concentrations of 8.55 µg/L, 23.1 µg/L, and 9.04 µg/L, respectively, were observed in the water sample collected on June 5, 2017.

Subsequent to receiving the results on June 8, 2017, the State Lead contractor reported the release to the BRRO of the VA DEQ on June 9, 2017. In a letter dated June 12, 2017, the BRRO of the VA DEQ issued the Chamblissburg Supply facility PC #2017-2298 and requested that Release Investigation and Reporting (RIR) be conducted at the site.

3.2 Release Investigation Activities

During the RIR phase of work, the current UST system components did not indicate any known compliance issues or an ongoing release at the facility. The cathodic protection system passed testing performed in October 2016. Further, tank release detection data yielded passing tests on all six tanks and tank tightness testing performed on June 28, 2017 was unable to identify leaks from the tanks. However, due to the suspected presence of check valves at the tanks, the product lines were unable to be tightness tested during RIR activities. Historical research performed during the Release Investigation phase of work indicated the VA DEQ noted multiple compliance issues at the site between 1978, the date of tank installation, and 2015. In addition, limited residual phase petroleum contamination was observed during a baseline environmental assessment performed in 2002. However, historical research indicated no prior Pollution Complaint cases were opened at the facility and the compliance issues appear to have been properly addressed. A copy of the Tank Tightness Report dated June 28, 2017 is included in Appendix F of this report.

On June 16, 2017, a ¼-mile radius receptor survey was performed to identify potential receptors to the confirmed petroleum contamination. During RIR activities, 36 drilled, bored, or hand dug supply wells and one pond were observed during the receptor survey. Groundwater samples collected from the onsite

supply well (DW01A) and offsite supply wells DW02A, DW03A, DW04A, DW05A, and DW07A yielded evidence of petroleum contamination and carbon filtration units were installed as part of the VA DEQ alternate water supply (AWS) program. However, at the property owner's request a carbon filtration system was not installed on DW07A. Table 8 - Summary of Supply Well Dissolved Phase Analytical Results is included in Appendix A, Page 15. Table 12 - Summary of the Receptor Survey Results is included in Appendix A, Page 25. The locations of the potential receptors are included on the Potential Receptors Location Map provided in Appendix B.

Further, during RIR activities, 15 soil borings were installed proximal to the current UST system(s) located at the Chamblissburg Supply facility. Soil samples collected from soil borings installed proximal to the gasoline UST system yielded TPH-GRO concentrations above the 8,300 milligrams per kilogram (mg/kg) value recognized by the VA DEQ as indicating gasoline saturation. The locations of soil borings installed during the Release Investigation phase of work are included on the soil boring location maps provided in Appendix B. Soil Boring Logs are provided as Appendix C. Table 3 - Summary of Soil Boring Residual Phase Analytical Results is included in Appendix A, Page 9. Subsequent to completion of the release investigation phase of work, a copy of the RIR dated August 3, 2017 was submitted to the VA DEQ.

4.0 Site Characterization Activities

As stated in Section 1.0 of this report, based on review of the RIR, the VA DEQ requested SCR activities be performed at the Chamblissburg Supply. A copy of the VA DEQ request letter dated September 6, 2017 is included in Appendix F of this report. This phase of work included tank/product line tightness testing, soil boring/groundwater monitoring well installation and sampling, drinking water sampling, geologic and geophysical analyses of the site and surrounding area, aquifer characterization, and limited fate and transport modeling. A summary of the activities performed at the Chamblissburg Supply during this phase of investigation is provided in the following sections. Due to the nature of this project, multiple activities were performed over a span of approximately four months. In order to clarify the order of events, a timeline outlining the activities has been provided below:

Timeline of SCR Events

September 6, 2017: • VA DEQ Site Characterization Report Request Letter

September 13, 2107: • Signed Site Access Agreement for Farkas Residence.

September 18, 2107:	• Signed Site Access Agreement for Houck Residence. • Collected surface water samples from the intermittent tributary and pond draining to East Fork Beaverdam Creek. • Collected groundwater sample from out of use bored supply well DW03B.
September 18, 2017-September 21, 2017:	• Greene contracted Davidson Drilling, Inc. to install eight (8) onsite and three (3) offsite soil borings/monitoring wells.
September 22, 2107-September 27, 2017:	• Greene contracted Environmental Solutions to perform tank/product line tightness testing; helium meter indicted a leak proximal to the premium gasoline dispenser and it was put out of use.
September 27, 2107:	• Performed monitoring well development and surveying activities.
October 2, 2017:	• Site meeting/VA DEQ inspection at the Chamblissburg Supply. • Reported suspected line leak to the VA DEQ. • The only compliance issues noted were missing/failed ATG records due to insufficient product levels; VA DEQ advised against filling premium UST due to suspected line leak. • Collected drinking water samples from in use supply wells DW10A and DW15A.
October 5, 2017	• Performed deed and health department research in an effort to obtain water well completion reports for impacted supply wells.
October 10, 2017-October 11, 2017:	• Performed groundwater sampling event (monitoring wells and supply wells). • Performed rising head tests at MW01 and MW11.
October 17, 2017:	• Environmental Options transported and disposed of 32 drums containing soil cuttings.
October 26, 2017:	• Greene & Draper Aden Associates onsite to perform fracture trace survey field work.
October 30, 2017:	• Pulled pump from supply well DW03A, brought casing above grade, and connected property P03 to supply well DW01A. • Pulled pump from supply well DW04B, brought casing above grade, and connected property P04 to supply well DW05A. • Pulled pump from supply well DW02A and connected P02 to supply well DW09A.
October 31, 2017:	• Greene contracted ARM Geophysics to perform geophysical logging of impacted supply wells. • Completed logging of DW02A, replaced pump, and disconnected piping from DW09A. • Began logging of DW03A.
November 1, 2017:	• Completed logging of DW03A, replaced pump, and connected piping from DW03A to property P01. • Began and completed logging of DW04B; replaced pump.

November 1, 2017 (Cont'd):
- Determined the supply well believed to be providing water to property P04 was actually out of use; this well was relabeled DW04B.
- Attempted to pull pump from DW01A. Determined pump was on threaded stick pipe and was unable to be pulled due to overhead power lines.
- Collected DW13A drinking water sample.
- Greene delivered two cases of drinking water to the Thomas Residence.

November 2, 2017:
- Disconnected piping from DW03A to property P01.
- Disconnected piping from DW05A to property P04.

November 10, 2017:
- Greene utilized line locator to identify the location of supply well DW04A.
- Site visit with AEP regarding the shielding of power lines.

November 27, 2017:
- Pulled pump from supply well DW04A, brought casing above grade, and connected property P04 to supply well DW05A.
- Pulled pump from supply well DW01A and connected property P01 to supply well DW03A.

November 28, 2017:
- Greene contracted ARM Geophysics to perform additional geophysical logging of impacted supply wells.
- Completed logging of DW04A, performed discrete sampling, replaced pump, and disconnected piping from DW05A.
- Began logging of DW01A.
- Collected DW04B and DW13B water samples.

November 29, 2017:
- Completed geophysical logging of DW01A and performed discrete sampling.

November 30, 2017:
- Replaced pump within DW01A and disconnected piping from DW03A.

December 5, 2017:
- Greene requested 30-day extension for submittal of SCR due to delay of geophysical logging as a result of the discovery of DW04A and the need for AEP to shield power lines above DW01A.

December 6, 2017:
- VA DEQ granted 30-day extension request.

January 6, 2018
- Ms. Franklin (property P06) contacted Greene and reported damaged piping due to freezing associated with the AWS treatment system.
- Greene delivered drinking water to Ms. Franklin.
- Greene bypassed the damaged piping/filter to provide the property running water.

January 8, 2017:
- Contacted VA DEQ AWS personnel regarding the damaged treatment system piping and bypassed sediment filter.

4.1 Tank & Line Tightness Testing

As previously mentioned, during the RIR phase of work Greene contracted Environmental Solutions (ES) of Cloverdale, Virginia to perform UST system tightness testing. Results of tank tightness testing performed on June 28, 2017 utilizing the Estabrook™ EZY 3 Locator Plus tank testing system yielded no

evidence of a leak from the six USTs located onsite. However, due to the presence of check valves as a result of the European style suction systems, the product lines were not tested during the previous phase of investigation.

As a result, Greene contracted ES to perform volumetric pressure testing of the six USTs and associated product lines utilizing helium during this phase of investigation. On September 22, 26, and 27, 2017 ES performed tightness testing utilized the Estabrook™ tank testing system and a MGD-2002™ helium detector. Prior to initiating tightness testing at each UST/product line, the union check valve located beneath the associated dispenser pump was removed and modified piping was installed to allow for the introduction of helium to the system. Helium was then installed though each respective product line and communication between the product line and tank was confirmed. Subsequent to confirming the line had been drained of product, helium continued to be introduced to the tank/line system until a pressure of approximately 2.0 psi was achieved. Upon obtaining approximately 2.0 psi each tank/line system was monitored for pressure loss and helium sampling was initiated. The MGD-2002™ helium detector was utilized to monitor/sample for helium from an array of monitoring points installed every two feet along the product piping runs and from an array of monitoring points installed in a grid pattern every 4-6 feet above the tank basin. It should be noted the check valve located on the plus gasoline product line is believed to be an inline check valve installed underground. As a result, the plus gasoline product line was unable to be tested during this phase of investigation. A petroleum contractor would need to excavate around the product line and remove the inline check valve to allow for tightness testing to be performed on the plus gasoline product line.

Results of the tightness testing performed during this phase of work indicate a leak in the premium (super) gasoline product line proximal to the premium gasoline dispenser. Subsequent to confirming the leak in the premium gasoline product line on September 22, 2017 this UST system was placed out of use and remains out of use as of the date of this report. A copy of the Tank Tightness Report dated October 17, 2017 is included in Appendix F of this report. A summary of the SCR tank/line tightness testing is provided below:

> Tightness testing performed on the premium (super) gasoline UST system yielded a steady loss in pressure and helium was detected above the product line piping proximal to the premium gasoline dispenser. The Estabrook™ tank testing system indicated the tank to be tight.
>
> Tightness testing performed on the regular gasoline UST systems (two tanks) yielded minimal pressure loss and trace amounts of helium along the product piping. However, the limited

pressure loss is likely the result of the larger ullage area due to the two regular tanks being manifolded together. Further, the limited helium observed along the product piping may be attributed to the confirmed leak observed in the premium gasoline product line as both (premium and regular) product lines are installed within the same trench and backfill material. The Estabrook™ tank testing system indicated the tanks to be tight.

Tightness testing performed on the plus gasoline UST yielded no loss of pressure and the Estabrook™ tank testing system indicated the tank to be tight. It should be noted the plus product line was not tested due to the check valve being buried below ground.

Tightness testing performed on the diesel fuel UST system yielded no loss of pressure and the Estabrook™ tank testing system indicated the tank to be tight.

Tightness testing performed on the kerosene UST system yielded no loss of pressure and the Estabrook™ tank testing system indicated the tank to be tight.

4.2 Soil Boring Installation

On September 18, 2017, an additional subsurface investigation was initiated at the Chamblissburg Supply facility. Davidson Drilling, Inc. (DDI) was contracted to install 11 soil borings from September 18 to September 21, 2017. Soil borings B16, B17, B18, B19, B23, B24, B25, and B26 were installed onsite, and soil borings B20, B21, and B22 were installed as sentinel monitoring points at the Houck Residence (P04), Farkas Residence (P02), and Dudley Property (P03), respectively. Prior to installing the offsite soil borings, Greene obtained Site Access Agreements from Ms. Tami Houck, owner of the Houck Residence and Ms. Debra Farkas, owner of the Farkas Residence. As The Estate of Lacy Dudley is the owner of the Dudley Property (P03) a site access agreement was not obtained. DDI utilized a track-mounted direct push drill rig to install the soil borings until rod refusal was observed. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger to complete each soil boring. The soil borings were installed in an effort to delineate the observed onsite and offsite petroleum contamination. A summary of the soil borings is provided below:

Soil boring B16 was installed proximal to the north side of the shared gasoline UST basin. This boring was installed in an area where residual phase petroleum was not observed during the previous RIR in an attempt to install a hydraulically upgradient monitoring point. DDI utilized a track-mounted direct push drill rig to install soil boring B16 until rod refusal was observed approximately 32 feet below ground surface (bgs). Subsequent to observing rod refusal, DDI

converted the direct push drill rig to hollow stem auger and over-bored B16 to approximately 55 feet bgs.

Soil boring B17 was installed proximal to the south side of the shared gasoline UST basin and west of the gasoline dispenser island. This boring was installed in an area where limited residual phase petroleum was observed during the previous RIR in an attempt to install a hydraulically upgradient monitoring point. DDI utilized a track-mounted direct push drill rig to install soil boring B17 until rod refusal was observed approximately 28 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B17 to approximately 55 feet bgs.

Soil boring B18 was installed proximal to the south side of the gasoline dispenser island. This boring was installed in an area where petroleum saturated soils were observed during the previous RIR in an attempt to install a gasoline source monitoring point. DDI utilized a track-mounted direct push drill rig to install soil boring B18 until rod refusal was observed approximately 32 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B18 to approximately 55 feet bgs.

Soil boring B19 was installed proximal to the south side of the shared UST basin and the north side of the gasoline dispenser island. This boring was installed in an area where petroleum saturated soils were observed during the previous RIR in an attempt to install a gasoline source monitoring point. DDI utilized a track-mounted direct push drill rig to install soil boring B19 until rod refusal was observed approximately 34 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B19 to approximately 55 feet bgs.

Soil boring B20 was installed as a sentinel monitoring point to the offsite sensitive receptors located at the Houck Residence (P04). This boring was installed approximately 20 feet northwest of out of use supply well DW04B (formerly suspected DW04A) and approximately 70 feet west of in use supply well DW04A. DDI utilized a track-mounted direct push drill rig to install soil boring B20 until rod refusal was observed approximately 28 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B20 to approximately 55 feet bgs.

Soil boring B21 was installed as a sentinel monitoring point to the offsite sensitive receptor located at the Farkas Residence (P02). This boring was installed approximately 15 feet north of in use supply well DW02A. DDI utilized a track-mounted direct push drill rig to install soil boring B21 until rod refusal was observed approximately 29 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B21 to approximately 55 feet bgs.

Soil boring B22 was installed as a sentinel monitoring point to the offsite sensitive receptor located at the Dudley Property (P03). This boring was installed approximately 20 feet south-southwest of in use supply well DW03A. DDI utilized a track-mounted direct push drill rig to install soil boring B22 until rod refusal was observed approximately 29 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B22 to approximately 55 feet bgs.

Soil boring B23 was installed as a sentinel monitoring point to the onsite sensitive receptor located at the Chamblissburg Supply (P01). This boring was installed approximately 10 feet west of in use supply well DW01A. DDI utilized a track-mounted direct push drill rig to install soil boring B23 until rod refusal was observed approximately 30 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B23 to approximately 55 feet bgs.

Soil boring B24 was installed proximal to the southeast side of the shared diesel fuel/kerosene UST basin and the south side of the diesel fuel/kerosene dispenser island. This boring was installed in an area where petroleum significant residual phase petroleum contamination was observed during the previous RIR in an attempt to install a diesel fuel/kerosene source monitoring point. DDI utilized a track-mounted direct push drill rig to install soil boring B24 until rod refusal was observed approximately 27 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B24 to approximately 55 feet bgs.

Soil boring B25 was installed approximately 45 feet southeast of the shared gasoline UST basin and approximately 50 feet southwest of the shared diesel fuel/kerosene UST basin. This boring was installed an attempt to obtain a hydraulically downgradient monitoring point. DDI utilized a track-mounted direct push drill rig to install soil boring B25 until rod refusal was observed approximately 27 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B25 to approximately 55 feet bgs.

Soil boring B26 was installed approximately 45 feet south-southeast of the shared gasoline UST basin and approximately 80 feet southwest of the shared diesel fuel/kerosene UST basin. This boring was installed an attempt to obtain a hydraulically downgradient monitoring point. DDI utilized a track-mounted direct push drill rig to install soil boring B26 until rod refusal was observed approximately 24.5 feet bgs. Subsequent to observing rod refusal, DDI converted the direct push drill rig to hollow stem auger and over-bored B26 to approximately 55 feet bgs.

The borings predominantly consisted of well graded, silty/sandy clay with weathered material primarily becoming evident approximately 25-30 feet bgs. Soil cuttings were drummed and stored onsite and offsite prior to disposal by Environmental Options, Inc. (EO) of Rocky Mount, VA on October 17, 2017. Copies of the Bills of Lading for the 32 drums from EO are included in Appendix F. Soil Boring Logs/Monitoring Well Construction Diagrams provided as Appendix C. The soil boring locations are included on the soil boring location maps provided in Appendix B. Copies of the signed Farkas Residence and Houck Residence Site Access Agreements are included in Appendix F.

4.3 Groundwater Monitoring Well Installation

Soil borings B16-B26 were completed as groundwater monitoring wells MW01-MW11, respectively. Groundwater monitoring wells were installed to collect groundwater samples and to monitor for the presence of free phase petroleum. Groundwater monitoring wells were constructed using two-inch inner diameter (I.D.) schedule 40 polyvinyl chloride (PVC) casing and 0.010-inch factory-slotted well screen. Each well is equipped with an expansion-type locking well cap. Well construction was completed subsequent to removal of the drill rods. The well annulus was filled with washed, #3 quartz filter sand to a minimum depth of approximately two feet above the top of the screened interval. A pelletized bentonite seal was placed above the sand filter pack. The remainder of the annulus was completed with neat portland grout. A flush-mount protective well cover was installed over each of the 11 monitoring wells. The monitoring well locations are included on the monitoring well location maps provided in Appendix B. Monitoring well construction diagrams are included on the Soil Boring Logs/Monitoring Well Construction Diagrams provided as Appendix C.

Greene returned to the site on September 27, 2017 to perform monitoring well development activities. Following the recording of the static water level, one-inch PVC piping and a surge block were utilized to develop each of the wells for approximately 10 minutes. Subsequent to completing surging activities, the wells were then purged until dry or a minimum of three well volumes were displaced. A summary of the well development gauging event is presented in Table 6 – Summary of Calculated Purge Volumes included in Appendix A, Page 13.

4.4 Hydrogeology

In accordance with VA DEQ directives, Greene completed 11 exploratory soil borings as groundwater monitoring wells (MW01-MW11) from September 18 to September 21, 2017. Groundwater monitoring wells were installed to monitor for the presence of free phase petroleum and to delineate the dissolved phase petroleum compounds identified onsite and offsite. A mark placed on the top of each well casing was used as a reference point for surveying and recording groundwater elevations. During this phase of investigation Greene used a Heron Instruments, Inc. or Solinst® electronic interface probe to measure the depth to groundwater in the onsite and offsite monitoring wells on September 27, 2017 and October 10, 2017. Table 4 - Summary of Groundwater Elevation Data is included in Appendix A, Page 12.

Surfer mapping software was employed to generate the potentiometric surface contour array over the base map created in DesignCAD for the October 10, 2017 gauging event. A minimum of pseudo data points were used and these were applied only when the kriging algorithm clearly interpolated the contour lines into certain regions where a paucity of data resulted in an unnatural contour distribution. When pseudo points were used, they were based on nearest neighbors. Suspected groundwater flow at the site was determined from the relative groundwater elevations within monitoring wells MW01-MW11. The potentiometric surface maps generated from the relative elevations of equilibrated groundwater as measured on October 10, 2017 are included in Appendix B. Relative groundwater elevations within the 11 monitoring wells as measured on October 10, 2017 depict a general hydraulic gradient to the east-southeast.

On October 10, 2017 pump-down rising head tests were performed in monitoring wells MW01 and MW11 to obtain data necessary for the calculation of aquifer characteristics including hydraulic conductivity, transmissivity, and flow velocity. Following the recording of the pre-test static water level, a submersible pump was utilized to slowly lower the water level within monitoring wells MW01 and MW11. Subsequent to purging, a Diver® or a Solinst® submersible data logger was utilized to record the water level at predetermined intervals until at a minimum of 95% recovery was obtained. The data logger measurements were then edited to depict an accurate representation of the rising head recovery. The pump-down test data was used to calculate hydraulic conductivity and transmissivity using Super Slug™ aquifer test software provided by Starpoint Software, Inc. Super Slug™ utilizes several methods for calculating hydraulic conductivity and transmissivity from pump-down test data. For this investigation, the Bouwer and Rice method with a gravel pack porosity correction was selected for determining hydraulic conductivity. The saturated thickness of the initial water bearing zone is presumed to be the static height of the water column in the monitoring wells. An effective porosity of 30% is assumed for pump-down rising head test calculations. Super Slug™ Test Data & Graphical Representations obtained during this phase of investigation are provided as Appendix E.

The pump-down rising head tests performed on monitoring wells MW01 and MW11 yielded calculated hydraulic conductivity values of 0.6893 feet per day (ft/day) and 0.9199 ft/day, respectively. The tests also yielded a calculated transmissivity value for MW01 of 46.00 gallons per day per foot (gal/day/ft) and 69.98 gal/day/ft for MW11. The flow velocity is determined from the hydraulic conductivity (K), the groundwater gradient (dh/dl), and the soil porosity (n) by the following equation:

$$V = \frac{K\,(dh/dl)}{N}$$

The average hydraulic conductivity for monitoring wells MW01 and MW11 is 0.8046 ft/day. The estimated hydraulic gradient across the site on October 10, 2017, was 0.0140 feet per foot (ft/ft), determined from the potentiometric maps included in Appendix B. The porosity or percentage of soil void volume to total volume for soils such as those observed at the site is estimated to be approximately 30%. Based on data obtained during the SCR phase of investigation the average shallow groundwater velocity at the site is calculated to be 0.0375 ft/day, or 13.69 feet per year (ft/yr).

4.5 Geologic & Geophysical Analysis

4.5.1 Fracture Trace Analysis

As requested, a fracture trace analysis of the Chamblissburg Supply site and surrounding area was performed as part of SCR activities. On October 12, 2017, Greene contracted Draper Aden Associates (DAA) of Blacksburg, VA to perform a fracture trace analysis in an attempt to identify subsurface characteristics that may be influencing the migration of dissolved phase petroleum contamination observed onsite to the onsite and offsite petroleum impacted drinking water wells. The study included a review of published geologic maps and literature, as well as the fracture trace analysis including site reconnaissance. On October, 26, 2017, Greene and DAA personnel performed a site visit in an attempt to visually identify any local geologic conditions. However, site reconnaissance did not yield evidence of visible rock outcroppings onsite or in the surrounding area. Review of the published geologic map of the site did not yield published strike and dip measurements for the site. However, orientation of the strikes and dips around the study area are primarily northeast-southwest with some striking to the northwest-southeast.

The fracture trace analysis was performed utilizing 2007 terrain models obtained from the Virginia Geographic Information Network. Results of the analysis yielded three primary sets of fracture trace orientations with the west-east and northeast-southwest sets being closest to the subject site. The

potentiometric surface maps generated during this phase of investigation did yield a general west-east shallow water hydraulic gradient, which may be influenced by the observed fracture traces. However, it is likely additional fracture zones exist onsite and in the surrounding area that are not expressed topographically. The study did not identify any direct fracture pathways between the onsite dissolved phase petroleum contamination and the impacted supply wells. As a result, the migration of petroleum contamination is likely a complex combination of fractures and hydraulic gradient. A copy of the fracture trace analysis prepared by ATS is provided in Appendix C.

4.5.2 Supply Well Historical Research & Geophysical Well Logging

4.5.2.1 Supply Well Historical Research

During this phase of investigation Greene attempted to collect supply well completion reports for the onsite supply well (DW01A) and the offsite impacted supply wells (DW02A, DW03A, DW04A, DW05A, and DW07A). Interviews with the current property owners provided a water well completion form only for in use supply well DW02A located at the Farkas Residence (P02). A deed review performed at the Bedford County Circuit Court Clerk's Office and a system record search performed by the Bedford County Health Department did not yield any additional well completion forms. However, the historical research did provide limited documentation of current and/or former supply well locations. A copy of the DW02A water well completion form is provided in Appendix C.

4.5.2.2 Geophysical Well Logging – Summary

As requested, geophysical well logging was performed during SCR activities in an attempt to identify supply well construction details, water-bearing zones, foliations, fractures, and additional subsurface characteristics, which may be influencing the migration of groundwater in the area. Results of the geophysical well logging will be utilized to further expand the conceptual site model, assist in dissolved phase plume migration estimates, and aid in the determination of locations and construction requirements for replacement supply wells.

On October 12, 2017, Greene contracted ARM Geophysics (ARM) of Hershey, PA to perform geophysical well logging of impacted supply wells DW01A, DW02A, DW03A, and DW04A. The geophysical well logging activities were initially performed from October 31, 2017 to November 1, 2017. During this time logging was performed and completed for supply wells DW02A and DW03A. In addition, well logging was performed and completed on the only known (at the time) supply well for the Houck Residence. However, it was determined the supply well believed to be providing water to the Houck Residence was actually out of use; this well was relabeled DW04B. The location of the in use

supply well (DW04A) was unable to be located at this time. Further, while attempting to pull the pump within DW01A it was determined the pump had been hung on stick piping and a boom truck would be required to pull the pump. However, due to the proximity of the power lines located above the supply well, a boom truck would be unable to safely access the work zone prior to the electrical lines being shielded by Appalachian Electric Power (AEP). Logging of DW04A and DW01A was postponed until these unforeseen issues could be addressed. ARM was scheduled for their next availability and during the interim DW04A was located and the AEP electrical lines were shielded. ARM returned to the site and completed DW01A and DW04A geophysical well logging activities from November 28, 2017 to November 29, 2017.

Prior to the performance of logging activities the well pump was removed a minimum of 12 hours in advance to allow access for logging equipment and tooling and for static conditions to be obtained. ARM then utilized a truck mounted logging system with multiple tooling instruments to perform: fluid temperature and conductivity, natural gamma ray, optical televiewer, acoustic televiewer, caliper probe, resistivity, and heat pulse flowmeter logging. A detailed summary of the logging methods utilized is provided in the logging report prepared by ARM and provided in Appendix C; however, a brief summary of the methods is provided below:

Fluid Temperature Logs: Document the change in fluid temperature as a function of depth in an effort to identify water-producing zones.

Fluid Conductivity (Spontaneous Potential): Document natural voltages within a borehole due to borehole fluids, formation fluids, and formation materials in an effort to identify permeable materials.

Caliper Logs: Document variations in borehole size as a function of depth in an effort to identify competent bedrock, fractures, and/or additional geologic units.

Gamma Ray Logs: Document naturally occurring radioactivity in an effort to identify the lithology of the borehole.

Normal Resistivity Logs: Document the resistivity (ease at which electric current passes through a material) of the formation units identified in the borehole in an effort to identify the lithology of the borehole.

Fluid Resistivity Logs: Document the resistivity (ease at which electric current passes through a material) of the borehole liquids in an effort to identify concentration of dissolved solids.

Single-Point Resistance Logs: Document voltage fluctuations throughout the borehole in an effort to identify fractures.

Heat Pulse Flowmeter Logs: Document vertical flow rates within a borehole in an effort to identify water-producing and water-receiving zones.

Optical Televiewer Logs: Provides a 360° digital image of the borehole and can provide orientation of identified geologic units (fractures, bedding planes, foliations, etc.).

Acoustic Televiewer Logs: Provides a 360° acoustic image of the borehole and can provide orientation of identified geologic units (fractures, bedding planes, foliations, etc.).

Subsequent to completion of DW01A, DW02A, DW03A, DW04A, and DW04B geophysical borehole logging, calculated statistical means for the dip and dip direction of all identified foliations and fracture planes were generated. It should be noted, dip direction is indicated by the compass azimuth and is measured from north (0°) clockwise. The degree of dip ranges between 0 and 90 and is a reflection of how “steep” an angle the dip maintains.

Results of the geophysical well logging study yielded statistical means for foliations and two sets/groups of fractures within each of the five wells, with exception to DW01A where only one set/group of fractures was observed. Very similar foliation orientations were observed between all five wells; dipping to the southeast between 36 and 49 degrees. In addition, fracture set #1 orientations are very similar between the five wells; dipping to the southeast between 39 and 52 degrees. It should be noted the mean dip of fracture set #1 at DW04B is significantly lower at 9 degrees. Fracture set #2 maintains a significantly different dip direction from fracture set #1 and also is slightly steeper in dip. Fracture set #2 also is similar between the four wells and is oriented south and dipping between 49 and 67 degrees. Based on the statistical means for the foliations and fracture set #1 the dissolved phase petroleum contamination plume would be influenced to the southeast, which is consistent with the shallow water gradient. Based on the statistical means for fracture set #2 the dissolved phase plume would be influenced to the south. However, this assessment is based on calculated statistical means and does not express the substantial diversity of the individual foliations/fractures observed within each well, which are significantly different than the statistical means. It is likely that the wide range in orientation of the identified features within each well

will have some influence on the migration of groundwater and the dissolved phase plume. The geophysical logging study further indicates that the structural geology of the site is very complex and it appears predicting how the interaction of these structures will influence the migration of dissolved phase contaminants is not possible at this time. A copy of the geophysical borehole logging report prepared by ARM is provided in Appendix C. A Geophysical Borehole Logging Summary Map documenting the dip direction and dip of features identified is provided in Appendix B.

4.5.2.2.1 Geophysical Well Logging – DW02A

On October 30, 2017, Greene contracted County Well Service (CWS) of Rocky Mount, VA to remove the pump from the Farkas Residence supply well (DW02A), which had been hung on HDPE piping approximately 205 feet bgs. Subsequent to pulling the well pump a garden hose was connected to an outside hydrant located at the Brillhart Property (P09) to provide water to the Farkas Residence property (P02). At the owner's request, the offsite water supply was not connected to the P02 residential plumbing.

On October 31, 2017 ARM initiated and completed borehole logging of DW02A. Borehole logging indicates DW02A was completed 261.46 feet bgs and is constructed of 6-inch casing installed to 88.46 feet bgs. Further, the measured depth to water in DW02A on October 31, 2017 was 69.86 feet bgs. Geophysical borehole logging of DW02A identified a statistical mean foliation plane dip direction of 128 degrees and a dip of 41 degrees. In addition, DW02A logging identified two predominant groups/sets of fracture planes within this borehole. The DW02A fracture set #1 maintains a mean dip direction of 108 degrees and a dip of 57 degrees, and the DW02A fracture set #2 maintains a mean dip direction of 186 and a dip of 61 degrees.

Further, geophysical borehole logging of DW02A resulted in the identification of a groundwater producing zone from 245 to 246 feet bgs and a groundwater receiving zone from 255 to 256 feet bgs. The open fracture identified as the water producing zone maintains a dip direction of 295 degrees and a dip of 55 degrees, and the open fracture identified as the water receiving zone maintains a dip direction of 111 degrees and a dip of 44 degrees. In addition, open fractures were observed approximately 237 and 250 feet bgs; however, no flow was observed at these locations under ambient conditions. The open fracture approximately 237 feet bgs maintains a dip direction of 69 degrees and a dip of 47 degrees, and the open fracture approximately 250 feet bgs maintains a dip direction of 223 degrees and a dip of 64 degrees. A copy of the geophysical borehole logging report prepared by ARM is provided in Appendix C.

Subsequent to completing geophysical well logging activities CWS replaced the pump and chlorinated supply well DW02A on October 31, 2017. The breaker for the pump was then turned on and correct

operation was confirmed. In addition, the garden hose was disconnected from the outside hydrant located at the Brillhart Property (P09).

4.5.2.2.2 Geophysical Well Logging – DW03A

On October 30, 2017, Greene contracted CWS to remove the pump from the Dudley Property supply well (DW03A). However, the top of the well/well casing was buried and the exact location of supply well DW03A was unknown. As a result a line locator and hand tools were utilized to identify and uncover the supply well. Subsequent to exposing the top of casing the well seal and pump, which had been hung on HDPE piping approximately 165 feet bgs, were removed. In order to allow sanitary access to the supply well for logging activities the well casing was extended above grade approximately one foot and a pitless adapter and a new well cap were installed. Subsequent to pulling the well pump 1-inch HPDE piping was installed from a spigot located in the AWS treatment shed on the Chamblissburg Supply property to a spigot located in the AWS treatment shed at the Dudley Property. Based on the location of the spigots in the AWS treatment sheds the water being provided to the Dudley Property continued to pass through the entire treatment train to eliminate the potential for ingestion of petroleum impacted groundwater.

ARM performed geophysical borehole logging of DW03A on October 31, 2017 and November 1, 2017. Borehole logging indicates DW03A was completed 197.5 feet bgs and is constructed of 6-inch casing installed to 99.36 feet bgs. Further, the measured depth to water in DW03A on October 31, 2017 was 49.72 feet bgs. Geophysical borehole logging of DW03A identified a statistical mean foliation plane dip direction of 146 degrees and a dip of 36 degrees. In addition, DW03A logging identified two predominant groups/sets of fracture planes within this borehole. The DW03A fracture set #1 maintains a mean dip direction of 119 degrees and a dip of 39 degrees, and the DW03A fracture set #2 maintains a mean dip direction of 168 degrees and a dip of 49 degrees.

Further geophysical borehole logging of DW03A resulted in the identification of open fractures located approximately 108 and 138 feet bgs; however, no flow was observed within the well under ambient conditions. The open fracture approximately 108 feet bgs maintains a dip direction of 173 degrees and a dip of 48 degrees. The open fracture approximately 138 feet bgs maintains a dip direction of 333 degrees and a dip of 48 degrees. A copy of the geophysical borehole logging report prepared by ARM is provided in Appendix C.

Subsequent to completing geophysical well logging activities CWS replaced the pump and chlorinated supply well DW03A on November 1, 2017. The breaker for the pump was then turned on and correct

operation was confirmed. On November 2, 2017, the previously installed 1-inch HPDE piping between the Dudley Property and the Chamblissburg Supply was removed.

4.5.2.2.3 Geophysical Well Logging – DW04B

On October 30, 2017, Greene contracted CWS to remove the pump from the Houck Residence supply well (DW04B). It should be noted, supply well DW04B is an out of use well. However, at the time well logging activities were performed supply well DW04B was believed to be the Houck Residence in use supply well (DW04A). The top of the well/well casing was buried and hand tools were utilized to uncover the supply well. Subsequent to exposing the top of casing the well seal and pump, which had been hung on HDPE piping approximately 75 feet bgs, were removed. In order to allow sanitary access to the supply well for logging activities the well casing was extended above grade approximately one foot and a pitless adapter and a new well cap were installed. Subsequent to pulling the well pump 1-inch HPDE piping was installed from a spigot located in the AWS treatment shed at the Thomas Residence property to an outside hydrant located at the Houck Residence. Based on the locations of the spigot and hydrant the water being provided to the Houck Residence continued to pass through the entire AWS treatment train to eliminate the potential for ingestion of petroleum impacted groundwater.

On November 1, 2017 ARM initiated and completed borehole logging of DW04B. Borehole logging indicates DW04B was completed 82 feet bgs and is constructed of 5-inch casing installed to 68.73 feet bgs. Further, the measured depth to water in DW04B on November 1, 2017 was 30.72 feet bgs; however, upon removal of the pitless adapter water entered the well and the depth to water increased throughout logging activities. Geophysical borehole logging of DW04B was unable to identify any discernable foliation planes due to the highly turbid conditions observed within the well. However, DW04B logging did identify two predominant groups/sets of fracture planes within this borehole. The DW04B fracture set #1 maintains a mean dip direction of 126 degrees and a dip of 9 degrees, and the DW04B fracture set #2 maintains a mean dip direction of 172 degrees and a dip of 67 degrees.

Further, geophysical borehole logging of DW04B resulted in the identification of a groundwater producing zone from 75 to 80 feet bgs. The water producing zone consists of multiple voids and soft areas with the largest open zone at 76.65 feet bgs maintaining a dip direction of 127 degrees and a dip of 23 degrees. Two additional voids/soft areas were observed approximately 76.2 and 78.57 feet bgs. The open zone approximately 76.2 feet bgs maintains a dip direction of 94 degrees and a dip of 72 degrees. The open zone approximately 78.57 feet bgs maintains a dip direction of 121 degrees and a dip of 19 degrees. A copy of the geophysical borehole logging report prepared by ARM is provided in Appendix C.

Subsequent to completing geophysical well logging activities CWS replaced the pump and chlorinated supply well DW04B on November 1, 2017. The breaker for the pump was then turned on and DW04B was determined to be out of use. Greene and CWS attempted to locate DW04A on November 1, 2017; however, the top of casing was buried and the location was unable to be identified at this time. On November 2, 2017, the previously installed 1-inch HPDE piping between the Houck Residence and Thomas Residence was removed.

4.5.2.2.4 Geophysical Well Logging – DW04A

On November 10, 2017, Greene utilized a line locator and hand tools to identify and uncover the Houck in use supply well (DW04A). The location of DW04A was marked with flags and the top of casing was covered pending rescheduling of the geophysical borehole logging. On November 27, 2017, the top of casing was exposed and the well seal and pump, which had been hung on HDPE piping approximately 150 feet bgs, were removed. In order to allow sanitary access to the supply well for logging activities the well casing was extended above grade approximately one foot and a pitless adapter and a new well cap were installed. Subsequent to pulling the well pump 1-inch HPDE piping was installed from a spigot located in the AWS treatment shed at the Thomas Residence to an outside spigot located at the Houck Residence. Based on the locations of the spigots the water being provided to the Houck Residence continued to pass through the entire AWS treatment train to eliminate the potential for ingestion of petroleum impacted groundwater.

On November 28, 2017 ARM initiated and completed borehole logging of DW04A. Borehole logging indicates DW04A was completed 165 feet bgs and is constructed of 6-inch casing installed to 87 feet bgs. Further, the measured depth to water in DW04A on November 28, 2017 was 61.7 feet bgs. Geophysical borehole logging of DW04A identified a statistical mean foliation plane dip direction of 148 degrees and a dip of 39 degrees. In addition, DW04A logging identified two predominant groups/sets of fracture planes within this borehole. The DW04A fracture set #1 maintains a mean dip direction of 104 degrees and a dip of 52 degrees, and the DW04A fracture set #2 maintains a mean dip direction of 161 degrees and a dip of 65 degrees.

Further, geophysical borehole logging of DW04A did not identify any fully open fractures and no flow was observed within the well under ambient conditions. However, multiple partially open fractures were observed, with the more visually obvious zones maintaining primarily southeast orientations. A copy of the geophysical borehole logging report prepared by ARM is provided in Appendix C.

Subsequent to completing geophysical well logging activities and discrete water sampling (discussed in Section 4.6.3.2.3 of this report) Greene replaced the pump and chlorinated supply well DW04A on November 28, 2017. The breaker for the pump was then turned on and correct operation was confirmed. The previously installed 1-inch HPDE piping between the Houck Residence and Thomas Residence was then removed.

4.5.2.2.5 Geophysical Well Logging – DW01A

On November 1, 2017, Greene contracted CWS to remove the pump from the Chamblissburg Supply supply well (DW01A). However, while attempting to remove the pump it was determined threaded stick piping was utilized to hang the pump, and as a result a boom truck would be required to pull the well pump. Prior to utilizing the boom truck, AEP was contacted and scheduled to shield the three power lines located above in use supply well DW01A to allow for safe removal of the pump. Subsequent to shielding the power lines, CWS returned to the site on November 27, 2017 with a boom truck to remove the DW01A pump, which had been hung on the 1.25-inch PVC threaded stick piping approximately 260 feet bgs. Subsequent to pulling the well pump 1-inch HPDE piping was installed from a spigot located in the AWS treatment shed on the Chamblissburg Supply property to a spigot located in the AWS treatment shed at Dudley Property. Based on the location of the spigots in the AWS treatment sheds the water being provided to the Chamblissburg Supply continued to pass through the entire treatment train to eliminate the potential for ingestion of petroleum impacted groundwater.

ARM performed geophysical borehole logging of DW01A on November 28, 2017 and November 29, 2017. Borehole logging indicates DW01A was completed 292 feet bgs and is constructed of 6-inch casing installed to 87.75 feet bgs. Further, the measured depth to water in DW01A on November 28, 2017 was 51.51 feet bgs. Geophysical borehole logging of DW01A identified a statistical mean foliation plane dip direction of 141 degrees and a dip of 39 degrees and a mean fracture plane dip direction of 143 degrees and a dip of 49 degrees.

Geophysical borehole logging of DW01A resulted in the identification of an open fracture located approximately 143 feet bgs; however, no flow was observed within the well under ambient conditions. The open fracture approximately 143 feet bgs maintains a dip direction of 2 degrees and a dip of 66 degrees. A copy of the geophysical borehole logging report prepared by ARM is provided in Appendix C.

Subsequent to completing geophysical well logging activities and discrete water sampling (discussed in Section 4.6.3.2.3 of this report) CWS replaced the pump and chlorinated supply well DW01A on November 30, 2017. The breaker for the pump was then turned on and correct operation was confirmed.

The previously installed 1-inch HPDE piping between the Chamblissburg Supply and Dudley Property was then removed.

4.6 Contamination Characterization

The following sections describe Greene's delineation of subsurface petroleum constituents detected during this investigation.

4.6.1 Vapor Phase

It should be noted that a true soil gas survey has not been conducted at this site. Any discussion of soil vapors pertains to photoionization detector (PID) readings observed during the screening of soil samples collected during borehole logging. As such, any readings are indicative of a mixture of soil gases and the newly volatized petroleum vapors resulting from the disturbance of residual phase contamination.

Nevertheless, vapor phase contamination is expected to exist beneath the site. During installation of soil borings B16-B26, Greene collected soil samples at approximately five foot intervals. The soil samples collected during boring activities were collected for visual inspection, lithologic characterization, and headspace screening for the presence of volatile organic compound (VOC) vapors typically associated with petroleum fuels. Portions of each recovered soil sample were retained in plastic Zip-Loc™ bags for headspace analysis. Sample temperature was allowed to equilibrate for approximately fifteen minutes at a minimum temperature of 68 ^{o}F prior to screening. Headspace screening was performed using a Mini-RAE 3000 PID calibrated to a 100 parts per million (ppm) isobutylene standard. This instrument detects VOC vapors within a range of 0.1 ppm to 15,000 ppm. Headspace analysis involved the insertion of the sample probe portion of the PID into the equilibrated sample bag. The maximum reading obtained upon insertion of the probe was recorded for each sample. Headspace analyses revealed elevated (>50.0 ppm) VOC vapor concentrations at soil borings B18, B19, B24, B25, and B26. Headspace readings are included on the Soil Boring Logs/Monitoring Well Construction Diagrams provided as Appendix C. Table 2 – Summary of Field Screening Results is included in Appendix A, Page 2.

4.6.2 Residual Phase

During drilling activities, soil samples were collected using clean, disposable, nitrile gloves, stored on ice, and those selected for analysis were entered onto a chain of custody document and transported via courier to the REI Consultants, Inc. (REIC) laboratory in Beaver, WV. The submitted soil samples were analyzed for TPH-GRO via EPA method 8015, and benzene, toluene, ethylbenzene, xylenes (BTEX), MTBE, and naphthalene via EPA method 8260. In addition selected samples were analyzed for VOCs via EPA method 8260 and samples collected proximal to the diesel fuel/kerosene UST system were also analyzed

for total petroleum hydrocarbons-diesel range organics (TPH-DRO) via EPA method 8015. Analytical results of the soil samples submitted from soil borings B17 and B22 yielded Non Detected at laboratory method detection limits (MDLs), while analytical results of soil samples from borings B16, B20, B21, B23, and B26 yielded evidence of limited residual phase petroleum contamination. However, analytical results of soil samples collected from B18, B19, B24, and B25 yielded evidence of significant petroleum contamination. In fact, analytical results of soil samples collected from soil borings B18 and B19 yielded maximum TPH-GRO concentrations of 15,700 milligrams per kilogram (mg/kg) and 12,600 mg/kg, respectively, which are above the 8,300 mg/kg value recognized by the VA DEQ as indicating gasoline saturation. Further, analytical results of soil samples collected from soil boring B24 yielded a maximum TPH-DRO concentration of 18,900 mg/kg, which is above the 11,000 mg/kg and 11,200 mg/kg values recognized by the VA DEQ as indicating diesel fuel and kerosene saturation, respectively.

Based on the residual phase analytical results obtained during this phase of investigation it appears there have been releases of petroleum from both the gasoline UST system and the diesel fuel/kerosene UST system. Table 3 - Summary of Soil Boring Residual Phase Analytical Results is included in Appendix A, Page 9. Copies of the laboratory results and chain of custody documentation are included in Appendix D.

4.6.3 Dissolved Phase

4.6.3.1 Groundwater Monitoring Wells

As discussed in Section 4.4 monitoring wells MW01-MW11 were developed on September 27, 2017. Prior to developing the wells, the static water level was recorded and the presence of free phase petroleum was investigated using a Heron Instruments, Inc. or Solinst® electronic interface probe. The depth to product/groundwater measurement was recorded from a reference mark placed on the top of each well casing. A summary of the well development gauging event is presented in Table 6 – Summary of Calculated Purge Volumes included in Appendix A, Page 13. Greene returned to the subject site on October 10 and October 11, 2017 to collect groundwater samples from the onsite and offsite groundwater monitoring wells. Prior to purging and sampling, the static water level was recorded and the presence of free phase petroleum was investigated using a Heron Instruments, Inc. or Solinst® electronic interface probe. The depth to product/groundwater measurements were recorded from a reference mark placed on the top of each well casing. A measurable free product sheen (~0.01 feet) was observed within monitoring well MW04 during this phase of investigation. A summary of the sampling gauging event also is presented in Table 6 – Summary of Calculated Purge Volumes included in Appendix A, Page 13.

Subsequent to gauging, the 11 groundwater monitoring wells were sampled to obtain dissolved phase analytical data to be utilized to generate Isoconcentration maps and perform limited fate and transport

modeling. The groundwater samples collected from monitoring wells MW01-MW11 were collected using a 12-volt S.S. Monsoon Proactive Environmental Products submersible pump with a low-flow controller. Dedicated, disposable, LDPE tubing was used to purge the wells and transfer the groundwater samples directly into the appropriate sample containers. The wells were purged until dry or a minimum of three well volumes had been displaced. Water samples were collected in the appropriate samples containers, stored on ice, and transported via courier to the REIC laboratory in Beaver, WV. The groundwater samples collected from monitoring wells MW01-MW11 were submitted for TPH-GRO analysis via EPA method 8015, VOCs analysis via EPA method 8260, semi-volatile organic compounds (SVOCs) analysis via EPA method 8270, ethylene dibromide (EDB) and dibromochloropropane (DBCP) analysis via EPA method 8011, and total and dissolved lead analysis via EPA method 200.8. Copies of the SCR Isoconcentration maps are provided in Appendix B. Copies of the laboratory results and chain of custody documentation are included in Appendix D.

The water samples collected from monitoring wells MW05-MW08 yielded Non Detected for petroleum contamination at laboratory MDLs; however, water samples collected from monitoring wells MW01-MW04 and MW09-MW11 yielded measurable levels of petroleum contamination. Selected results were flagged with J qualifiers and the concentrations are considered estimates due to the reported results being below the practical quantitation limits (PQLs) and equal to or above the laboratory MDLs. As a result, it is likely the analytes are present in the samples, but the results should be viewed only as qualitative and not quantitative. The groundwater samples collected from monitoring wells MW01 and MW02 yielded limited dissolved phase petroleum contamination; however, the water samples collected from monitoring wells MW03, MW04, MW09, MW10, and MW11 yielded significant dissolved phase petroleum contamination. Table 7 - Summary of Monitoring Well Dissolved Phase Analytical Results is included in Appendix A, Page 14. A summary of the monitoring well dissolved phase analytical results is provided below:

> The groundwater sample collected from monitoring well MW01 during SCR activities yielded measurable TPH-GRO, toluene, ethylbenzene, xylenes, MTBE, EDB, tert-Butyl alcohol (TBA), and DIPE contamination. However, the reported toluene, ethylbenzene, and DIPE concentrations were flagged with J qualifiers. This sample also yielded measurable total lead and additional VOC concentrations.
>
> The groundwater sample collected from monitoring well MW02 during SCR activities yielded measurable TPH-GRO, BTEX, MTBE, naphthalene, EDB, and TBA contamination. This sample also yielded measurable total lead, additional VOC, and additional SVOC concentrations.

The groundwater sample collected from monitoring well MW03 during SCR activities yielded measurable TPH-GRO, BTEX, MTBE, naphthalene, EDB, TBA, and DIPE contamination. However, the reported toluene concentration was flagged with an E qualifier and the result is considered and estimate as the reported concentration exceeds the upper calibration standard. This sample also yielded measurable total lead, dissolved lead, and additional VOC concentrations.

The groundwater sample collected from monitoring well MW04 during SCR activities yielded measurable TPH-GRO, BTEX, MTBE, naphthalene, EDB, TBA, and DIPE contamination. However, the reported toluene concentration was flagged with an E qualifier and the result is considered and estimate as the reported concentration exceeds the upper calibration standard. This sample also yielded measurable total lead, dissolved lead, additional VOC, and additional SVOC concentrations.

The groundwater sample collected from monitoring well MW05 during SCR activities yielded Non Detected for petroleum contamination at laboratory MDLs. This sample yielded only a measurable total lead concentration.

The groundwater sample collected from monitoring well MW06 during SCR activities yielded Non Detected for petroleum contamination at laboratory MDLs. This sample yielded only measurable total lead and dissolved lead concentrations. Further, the dissolved lead concentration was flagged with a J qualifier.

The groundwater sample collected from monitoring well MW07 during SCR activities yielded Non Detected for petroleum contamination at laboratory MDLs. This sample yielded only measurable phenol, total lead, and dissolved lead concentrations. Further, the phenol and dissolved lead concentrations were flagged with J qualifiers.

The groundwater sample collected from monitoring well MW08 during SCR activities yielded Non Detected for petroleum contamination at laboratory MDLs. This sample yielded only a measurable total lead concentration.

The groundwater sample collected from monitoring well MW09 during SCR activities yielded measurable TPH-GRO, BTEX, MTBE, naphthalene, TBA, and DIPE contamination. This sample also yielded measurable total lead, dissolved lead, additional VOC, and additional SVOC concentrations.

The groundwater sample collected from monitoring well MW10 during SCR activities yielded measurable TPH-GRO, BTEX, MTBE, naphthalene, EDB, TBA, tert-Amyl Methyl Ether (TAME), and DIPE contamination. However, the reported benzene, MTBE, and TAME concentrations were flagged with E qualifier and the result is considered and estimate as the reported concentration exceeds the upper calibration standard. This sample also yielded measurable total lead, additional VOC, and additional SVOC concentrations.

The groundwater sample collected from monitoring well MW11 during SCR activities yielded measurable TPH-GRO, BTEX, MTBE, naphthalene, TBA, TAME, and DIPE contamination. However, the reported MTBE concentration was flagged with an E qualifier and the result is considered and estimate as the reported concentration exceeds the upper calibration standard. This sample also yielded measurable total lead, additional VOC, and additional SVOC concentrations.

4.6.3.2 Supply Wells

4.6.3.2.1 In Use Supply Wells – Non Petroleum Impacted

As part of SCR activities, Greene collected groundwater samples from offsite in use supply wells DW06B, DW08A, DW08B, DW09A, DW10A, DW11A, DW12A, DW13A, DW14A, DW15A, DW16A, DW17A, DW18A, DW33A, DW40A, and DW41A. The drinking water samples were collected from inside faucets, inside spigots, or outside spigots/hydrants subsequent to allowing the water to flow for approximately 10 minutes. Clean disposable nitrile gloves were used during all phases of sample collection. The supply well water samples were collected in the appropriate samples containers, stored on ice, and transported via courier to the REIC laboratory in Beaver, WV. The groundwater samples collected from the in use supply wells were submitted for TPH-GRO analysis via EPA method 8015, VOCs analysis via EPA method 8260, SVOCs analysis via EPA method 8270, EDB and DBCP analysis via EPA method 8011, and total and dissolved lead analysis via EPA method 200.8. Copies of the laboratory results and chain of custody documentation are included in Appendix D.

The water samples collected from offsite in use supply wells DW06B, DW08A, DW08B, DW09A, DW10A, DW11A, DW12A, DW13A, DW14A, DW15A, DW16A, DW17A, DW18A, DW33A, DW40A, and DW41A yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, phenol, tetrachloroethene, total lead, and dissolved lead concentrations were observed during in use supply well sampling activities. Selected results were flagged with J qualifiers and the concentrations are considered estimates due to the reported results being below the PQLs and equal to or above the laboratory MDLs. As a result, it is likely the analytes are present in the samples, but the

results should be viewed only as qualitative and not quantitative. Phenol is primarily utilized in the production of plastics, insect repellants, and pesticides and is generally not associated with petroleum releases. Tetrachloroethene (also known as tetrachloroethylene or perchloroethylene) is primarily utilized as a solvent for dry cleaning, metal degreasing, and textile processing and is generally not associated with petroleum releases. The EPA maximum contaminant level (MCL) for tetrachloroethene in drinking water is 5.0 micrograms per liter (μg/L). Lead is a naturally occurring element formerly and/or currently utilized in leaded gasoline, paint, ceramics, pipes, fixtures, solder, etc. Lead is generally observed in tap water due to the corrosion of plumbing fixtures, piping, and/or solder. According to the EPA, the action level for lead in public drinking water systems is 15 μg/L. Upon receipt of the laboratory analytical results, Greene submitted drinking water results letters to each of the property owners. Additional information regarding the offsite receptors is provided in Section 4.8.1 and 4.8.2.2 of this report. Table 8 - Summary of Supply Well Dissolved Phase Analytical Results is included in Appendix A, Page 15. Table 11 – Description of Observed Supply Well Analytes is included in Appendix A, Page 22. A summary of the in use drinking water well dissolved phase analytical results is provided below:

The groundwater sample collected from offsite in use supply well DW06B during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW06B water sample did yield total and dissolved lead concentrations of 3.72 μg/L and 3.69 μg/L, respectively.

The groundwater sample collected from offsite in use supply well DW08A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW08A water sample did yield total and dissolved lead concentrations of 77.8 μg/L and 4.03 μg/L, respectively.

The groundwater sample collected from offsite in use supply well DW08B during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW08B water sample did yield total and dissolved lead concentrations of 66.6 μg/L and 10.6 μg/L, respectively. In addition, this water sample yielded a tetrachloroethene concentration of 1.32 μg/L.

The groundwater sample collected from offsite in use supply well DW09A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW09A water sample did yield a total lead concentration of 0.407 μg/L. The reported total lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW10A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW10A water sample did yield a total lead concentration of 3.40 μg/L.

The groundwater sample collected from offsite in use supply well DW11A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW11A water sample did yield total and dissolved lead concentrations of 1.30 μg/L and 0.471 μg/L, respectively. The reported dissolved lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW12A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW12A water sample did yield total and dissolved lead concentrations of 3.29 μg/L and 0.703 μg/L, respectively. The reported dissolved lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW13A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW13A water sample did yield a total lead concentrations of 13.9 μg/L.

The groundwater sample collected from offsite in use supply well DW14A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW14A water sample did yield total and dissolved lead concentrations of 113 μg/L and 14.8 μg/L, respectively.

The groundwater sample collected from offsite in use supply well DW15A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW15A water sample did yield total and dissolved lead concentrations of 5.18 μg/L and 1.62 μg/L, respectively. In addition, this water sample yielded a phenol concentration of 2.30 μg/L. The reported phenol concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW16A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW16A water sample did yield a total lead concentration of 0.638 μg/L. The reported total lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW17A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW17A water sample did yield total and dissolved lead concentrations of 46.3 μg/L and 0.529 μg/L, respectively. The reported dissolved lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW18A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW18A water sample did yield a total lead concentration of 0.753 μg/L. The reported total lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW33A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW33A water sample did yield total and dissolved lead concentrations of 2.78 μg/L and 0.345 μg/L, respectively. The reported dissolved lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW40A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW40A water sample did yield a total lead concentration of 0.758 μg/L. The reported total lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite in use supply well DW41A during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the DW41A water sample did yield total and dissolved lead concentrations of 2.00 μg/L and 0.628 μg/L, respectively. The reported dissolved lead concentration was flagged with a J qualifier.

4.6.3.2.2 In Use Supply Wells – Petroleum Impacted

As documented in the previously submitted release investigation report, onsite in use receptor DW01A and offsite in use receptors DW02A, DW03A, DW04A, DW05A, and DW07A have been impacted with petroleum. In an effort to mitigate concern associated with ingestion of petroleum impacted drinking water, carbon filtration unit (CFU) systems have been installed as part of the VA DEQ AWS program. As part of CFU system installation and maintenance activities pre-treatment and post-treatment drinking water samples are routinely collected. VA DEQ AWS laboratory analytical results provided to Greene during this phase of investigation yielded the continued presence of petroleum contamination in the pre-treatment water samples. However, the post-treatment water samples did not yield evidence of measurable petroleum contamination. Table 8 - Summary of Supply Well Dissolved Phase Analytical Results is included in Appendix A, Page 15. Copies of the laboratory results and chain of custody documentation for the samples collected on behalf of the VA DEQ AWS program are not included in this report and any request for this documentation should be made to Greene or the VA DEQ AWS program.

Despite the in use petroleum impacted supply wells being sampled as part of the AWS program, Greene also collected groundwater samples from DW01A, DW02A, DW03A, DW04A, DW05A, and DW07A as part of the requested SCR activities. The drinking water samples were collected from sample ports/spigots located prior to the CFU treatment systems subsequent to allowing the water to flow for approximately 10 minutes. Clean disposable nitrile gloves were used during all phases of sample collection. The supply well water samples were collected in the appropriate samples containers, stored on ice, and transported via courier to the REIC laboratory in Beaver, WV. The groundwater samples collected from the in use supply wells were submitted for TPH-GRO analysis via EPA method 8015, VOCs analysis via EPA method 8260, SVOCs analysis via EPA method 8270, EDB and DBCP analysis via EPA method 8011, and total and dissolved lead analysis via EPA method 200.8. Copies of the laboratory results and chain of custody documentation are included in Appendix D.

The pre-treatment water samples collected by Greene from in use supply wells DW01A, DW02A, DW03A, DW04A, DW05A, and DW07A continue to yielded evidence of petroleum contamination. Selected results were flagged with J qualifiers and the concentrations are considered estimates due to the reported results being below the PQLs and equal to or above the laboratory MDLs. As a result, it is likely the analytes are present in the samples, but the results should be viewed only as qualitative and not quantitative. Upon receipt of the laboratory analytical results, Greene submitted drinking water results letters to each of the property owners. Additional information regarding the receptors is provided in Section 4.8.1 and 4.8.2.2 of this report. Table 8 - Summary of Supply Well Dissolved Phase Analytical Results is included in Appendix A, Page 15. Table 11 – Description of Observed Supply Well Analytes is

included in Appendix A, Page 22. A summary of the petroleum impacted in use drinking water well dissolved phase analytical results is provided below:

The pre-treatment groundwater sample collected from onsite in use supply well DW01A during SCR activities yielded measurable TPH-GRO, BTEX, MTBE, naphthalene, and DIPE contamination. This sample also yielded measurable total lead, dissolved lead, additional VOC, and additional SVOC concentrations. The reported dissolved lead concentration was flagged with a J qualifier.

The pre-treatment groundwater sample collected from offsite in use supply well DW02A during SCR activities yielded measurable benzene, xylenes, MTBE, and DIPE contamination. However, the reported xylenes concentration was flagged with a J qualifier. This sample also yielded measurable additional VOC concentrations.

The pre-treatment groundwater sample collected from onsite in use supply well DW03A during SCR activities yielded measurable MTBE and DIPE contamination. However, the reported DIPE concentration was flagged with a J qualifier. This sample also yielded measurable total lead, dissolved lead, and additional VOC concentrations. The reported dissolved lead concentration was flagged with a J qualifier.

The pre-treatment groundwater sample collected from onsite in use supply well DW04A during SCR activities yielded measurable benzene and MTBE contamination. This sample also yielded a measurable total lead concentration. The reported total lead concentration was flagged with a J qualifier.

The pre-treatment groundwater sample collected from onsite in use supply well DW05A during SCR activities yielded measurable MTBE contamination. The reported MTBE concentration was flagged with a J qualifier.

The pre-treatment groundwater sample collected from onsite in use supply well DW07A during SCR activities yielded measurable MTBE and 1,2-Dichloroethane contamination. The reported 1,2-Dichloroethane concentration was flagged with a J qualifier. This sample also yielded measurable total lead and dissolved lead concentrations. The reported dissolved lead concentration was flagged with a J qualifier.

4.6.3.2.3 In Use Supply Wells – Limited Discrete Sampling

Subsequent to completing geophysical borehole logging, discrete groundwater sampling was performed utilizing micro-purge techniques within supply wells DW01A and DW04A. Discrete sampling was performed to document hydrocarbon concentrations proximal to identified fractures/fracture zones in an effort to identify the water-bearing zone(s) introducing petroleum contamination into the well. Samples were collected from DW01A on November 29, 2017 at depths of 88, 108, 143, 159, 179, 211, and 256 feet bgs. Samples were collected from DW04A on November 28, 2017 at depths of 86, 105, 134, 147, and 162 feet bgs. The sample depths were determined in the field immediately following the completion of geophysical logging and were based on preliminary identification of fractures/fracture zone(s).

The discrete groundwater samples from in use supply wells DW01A and DW04A were collected using a QED® submersible bladder pump, flow controller, and flow cell equipped with a dissolved oxygen, temperature, and conductivity probe. Compressed nitrogen and dedicated, disposable, LDPE tubing were used to purge and collect the discrete groundwater samples at each predetermined depth subsequent to obtaining equilibrated/static conditions based on dissolved oxygen, temperature, and conductivity. Water samples were collected in the appropriate samples containers, stored on ice, and transported via courier to the REIC laboratory in Beaver, WV. The discrete groundwater samples were submitted for VOCs analysis via EPA method 8260. Copies of the laboratory results and chain of custody documentation are included in Appendix D.

Results of discrete water sampling at DW01A did not yield an obvious fracture/fracture zone where petroleum contamination is entering the supply well. However, analytical results of the DW01A discrete sampling appear to yield an increasing trend in hydrocarbon concentration as compared to depth. In fact, the highest observed benzene, toluene, MTBE, and DIPE concentrations were observed in the groundwater sample collected approximately 256 feet bgs. In contrast, the discrete sample collected proximal to the bottom of casing (~88 feet bgs) yielded the lowest BTEX, MTBE, and naphthalene concentrations. Based on the limited discrete sampling performed at DW01A it appears petroleum contamination is entering the well from a deep water fracture/fracture zone and not from a leaking well seal at the casing/bedrock interface.

Results of discrete water sampling at DW04A appear to have identified a potential water-bearing zone where petroleum contamination is entering the supply well. The discrete water sample collected approximately 134 feet bgs yielded the highest benzene, MTBE, DIPE, and 1,2-dichloroethane concentrations. However, due to overall low level petroleum concentrations observed throughout the well additional sampling/characterization will be required to confirm the fracture/fracture zones where

petroleum is entering the supply well. It should be noted, as in DW01A, the discrete sample collected proximal to the bottom of casing (~86 feet bgs) yielded the lowest benzene, MTBE, DIPE, and 1,2-dichloroethane concentrations, which likely indicates hydrocarbons are entering the well from a deep water fracture/fracture zone(s) and not from a leaking well seal at the casing/bedrock interface. Table 9 - Summary of Supply Well Discrete Sampling Dissolved Phase Analytical Results is included in Appendix A, Page 21. A summary of the monitoring well dissolved phase analytical results is provided below:

4.6.3.2.4 Out of Use Supply Wells

As part of SCR activities, Greene collected groundwater samples from offsite out of use supply wells DW03B, DW04B, DW06C, DW09B, DW13B, and DW17B. The groundwater sample from supply well DW06C was collected from an inside spigot located on the pressure tank subsequent to turning on the breaker for the existing pump subsequent to allowing the water to flow for approximately 10 minutes. The groundwater samples from supply wells DW04B, DW09B, and DW17B were collected using a generator and a three inch Grundfos submersible pump with 0.75 inch HDPE tubing. Supply wells DW04B, DW09B, and DW17B went dry prior to removing three well volumes, and the samples were collected after allowing the wells to recharge. The groundwater samples from out of use supply wells DW03B and DW13B were collected using dedicated, disposable, HDPE bailers. Clean disposable nitrile gloves were used during all phases of sample collection. The supply well water samples were collected in the appropriate samples containers, stored on ice, and transported via courier to the REIC laboratory in Beaver, WV. The groundwater samples collected from the out of use supply wells were submitted for TPH-GRO analysis via EPA method 8015, VOCs analysis via EPA method 8260, SVOCs analysis via EPA method 8270 (with exception to DW03B), EDB and DBCP analysis via EPA method 8011, and total and dissolved lead analysis via EPA method 200.8 (with exception to DW03B). Copies of the laboratory results and chain of custody documentation are included in Appendix D.

The water samples collected from offsite out of use supply wells DW03B, DW06C, DW09B, DW13B, and DW17B yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, the water sample collected from out of use supply well DW04B yielded evidence of limited petroleum contamination. In addition, chloroform, methylene chloride, dimethyl phthalate, and total lead concentrations were observed during out of use supply well sampling activities. Selected results were flagged with J qualifiers and the concentrations are considered estimates due to the reported results being below the PQLs and equal to or above the laboratory MDLs. As a result, it is likely the analytes are present in the samples, but the results should be viewed only as qualitative and not quantitative. Chloroform is not typically associated with petroleum products and its presence is likely a byproduct of the reaction between chlorine used to treat the groundwater and naturally occurring organic

matter. The EPA has established an MCL for chloroform of 80.0 μg/L. Methylene chloride is an industrial solvent utilized in multiple manufacturing trades. The EPA has established an MCL for methylene chloride of 5.0 μg/L. Dimethyl phthalate is listed by the EPA as a known, common laboratory contaminant and the limited concentration observed is likely due to laboratory contamination. Dimethyl phthalate is primarily utilized in the production of plastics, insect repellants, and pesticides and is generally not associated with petroleum releases. Lead is a naturally occurring element formerly and/or currently utilized in leaded gasoline, paint, ceramics, pipes, fixtures, solder, etc. Lead is generally observed in tap water due to the corrosion of plumbing fixtures, piping, and/or solder. According to the EPA, the action level for lead in public drinking water systems is 15 μg/L. Upon receipt of the laboratory analytical results, Greene submitted drinking water results letters to each of the property owners. Additional information regarding the offsite receptors is provided in Section 4.8.1 and 4.8.2.2 of this report. Table 8 - Summary of Supply Well Dissolved Phase Analytical Results is included in Appendix A, Page 15. Table 11 – Description of Observed Supply Well Analytes is included in Appendix A, Page 22.
A summary of the out of use drinking water well dissolved phase analytical results is provided below:

The groundwater sample collected from offsite out of use supply well DW03B during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs.

The groundwater sample collected from offsite out of use supply well DW04B during SCR activities yielded measurable MTBE and naphthalene contamination. However, the reported MTBE and naphthalene concentrations were flagged with J qualifiers. This sample also yielded measurable chloroform, methylene chloride, and total lead concentrations.

The groundwater sample collected from offsite out of use supply well DW06C during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, this sample yielded total lead and dissolved lead concentrations. The reported dissolved lead concentration was flagged with a J qualifier.

The groundwater sample collected from offsite out of use supply well DW09B during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, this sample yielded a total lead concentration.

The groundwater sample collected from offsite out of use supply well DW13B during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination

at laboratory MDLs. However, this sample yielded total lead and dimethyl phthalate concentrations. The reported dimethyl phthalate concentration was flagged with a J qualifier.

The groundwater sample collected from offsite out of use supply well DW17B during SCR activities yielded Non Detected for chemicals typically associated with petroleum contamination at laboratory MDLs. However, this sample yielded a total lead concentration.

4.6.3.3 Surface Water

On September 18, 2017, one surface water sample (ST01) was collected from the unnamed intermittent tributary to East Fork Beaverdam Creek and two surface water samples (POND01 and POND02) were collected from the pond draining to East Fork Beaverdam Creek. Clean disposable nitrile gloves were used during all phases of sample collection. The surface water samples were collected in the appropriate samples containers, stored on ice, and transported via courier to the REIC laboratory in Beaver, WV. The surface water samples were submitted for TPH-GRO analysis via EPA method 8015, VOCs analysis via EPA method 8260, and EDB and DBCP analysis via EPA method 8011. Copies of the laboratory results and chain of custody documentation are included in Appendix D.

Surface water sample ST01 was collected from the unnamed intermittent tributary topographically downgradient of the Chamblissburg Supply facility. Surface water samples POND01 and POND02 were collected from the pond and pond outfall, respectively. Analytical results of surface water samples POND01 and POND02 yielded Non Detected for all analytes at laboratory MDLs and surface water sample ST01 yielded evidence of limited petroleum contamination. Additional information regarding the surface water is provided in Section 4.8.1 of this report. Table 10 - Summary of Surface Water Dissolved Phase Analytical Results is included in Appendix A, Page 22. The locations of the surface water samples are included on the Surface Water Samples Location Map provided in Appendix B. A summary of the surface water dissolved phase analytical results is provided below:

Surface water sample ST01 collected from the unnamed intermittent tributary to East Fork Beaverdam Creek during SCR activities yielded a toluene concentration of 6.20 µg/L. However, the reported toluene concentration was flagged with a J qualifier and is considered an estimate due the result being below the PQL and equal to or above the laboratory MDL.

Surface water sample POND01 collected from the unnamed pond draining to East Fork Beaverdam Creek during SCR activities yielded Non Detected for all analytes.

Surface water sample POND02 collected from the outfall for the unnamed pond draining to East Fork Beaverdam Creek during SCR activities yielded Non Detected for all analytes.

4.6.4 Free Phase

During this phase of investigation a measurable free product sheen (~0.01 feet) was observed within monitoring well MW04. Table 5 – Summary of Free Product Thicknesses is included in Appendix A, Page 13.

4.7 Plume Characterization

The following sections detail the characterization of the petroleum plume(s) observed at the Chamblissburg Supply facility.

4.7.1 Free Phase Plume Characterization

As previously mentioned, only a limited free product sheen (~0.01 feet) was observed within monitoring well MW04 during this phase of investigation. Due to the lack of free phase petroleum monitoring points, a free product plume map was not generated during this phase of investigation. Based on the significant residual and dissolved phase petroleum contamination observed, it is likely that a free product plume exists at the subject site; however, significant free phase petroleum has not been observed.

4.7.2 Dissolved Phase Plume Characterization

A dissolved phase petroleum plume has been identified at the Chamblissburg Supply facility. During this phase of investigation dissolved phase petroleum contamination was identified in onsite monitoring wells MW01-MW04 and MW09-MW11. Based on the Potentiometric Surface Maps generated during this phase of investigation, a general hydraulic gradient to the east-southeast was observed in the shallow water aquifer. In addition, the Isoconcentration maps generated during this phase of investigation primarily reflect the shallow groundwater gradient depicted on the Potentiometric Surface Maps. Rising head pump tests performed during this phase of investigation calculated the average shallow groundwater flow rate to be approximately 13.69 feet per year. The shallow water dissolved phase contaminant plume would be expected to migrate at this rate with pockets of greater rates where conduits permit flow in channels rather than migration through the soil structure.

In addition to the shallow water petroleum contamination identified onsite, dissolved phase petroleum contamination was observed in onsite supply well DW01A and offsite supply wells DW02A, DW03A, DW04A, DW04B, DW05A, and DW07A. However, analytical results of groundwater samples collected from the sentinel shallow water monitoring wells (MW05, MW06, MW07, and MW08) and the out of use

bored supply well (DW03B) installed proximal to the impacted supply wells yielded Non Detected for petroleum contamination. The lack of petroleum contamination within the sentinel monitoring wells likely indicates: (1) the presence of a shallow water aquifer diving plume, (2) the petroleum contamination is migrating to the impacted supply wells in the deep water aquifer, or (3) a combination of both. A diving plume has potential to migrate along the bedrock interface and enter the drilled drinking water wells though poorly sealed casing within the bedrock. In this condition, the supply well becomes a conduit to the deep water aquifer for the shallow water petroleum contamination, which then allows for both shallow and deep aquifer petroleum contamination migration. In contrast, a series of geologic conduits (fractures, partings, seams, etc.) could allow for communication between the shallow groundwater dissolved phase petroleum plume and the deep aquifer. Further, both circumstances could be present in some capacity at the subject site and in the surrounding area. However, based on the limited site characterization performed to date, the dissolved phase plume characterization is incomplete. Additional subsurface activities are required to sufficiently delineate the petroleum plume(s) associated with the Chamblissburg Supply facility.

Despite the limited characterization completed to date, simple fate and transport modeling was performed during this phase of investigation in an attempt to characterize the dissolved phase plume located in the shallow water aquifer at the subject site. BIOSCREEN-AT modeling software was utilized to characterize the total and individual BTEX, MTBE, and naphthalene dissolved phase plumes at the Chamblissburg Supply facility. These models were generated based on a continuous source, published degradation rates, and the dissolved phase contamination and hydraulic gradient data obtained during the October 10-11, 2017 monitoring and sampling event. In addition, the highest observed (historic or current) hydraulic conductivity, the highest observed SCR concentration, and the highest published solute half-life for each constituent were utilized to demonstrate the worst-case plume migration. Further, in the absence of published or observed data required for modeling, Greene utilized values to represent a worst-case scenario. The shallow water plume size has been estimated based on the presence of dissolved phase petroleum contamination within onsite monitoring wells.

BIOSCREEN-AT modeling data estimates the first order decay benzene and MTBE plumes to be the longest at approximately 425 feet and 445 feet, respectively. It also estimates the toluene, ethylbenzene, xylenes, and naphthalene first order decay plumes to be approximately 179 feet, 145 feet, 244 feet, and 146 feet, respectively. In addition, the total BTEX, MTBE, and naphthalene plume is estimated to be approximately 507 feet. The dissolved phase plume modeled as total BTEX, MTBE, and naphthalene is thought to best depict the actual plume as evidenced by relative distances/concentrations of the impacted dissolved phase receptors observed to date. However, additional subsurface investigation activities will be

required to further calibrate the model to observed site conditions. BIOSCREEN-AT Modeling Input Data and Graphical Representations are included in Appendix G.

4.8 Risk Assessment

Greene performed a risk assessment to evaluate the potential risk to human health and the environment associated with the petroleum compounds detected at the site. The findings of the risk assessment are presented in the following sections.

4.8.1 Identification of Receptors

As part of the previously performed Release Investigation Report, a ¼-mile radius receptor survey was performed to identify potential receptors to the confirmed petroleum contamination. One commercial property, one church property, 32 residential properties, and five agricultural/undeveloped properties were identified during the RIR phase of investigation. Based on the multiple impacted sensitive receptors the survey was expanded to the east (north of Stewartsville Road) during this phase of investigation. An additional two residential properties were identified. At each of the 41 properties/parcels identified during this and the previous phase of investigation the presence of a drinking water well, spring, or additional potential receptor to petroleum contamination was attempted to be confirmed. In situations where no one was able to be located at a property/parcel, a contact letter was left in a conspicuous location and a limited visual inspection was performed. Results of the initial ¼-mile radius receptor survey, additional follow-up activities, and the expanded survey have identified 45 drilled, bored, or hand dug supply wells, three ponds, and the intermittent tributary to East Fork Beaverdam Creek. In addition, topographic information indicates the nearest identified surface water body is an unnamed intermittent tributary to East Fork Beaverdam Creek located approximately 700 feet to the northeast of the shared gasoline UST basin and approximately 620 feet northeast of the shared diesel fuel and kerosene UST basin. Table 12 - Summary of the Receptor Survey Results is included in Appendix A, Page 25. The locations of the potential receptors are included on the Potential Receptors Location Map provided in Appendix B.

4.8.2 Identification of Exposure Pathways

The identification of potential exposure pathways is necessary to evaluate the risk posed by the extent of the release. An exposure pathway requires that there be some mechanism for any person or population to come into contact with one or more of the media which contain the contaminant of concern. No risk is assumed in the absence of contamination or in the absence of an exposure pathway.

4.8.2.1 Inhalation

The presence of concrete, gravel, and grass surface coverings in the immediate vicinity of the UST systems and the depth to petroleum contamination mitigates concern associated with potential exposure to VOC vapors emanating from the subsurface.

4.8.2.2 Ingestion

The most likely pathway for the ingestion of petroleum contamination would be through consumption of contaminated groundwater within the area. Prior to this phase of investigation, groundwater samples collected from onsite supply well DW01A and offsite supply wells DW02A, DW03A, DW04A, DW05A, and DW07A yielded measurable petroleum contamination. As a result, CFU systems were installed on DW01A-DW05A and DW07A (at the Franklin Residence only) in order to mitigate concern associated with ingestion of petroleum contamination from the in use supply wells. At the request of the property owner, a CFU system was not installed on DW07A at the Scott Residence.

During this phase of the investigation, Greene collected drinking water samples from multiple offsite receptors. At this time, these offsite receptors do not appear to be impacted by the petroleum release currently under investigation. However, should any additional offsite in use drinking water receptors become impacted, the contamination will be reported to the VA DEQ AWS program and CFUs will likely be installed to mitigate any associated risk. A surface water sample collected during this phase of investigation from the unnamed intermittent tributary to East Fork Beaverdam Creek yielded a toluene concentration of 6.20 μg/L.

4.8.2.3 Dermal Contact

The presence of concrete, asphalt, gravel, and grass surface coverings in the immediate vicinity of the former and current UST systems and the depth to petroleum contamination mitigates concern associated with potential contact with adsorbed phase contaminants. In addition, carbon filtration units have been installed on the impacted supply wells, with exception to DW07A at the Scott Residence, mitigating concern associated with potential contact with dissolved phase contaminants. However, due to the presence of limited measurable petroleum contamination within the unnamed intermittent tributary to East Fork Beaverdam Creek, there remains potential for dermal contact with limited dissolved phase petroleum contamination.

5.0 Remediation Assessment

The following sections outline applicable remediation technologies that are commonly implemented at petroleum impacted sites that warrant corrective action measures.

5.1 Description of Remediation Alternatives

5.1.1 Soil Vapor Extraction with In Situ Air Sparging

Vapor extraction refers to the technique of removing contaminant vapors from the unsaturated zone by means of active or passive venting. A network of extraction points is installed either vertically or horizontally within the contaminated zone and manifolded to a surface discharge point. Extracted vapors either are vented directly to the atmosphere or to an off-gas treatment unit. The need for off-gas treatment likely is a function of site-specific conditions and local regulatory emission standards. Active vapor extraction has proven to expedite remediation of free- and dissolved-phase contamination as well. The decreased pore pressure within the unsaturated zone created by the induced vacuum increases the volatilization of contaminants within the respective plumes below.

Sparging has been used successfully to expedite remediation through vapor extraction. Sparging involves the injection of air into the subsurface through a series of injection points. The introduction of clean air increases the rate of pore volume exchange between clean air and the subgrade contaminant vapor. A greater percentage of contaminant vapor can then be extracted using a vapor extraction system. Groundwater sparging, the introduction of clean air into the phreatic zone, has been used with great success in expediting the remediation of dissolved-phase contaminant plumes. Greatest efficiency has been documented through the use of groundwater sparging in association with vapor extraction systems. Remedial system design will require modifications to address the presence of voids/fractures. A comprehensive, tabular summary of this remedial approach is presented in Table 13 – In Situ Air Sparging with Soil Vapor Extraction included in Appendix A, Page 31.

5.1.2 Groundwater Pump & Treat

Groundwater pump and treat technology involves extracting contaminated groundwater for treatment at the surface. A network of groundwater recovery wells is installed, depending upon site specific conditions and hydrogeologic considerations. Groundwater is recovered from the extraction points through systematic pumping. Once at the surface, the extracted liquids can be treated on-site using various remedial components or transported off-site for treatment and disposal. On-site treatment methods may include activated carbon filtration, residence in a bioreactor, air stripping, etc. As in the case of vapor extraction, the use of an air stripper may require off-gas permitting. Further permitting may be required by the local regulatory agency for the discharge of the treated waste stream. A comprehensive, tabular summary of this remedial approach is presented in Table 14 – Groundwater Pump & Treat Systems included in Appendix A, Page 31.

5.1.3 In Situ Bioremediation

In situ bioremediation involves a process where oxygen and nutrients are introduced to the unsaturated zone through well points or an infiltration gallery to promote contaminant degradation by naturally-occurring organisms. Commercially available bacteria also may be employed where the indigenous population is insufficient. The effectiveness of bioremediation is a function of various physical properties of the subsurface environment and the contaminants, though it is proven effective in most settings impacted by petroleum hydrocarbons. This process allows for treatment of contaminated groundwater in-place, eliminating the requirement for pumping and the subsequent treatment of extracted groundwater. Costs associated with the implementation and management of a bioremediation system may vary, but have been estimated between $60 and $123 per cubic yard ($40 to $90 per ton). Treatment time may vary significantly, generally ranging from six months to four years. A comprehensive, tabular summary of this remedial approach is presented in Table 15 – In Situ Bioremediation included in Appendix A, Page 32.

5.1.4 Dual-Phase Extraction

Residual- and dissolved-phase petroleum compounds have been demonstrated by industry to effectively be removed using dual-phase extraction technology. A rotary-claw vacuum pump removes liquid- and vapor-phase contaminants from recovery wells or trenches. Aboveground treatment is dependent on the nature of the effluent waste stream, but typically it involves the mechanical separation of vapors, free-phase petroleum, and groundwater, removal of dissolved-phase compounds from groundwater via stripping and carbon filtration, and discharge of treated groundwater under applicable permit authority. Vapors may be emitted to the atmosphere without treatment if calculated emission rates are below permit threshold limits.

Dual-phase systems have proven to be effective in attaining remediation endpoints within one to four years. Capital costs associated with a fixed recovery and treatment system typically ranges from $80,000 to $200,000. Annual operation and maintenance costs typically range from $25,000 to $75,000. A comprehensive, tabular summary of this remedial approach is presented in Table 16 – Dual Phase Extraction included in Appendix A, Page 32.

In some cases, short-term removal using a mobile dual-phase extraction and treatment system can be effective in recovering significant contaminant mass and reducing the long-term impact of petroleum releases. When performed as a feasibility study prior to issuance of a Corrective Action Plan, a 72-hour removal event typically costs approximately $15,000.

5.1.5 Alternate Water Supply

Providing an AWS is a form of corrective action primarily implemented when petroleum contamination is detected within a drinking water well. In some situations, provision of an AWS may eliminate potential downgradient receptors at a site and could reduce or eliminate the corrective actions required. However, additional remediation often is required in conjunction with an AWS to recover free product and/or prevent further migration of petroleum contamination towards sensitive receptors. Generally, an AWS is provided by the installation of a new drinking water well or connection to a municipally-provided public water supply.

The installation of an AWS, where possible, is generally a more cost-effective means of corrective action than active remediation; however, the costs can differ greatly depending on the type of AWS provided and the locality of the property. Costs associated with the installation of a new drinking water well including connection to the residence/building typically range from $8,000-$12,000. Alternatively, costs associated with connection to a public water supply typically range from $2,000-$6,000 and are dependent on if a water main is located proximal to the property.

5.2 Remedial Recommendation

Based on the confirmed petroleum impact to onsite and offsite drinking water wells, Greene recommends providing alternate water supplies by installing new supply wells due to the lack of municipally-provided potable water in the area. As site characterization activities are ongoing at the site, Greene recommends first installing deep water monitoring wells in locations anticipated to be outside of the dissolved phase petroleum plume. In addition, Greene recommends the deep water monitoring wells are installed to Virginia Department of Health specifications, which would allow for the conversion of the deep water monitoring wells to drinking water supply wells at a later date.

Based on the presence of free phase petroleum, significant dissolved phase petroleum, greater than saturated residual phase petroleum, the potential impact to the unnamed intermittent tributary to East Fork Beaverdam Creek, and the potential risk to additional offsite supply wells, further corrective action measures will likely be required. However, further data is required to determine additional remedial recommendations for the subject site at this time.

6.0 Conclusions and Recommendations

Based on the findings of the RIR, the VA DEQ requested SCR activities be performed at the Chamblissburg Supply facility. As part of SCR activities 11 monitoring wells (MW01-MW11) were installed in effort to delineate subsurface petroleum contamination. In addition aquifer characterization,

sampling activities, and geologic and geophysical analyses of the site were performed. Tank and line tightness testing performed during SCR activities yielded evidence of a leak in the premium gasoline product line proximal to the premium gasoline dispenser.

To date, vapor phase, residual phase, dissolved phase, and free phase petroleum contamination have been encountered in the subsurface at the Chamblissburg Supply facility. During this phase of investigation measurable free product was observed in monitoring well MW04. In addition, dissolved phase petroleum concentrations were observed to be above the recognized aqueous solubility for TPH-GRO, which likely indicates the presence of further free phase petroleum or the potential for free phase petroleum formation. Soil samples collected from soil borings installed proximal to the gasoline UST system yielded a maximum TPH-GRO concentration of 15,700 mg/kg, which is above the 8,300 mg/kg value recognized by the VA DEQ as indicating gasoline saturation. Further, analytical results of soil samples collected from soil boring B24 yielded a maximum TPH-DRO concentration of 18,900 mg/kg, which is above the 11,000 mg/kg and 11,200 mg/kg values recognized by the VA DEQ as indicating diesel fuel and kerosene saturation, respectively.

Groundwater samples collected from the onsite monitoring wells (MW01-MW04 and MW09-MW11) during this phase of investigation confirmed the presence of dissolved phase petroleum contamination in the shallow groundwater aquifer. In addition, drinking water samples collected from supply wells DW01A, DW02A, DW03A, DW04A, DW05A, and DW07A continue to yield evidence of petroleum impact. Further, limited petroleum contamination was observed within the unnamed intermittent tributary to East Fork Beaverdam Creek.

It should be noted, there appear to have been as many as three (3) separate releases of petroleum at the Chamblissburg Supply facility. The tightness testing performed during SCR activities yielded evidence of a premium gasoline line leak. In addition, soil and groundwater samples collected proximal to the diesel fuel/kerosene USTs/dispenser island have yielded evidence indicating a historic release from this UST system as the tanks and lines currently tested tight. Finally, the presence of measurable MTBE, DIPE, and 1,2-dichloroethane concentrations within monitoring well and drinking water well samples collected during this phase of investigation likely indicate a historic release has impacted the groundwater in the area. MTBE, and most likely DIPE, began being phased out of product available in the state of Virginia in 2006. In addition, 1,2-dichloroethane was used as an anti-knock agent in leaded fuels, which began being phased out of gasoline in the 1970s. It is unlikely MTBE, DIPE, and/or 1,2-dichloroethane would be present in a recent or current release of petroleum at the facility.

Relative groundwater elevations within the 11 monitoring wells as measured on October 10, 2017 depict a general hydraulic gradient to the east-southeast and Isoconcentration Maps generated during this phase of investigation appear to indicate the shallow water dissolved phase plume also is migrating to the east-southeast. Limited fate and transport modeling of the shallow water contamination indicates the potential for a 507 foot dissolved phase plume, which is less than the distance to impacted supply well DW07A located approximately 1,000 feet east. However, geologic and geophysical analysis activities performed during this SCR did not yield evidence of any direct fracture pathways between the onsite dissolved phase petroleum contamination and the impacted supply wells.

The results of the geophysical borehole logging and discrete sampling performed during this phase of investigation did not indicate the well seals at the casing/bedrock interface of impacted supply wells (DW01A and DW04A) are allowing commingling of the shallow and deep water aquifers. In addition, due to the relatively short distance between the onsite dissolved phase plume and onsite sentinel supply well MW08, it is unlikely the lack of contamination within MW08 is the result of a diving plume. Further, discrete sampling performed at DW01A yielded an increase in dissolved phase petroleum contamination with depth, likely indicating petroleum impact is from a deep aquifer water-bearing zone/fracture. As a result, it appears the petroleum contamination has migrated to the deep water aquifer prior to intersecting the impacted supply wells. However, further site characterization is required to confirm the presence or absence of a diving plume and determine the pathway for petroleum contamination at the site and surrounding area.

Due to the presence of free phase petroleum, significant dissolved phase contamination onsite, and impact to onsite and offsite sensitive receptors, Greene recommends additional work be performed at the Chamblissburg Supply facility. Specifically, Greene recommends the installation of eight additional onsite soil borings/shallow groundwater monitoring wells to further delineate the observed residual phase petroleum contamination and the shallow water petroleum contamination. In addition, Greene recommends installing deep water monitoring wells in locations anticipated to be outside of the dissolved phase petroleum plume on properties P02, P04, and P20. The deep water monitoring wells will be installed to Virginia Department of Health specifications, which would allow for the conversion of the wells to drinking water supply wells at a later date.

Subsequent to the installation of the additional wells, Greene recommends the performance of pump-down rising head testing to include the newly installed monitoring wells. Data obtained from the groundwater sampling, pump-down tests, and additional aquifer characterization will be utilized to further estimate the approximate limits of the contaminant plume(s), update Isoconcentration Maps and fate and

transport modeling, and will aid in the determination of remedial endpoints. Proposed shallow water and deep water monitoring well location maps are included in Appendix B.

Greene also recommends additional work be performed to determine the appropriate remedial technology for the facility. Specifically, corrective action endpoints will be determined based on free phase petroleum and the risk to sensitive receptors. Further, Greene recommends the performance of an aggressive fluid vapor recovery event (AFVR) utilizing a vacuum truck to determine the feasibility of vacuum enhanced corrective action at the Chamblissburg Supply facility. Results of the limited AFVR will then be utilized to perform a pilot study designed to aid in the selection and development of an appropriate long-term remedial technology to achieve corrective action endpoints.

Finally, Greene recommends ongoing drinking water and surface water sampling be performed. Specifically, Greene recommends collecting water samples from offsite supply wells DW03B, DW04B, DW06B, DW06C, DW08A, DW08B, DW09A, DW09B, DW10A, DW11A, DW33A, DW33B, the unnamed tributary, and the unnamed pond.

End of the Site Characterization Report

APPENDIX A

Tables

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Table 1.

Summary of UST Information[1]

	UST #1	UST #2	UST #3	UST #4	UST #5	UST #6
VA DEQ TANK ID	1	2	3	4	5	6
TYPE	Coated and Cathodically Protected	Coated and Cathodically Protected	Coated and Cathodically Protected	Coated and Cathodically Protected	Coated and Cathodically Protected	Coated and Cathodically Protected
CAPACITY (Gallons)	1,000	1,000	4,000	5,000	6,000	5,000
CONTENTS	Kerosene	Diesel Fuel	Gasoline	Gasoline	Gasoline	Gasoline
PIPING	Cathodically Protected Galvanized Steel (no valve: suction)[2]	Cathodically Protected Galvanized Steel (no valve: suction)[2]	Cathodically Protected Galvanized Steel (no valve: suction)[2]	Cathodically Protected Galvanized Steel (no valve: suction)[2]	Cathodically Protected Galvanized Steel (no valve: suction)[2]	Cathodically Protected Galvanized Steel (no valve: suction)[2])
INSTALLATION DATE	April 22, 1978	April 22, 1978	April 22, 1978	April 22, 1978	April 22, 1978	April 22, 1978
STATUS	Currently In Use	Currently In Use	Currently In Use	Currently In Use	Currently In Use	Currently In Use
SPILL PREVENTION	Yes	Yes	Yes	Yes	Yes	Yes
OVERFILL DEVICE	Yes	Yes	Yes	Yes	Yes	Yes

[1]UST information was obtained from site history research, site inspections, and/or the VA DEQ tank database updated on July 5, 2017.
[2]Tank testing performed during RIR & SCR activities appear to indicate the presence of a check valve.

Table 2.

Summary of Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B01-1	0-5	Petroleum Odor	4,737	Yes
B01-2	5-10	Strong Petroleum Odor	4,117	No
B01-3	10-15	Strong Petroleum Odor	3,583	No
B01-4	15-20	Strong Petroleum Odor	3,302	No
B01-5	20-25	Strong Petroleum Odor	2,957	No
B01-6	25-30	Strong Petroleum Odor	2,559	No
B01-7	30-33	Strong Petroleum Odor	2,250	Yes
Soil boring B01 was advanced to rod refusal at 32.5 feet bgs in an attempt to encounter groundwater; however, groundwater was not identified.				
B02-1	0-5	Slight Petroleum Odor	1,818	No
B02-2	5-10	Petroleum Odor	643.9	No
B02-3	10-15	Strong Petroleum Odor	2,757	Yes
B02-4	15-20	Strong Petroleum Odor	2,115	Yes
B03-1	0-5	Slight Petroleum Odor	163.6	No
B03-2	5-10	Slight Petroleum Odor	198.5	No
B03-3	10-15	Slight Petroleum Odor	118.8	No
B03-4	15-20	Slight Petroleum Odor	141.0	No
B04-1	0-5	No Petroleum Odor	57.9	No
B04-2	5-10	No Petroleum Odor	70.9	No
B04-3	10-15	No Petroleum Odor	87.7	No
B04-4	15-20	Slight Petroleum Odor	99.9	Yes
B05-1	0-5	No Petroleum Odor	65.0	No
B05-2	5-10	No Petroleum Odor	89.6	No
B05-3	10-15	No Petroleum Odor	30.2	No
B05-4	15-20	No Petroleum Odor	26.5	Yes
B06-1	0-5	No Petroleum Odor	32.7	No
B06-2	5-10	No Petroleum Odor	28.5	No
B06-3	10-15	No Petroleum Odor	21.8	No
B06-4	15-20	No Petroleum Odor	31.4	No

Table 2 (Cont'd).

Summary of Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B07-1	0-5	No Petroleum Odor	19.1	No
B07-2	5-10	No Petroleum Odor	13.9	No
B07-3	10-15	Slight Petroleum Odor	9.3	No
B07-4	15-20	No Petroleum Odor	13.2	Yes
B08-1	0-5	No Petroleum Odor	5.5	No
B08-2	5-10	No Petroleum Odor	7.7	No
B08-3	10-15	Slight Petroleum Odor	5.8	No
B08-4	15-20	Slight Petroleum Odor	0.1	No
B09-1	0-5	No Petroleum Odor	10.9	No
B09-2	5-10	No Petroleum Odor	2.0	No
B09-3	10-15	Slight Petroleum Odor	3.2	No
B09-4	15-20	Slight Petroleum Odor	0.0	No
B10-1	0-5	No Petroleum Odor	0.0	No
B10-2	5-10	Slight Petroleum Odor	0.0	No
B10-3	10-15	Slight Petroleum Odor	2.6	No
B10-4	15-20	Petroleum Odor	334.8	Yes
B11-1	0-5	Strong Petroleum Odor	1,092	Yes
B11-2	5-10	Strong Petroleum Odor	1,408	No
B11-3	10-15	Strong Petroleum Odor	1,173	No
B11-4	15-20	Strong Petroleum Odor	1,043	Yes
B11-5	20-31.75	Soil boring B11 was advanced to rod refusal at 31.75 feet bgs in an attempt to encounter groundwater. Soil samples were not collected during these additional activities and groundwater was not identified.		
B12-1	0-5	Petroleum Odor	1,127	Yes
B12-2	5-10	Petroleum Odor	1,251	No
B12-3	10-15	Strong Petroleum Odor	1,205	No
B12-4	15-20	Strong Petroleum Odor	1,183	Yes

Table 2 (Cont'd).

Summary of Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B13-1	0-5	Slight Petroleum Odor	1,234	Yes
B13-2	5-10	Slight Petroleum Odor	1,270	No
B13-3	10-15	Slight Petroleum Odor	515.7	No
B13-4	15-20	Petroleum Odor	367.0	Yes
B14-1	0-5	No Petroleum Odor	104.8	No
B14-2	5-10	No Petroleum Odor	38.6	No
B14-3	10-15	No Petroleum Odor	22.0	No
B14-4	15-20	No Petroleum Odor	16.6	No
B15-1	0-5	No Petroleum Odor	14.3	No
B15-2	5-10	No Petroleum Odor	14.1	No
B15-3	10-15	Slight Petroleum Odor	19.0	No
B15-4	15-20	Petroleum Odor	88.5	Yes
B16-1	0-5	No Petroleum Odor	0.9	No
B16-2	5-10	No Petroleum Odor	0.0	No
B16-3	10-15	No Petroleum Odor	0.0	No
B16-4	15-20	No Petroleum Odor	0.0	No
B16-5	20-25	Slight Petroleum Odor	0.9	No
B16-6	25-30	Slight Petroleum Odor	2.8	No
B16-7	30-32	Slight Petroleum Odor	2.0	No
B16-8	35	Slight Petroleum Odor	0.0	Yes
B16-9	40	Slight Petroleum Odor	0.2	No
B16-10	45	Slight Petroleum Odor	0.0	Yes
B16-11	50	Slight Petroleum Odor	0.0	No
B16-12	55	Slight Petroleum Odor	0.0	No
B17-1	0-5	No Petroleum Odor	0.0	No
B17-2	5-10	No Petroleum Odor	6.4	No
B17-3	10-15	Slight Petroleum Odor	18.0	Yes
B17-4	15-20	Petroleum Odor	33.8	Yes
B17-5	20-25	Petroleum Odor	39.4	Yes

Table 2 (Cont'd).

Summary of Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B17-6	25-28	Petroleum Odor	41.6	No
B17-7	30	Petroleum Odor	23.9	Yes
B17-8	35	Strong Petroleum Odor	38.2	Yes
B17-9	40	Strong Petroleum Odor	15.8	Yes
B17-10	45	Strong Petroleum Odor	8.2	Yes
B17-11	50	Strong Petroleum Odor	11.2	No
B17-12	55	Strong Petroleum Odor	10.4	No
B18-1	0-5	Strong Petroleum Odor	3,291	Yes
B18-2	5-10	Strong Petroleum Odor	2,067	Yes
B18-3	10-15	Strong Petroleum Odor	1,951	Yes
B18-4	15-20	Strong Petroleum Odor	1,957	Yes
B18-5	20-25	Strong Petroleum Odor	1,458	Yes
B18-6	25-30	Strong Petroleum Odor	1,631	Yes
B18-7	30-32	Strong Petroleum Odor	1,838	No
B18-8	35	Strong Petroleum Odor	1,185	Yes
B18-9	40	Strong Petroleum Odor	1,372	Yes
B18-10	45	Strong Petroleum Odor	1,320	Yes
B18-11	50	Strong Petroleum Odor	1,257	No
B18-12	55	Strong Petroleum Odor	1,341	No
B19-1	0-5	Strong Petroleum Odor	1,915	Yes
B19-2	5-10	Strong Petroleum Odor	1,858	Yes
B19-3	10-15	Strong Petroleum Odor	1,668	Yes
B19-4	15-20	Strong Petroleum Odor	1,743	Yes
B19-5	20-25	Strong Petroleum Odor	1,682	Yes
B19-6	25-30	Strong Petroleum Odor	1,658	Yes
B19-7	30-34	Strong Petroleum Odor	1,511	No
B19-8	35	Strong Petroleum Odor	1,736	Yes
B19-9	40	Strong Petroleum Odor	1,748	Yes
B19-10	45	Strong Petroleum Odor	1,374	Yes

Table 2 (Cont'd).

Summary of Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B19-11	50	Strong Petroleum Odor	1,386	No
B19-12	55	Strong Petroleum Odor	1,563	No
B20-1	0-5	No Petroleum Odor	0.0	No
B20-2	5-10	No Petroleum Odor	0.0	No
B20-3	10-15	No Petroleum Odor	0.0	No
B20-4	15-20	No Petroleum Odor	0.0	No
B20-5	20-25	No Petroleum Odor	0.0	No
B20-6	25-28	No Petroleum Odor	0.0	No
B20-7	30	No Petroleum Odor	0.0	No
B20-8	35	No Petroleum Odor	0.0	Yes
B20-9	40	No Petroleum Odor	0.0	No
B20-10	45	No Petroleum Odor	0.0	Yes
B20-11	50	No Petroleum Odor	0.0	No
B20-12	55	No Petroleum Odor	0.0	No
B21-1	0-5	No Petroleum Odor	0.0	No
B21-2	5-10	No Petroleum Odor	0.0	No
B21-3	10-15	No Petroleum Odor	0.0	No
B21-4	15-20	No Petroleum Odor	0.0	No
B21-5	20-25	No Petroleum Odor	0.0	No
B21-6	30	No Petroleum Odor	0.0	No
B21-7	35	No Petroleum Odor	0.0	Yes
B21-8	40	No Petroleum Odor	0.0	No
B21-9	45	No Petroleum Odor	0.0	Yes
B21-10	50	No Petroleum Odor	0.0	No
B21-11	55	No Petroleum Odor	0.7	No
B22-1	0-5	No Petroleum Odor	0.0	No
B22-2	5-10	No Petroleum Odor	0.0	No
B22-3	10-15	No Petroleum Odor	0.0	No
B22-4	15-20	No Petroleum Odor	0.0	No

Table 2 (Cont'd).

Summary of Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B22-5	20-25	No Petroleum Odor	0.0	No
B22-6	25-29	No Petroleum Odor	0.0	No
B22-7	30	No Petroleum Odor	0.0	No
B22-8	35	No Petroleum Odor	0.0	Yes
B22-9	40	No Petroleum Odor	0.0	No
B22-10	45	No Petroleum Odor	0.0	Yes
B22-11	50	No Petroleum Odor	0.0	No
B22-12	55	No Petroleum Odor	0.0	No
B23-1	0-5	No Petroleum Odor	0.0	No
B23-2	5-10	No Petroleum Odor	0.0	No
B23-3	10-15	No Petroleum Odor	0.4	No
B23-4	15-20	No Petroleum Odor	0.1	No
B23-5	20-25	No Petroleum Odor	0.0	No
B23-6	25-30	No Petroleum Odor	0.1	No
B23-7	35	No Petroleum Odor	0.0	Yes
B23-8	40	No Petroleum Odor	0.0	No
B23-9	45	No Petroleum Odor	0.0	Yes
B23-10	50	No Petroleum Odor	0.0	No
B23-11	55	No Petroleum Odor	0.0	No
B24-1	0-5	Slight Petroleum Odor	279.2	Yes
B24-2	5-10	Strong Petroleum Odor	468.5	Yes
B24-3	10-15	Strong Petroleum Odor	492.1	Yes
B24-4	15-20	Strong Petroleum Odor	449.7	Yes
B24-5	20-25	Strong Petroleum Odor	480.6	Yes
B24-6	25-27	Strong Petroleum Odor	508.3	No
B24-7	30	Strong Petroleum Odor	458.7	Yes
B24-8	35	Petroleum Odor	202.6	Yes
B24-9	40	Petroleum Odor	339.7	Yes
B24-10	45	Petroleum Odor	65.6	Yes

Table 2 (Cont'd).

Summary of Field Screening Results

Sample Identification	Depth (feet bgs)	Olfactory Observation	PID Readings (ppm)	Retained for Analysis
B24-11	50	Petroleum Odor	74.4	No
B24-12	55	Strong Petroleum Odor	93.9	No
B25-1	0-5	Slight Petroleum Odor	135.7	Yes
B25-2	5-10	Slight Petroleum Odor	234.2	Yes
B25-3	10-15	Petroleum Odor	270.2	Yes
B25-4	15-20	Petroleum Odor	397.2	Yes
B25-5	20-25	Petroleum Odor	447.9	Yes
B25-6	25-27	Strong Petroleum Odor	651.7	No
B25-7	30	Petroleum Odor	101.4	Yes
B25-8	35	Petroleum Odor	108.3	Yes
B25-9	40	Petroleum Odor	78.2	Yes
B25-10	45	Slight Petroleum Odor	109.1	Yes
B25-11	50	Slight Petroleum Odor	21.8	No
B25-12	55	Slight Petroleum Odor	38.1	No
B26-1	0-5	No Petroleum Odor	0.0	No
B26-2	5-10	Slight Petroleum Odor	16.9	No
B26-3	10-15	Slight Petroleum Odor	25.7	No
B26-4	15-20	Petroleum Odor	138.7	No
B26-5	20-24.5	Petroleum Odor	123.9	No
B26-6	30	Slight Petroleum Odor	16.4	No
B26-7	35	Slight Petroleum Odor	15.2	Yes
B26-8	40	Slight Petroleum Odor	12.1	No
B26-9	45	Slight Petroleum Odor	14.6	Yes
B26-10	50	Slight Petroleum Odor	9.0	No
B26-11	55	Slight Petroleum Odor	12.4	No

Table 3.

Summary of Soil Boring Residual Phase Analytical Results

Sample Identification	Date	Sample Depth (feet)	TPH-GRO[1]	TPH-DRO	Benzene[2]	Toluene	Ethyl-benzene	Xylenes (total)	MTBE	Naphthalene
B01-1	06/30/16	0-5	**13,200***	1,970	22.9	458	244	1,180	<25.0	48.5
B01-7	06/30/16	30-32.5	4,220	390	7.80[3]	167	64.0	367	<25.0	64.0
B02-3	06/30/16	10-15	6,110	1,240	<5.00	130	72.8	486	<25.0	57.4
B02-4	06/30/16	15-20	4,600	511	7.20[3]	183	80.8	471	<25.0	50.6
B04-4	06/30/16	15-20	<2.50	<3.97	<0.00200	0.00468	<0.00200	<0.00600	<0.0100	<0.00200
B05-4	06/30/16	15-20	<2.38	<3.97	<0.00198	0.00636	<0.00198	<0.00594	<0.00990	<0.00198
B07-4	06/30/16	15-20	<2.48	<3.98	<0.00198	<0.00198	<0.00198	<0.00594	<0.00990	<0.0125
B10-4	06/30/16	15-20	93.6	<3.97	<0.0125	0.0428	0.0138[3]	0.0732[3]	<0.0625	<0.0125
B11-1	06/30/16	0-5	3,400	1,100	<5.00	49.4	17.4	337	<25.0	<5.0
B11-4	06/30/16	15-20	**10,300***	1,030	32.9	601	182	1,360	<25.0	44.3
B12-1	06/30/16	0-5	381	23.9	0.0710[3]	2.12	1.23	13.4	1.03	1.08
B12-4	06/30/16	15-20	**25,900***	6,930	76.3	1,060	419	2,380	<25.0	174
B13-1	06/30/16	0-5	1,840	3,780	<0.500	<0.500	<0.500	2.57[3]	<2.50	4.32
B13-4	06/30/16	15-20	1,420	6,880	<0.500	<0.500	<0.500	252	<2.50	3.75
B15-4	06/30/16	15-20	<2.48	506	<0.00198	0.00550	<0.00198	<0.00594	<0.00990	<0.00198
B16-8	09/18/17	35	1.70[3]	NA[4]	<0.00194	<0.00194	<0.00194	<0.00388	<0.00970	<0.00194
B16-10	09/18/17	45	<1.25	NA	<0.00198	<0.00198	<0.00198	<0.00396	<0.00990	<0.00198
B17-3	09/18/17	10-15	<1.20	NA	<0.00198	<0.00198	<0.00198	<0.00396	<0.00990	<0.00198
B17-4	09/18/17	15-20	<1.25	NA	<0.00198	<0.00198	<0.00198	<0.00396	<0.00990	<0.00198
B17-5	09/18/17	20-25	<1.25	NA	<0.00194	<0.00194	<0.00194	<0.00388	<0.00970	<0.00194
B17-7	09/18/17	30	<1.22	NA	<0.00198	<0.00198	<0.00198	<0.00396	<0.00990	<0.00198
B17-8	09/18/17	35	<1.22	NA	<0.00198	<0.00198	<0.00198	<0.00396	<0.00990	<0.00198
B17-9	09/18/17	40	<1.18	NA	<0.00196	<0.00196	<0.00196	<0.00392	<0.00980	<0.00196
B17-10	09/18/17	45	<1.22	NA	<0.00194	<0.00194	<0.00194	<0.00388	<0.00970	<0.00194
B18-1[5]	09/18/17	0-5	**9,570***	NA	12.1	311[6]	191	1,044[6]	8.22	NA
B18-2	09/18/17	5-10	**15,700***	NA	24.6	984[6]	422	2,189[6]	8.30	154
B18-3	09/18/17	10-15	936	NA	0.740[3]	26.0	16.3	102.8	6.31	78.7
B18-4	09/18/17	15-20	3,170	NA	<0.500	82.0	51.2	362	<2.50	43.0

Table 3 (Cont'd).

Summary of Soil Boring Residual Phase Analytical Results

Sample Identification	Date	Sample Depth (feet)	TPH-GRO[1]	TPH-DRO	Benzene[2]	Toluene	Ethyl-benzene	Xylenes (total)	MTBE	Naphthalene
B18-5	09/18/17	20-25	**8,510***	NA	11.1	555[6]	209	1,204	5.35	71.8
B18-6[5]	09/18/17	25-30	3,910	NA	26.3	610[6]	258[6]	1,306[6]	11.6	NA
B18-8	09/20/17	35	2,830	NA	2.86	309	151	926	<2.50	62.6
B18-9	09/20/17	40	680	NA	<0.500	5.44	4.73	38.6	<2.50	4.92
B18-10	09/20/17	45	3,610	NA	9.17	260	76.8	401.1	3.13[3]	21.3
B19-1	09/18/17	0-5	**9,060***	NA	11.1	427	190	1,160	8.00	115
B19-2	09/18/17	5-10	4,580	NA	0.670[3]	150	96.1	610	<2.50	36.1
B19-3[5]	09/18/17	10-15	**12,600***	NA	23.1	588[6]	260[6]	1,283[6]	7.70	NA
B19-4	09/18/17	15-20	8,100	NA	4.56	433	189	1,068	<2.50	102
B19-5	09/18/17	20-25	5,450	NA	3.79	342	143	822	2.71[3]	94.4
B19-6[5]	09/18/17	25-30	5,830	NA	23.4	318[6]	107	564	20.3	NA
B19-8	09/21/17	35	6,930	NA	18.1	405	132	773	8.92	33.4
B19-9	09/21/17	40	2,630	NA	0.830[3]	209	29.0	182.2	<2.50	14.6
B19-10	09/21/17	45	637	NA	<0.200	0.593	0.678	4.70	<1.00	1.62
B20-8	09/19/17	35	1.34[3]	NA	<0.00194	0.00620	<0.00194	<0.00388	<0.00970	<0.00194
B20-10	09/19/17	45	<1.22	NA	0.00223[3]	0.04170	<0.00190	<0.00380	0.00955[3]	<0.00190
B21-7	09/19/17	35	<1.22	NA	<0.00198	0.00205[3]	<0.00198	<0.00396	<0.00990	<0.00198
B21-9	09/19/17	45	<1.22	NA	<0.00196	0.00251[3]	<0.00196	<0.00392	<0.00980	<0.00196
B22-8	09/19/17	35	<1.18	NA	<0.00196	<0.00196	<0.00196	<0.00392	<0.00980	<0.00196
B22-10	09/19/17	45	<1.20	NA	<0.002	<0.002	<0.002	<0.004	<0.010	<0.002
B23-7	09/20/17	35	<1.15	NA	<0.00198	<0.00198	<0.00198	<0.00396	<0.00990	<0.00198
B23-9	09/20/17	45	<1.12	NA	<0.00198	0.00515	<0.00198	<0.00396	<0.00990	<0.00198
B24-1[5]	09/20/17	0-5	168	6,310	<0.500	<0.500	<0.500	3.12	<0.00250	NA
B24-2	09/20/17	5-10	126	9,130	<0.00198	0.00259[3]	<0.00198	0.00894	<0.00990	<0.00198
B24-3	09/20/17	10-15	88.9	6,690	<0.00198	0.0155	0.00505	0.08284[6]	<0.00990	<0.00198
B24-4	09/20/17	15-20	112	7,910	0.00465	0.0166	0.0473	0.3982	<0.00990	<0.00198
B24-5[5]	09/20/17	20-25	1,740	**18,900***	<0.500	<0.500	1.04	8.53	<2.5	NA
B24-7	09/20/17	30	127	10,500	0.00927	0.0419	0.0840[6]	0.4840[6]	<0.00990	0.212[6]

Table 3 (Cont'd).

Summary of Soil Boring Residual Phase Analytical Results

Sample Identification	Date	Sample Depth (feet)	TPH-GRO[1]	TPH-DRO	Benzene[2]	Toluene	Ethyl-benzene	Xylenes (total)	MTBE	Naphthalene
B24-8	09/20/17	35	41.2	1,280	<0.0500	0.136	0.0790[3]	1.089	0.284[3]	0.837
B24-9	09/20/17	40	23.9	2,360	<0.00198	0.00507	0.01820	0.1267[6]	<0.00990	0.125[6]
B24-10	09/20/17	45	910	153	<0.00184	0.00447	0.00196[3]	0.00917[3]	<0.00920	0.0338
B25-1	09/21/17	0-5	1,280	NA	0.00232[3]	0.0219	0.00837	0.0750	0.180	0.00971
B25-2	09/21/17	5-10	1,090	NA	<0.00198	<0.00198	<0.00198	0.00246[3]	0.0552	0.0521
B25-3	09/21/17	10-15	1,360	NA	<0.00196	<0.00196	<0.00196	0.00230[3]	0.109	0.00964
B25-4	09/21/17	15-20	2,230	NA	<0.00198	<0.00198	<0.00198	0.00839[3]	0.314	0.00700
B25-5	09/21/17	20-25	<2.45	NA	<0.002	0.00250[3]	<0.002	0.00243[3]	0.223	0.0374
B25-7	09/21/17	30	<2.40	NA	<0.002	<0.002	<0.002	0.00236[3]	0.0184[3]	0.0334
B25-8	09/21/17	35	<2.40	NA	<0.00198	0.00486	<0.00198	0.00747[3]	<0.00990	33.6
B25-9	09/21/17	40	<2.40	NA	<0.00198	<0.00198	<0.00198	0.00242[3]	0.0109[3]	0.0169
B25-10	09/21/17	45	<2.45	NA	<0.00198	0.00206[3]	0.00213[3]	0.01167[3]	0.0255	0.166[3]
B26-2	09/21/17	5-10	<2.45	NA	<0.00198	0.00203[3]	<0.00198	0.00242[3]	0.0222	0.00695
B26-3	09/21/17	10-15	<2.50	NA	<0.00198	0.00320[3]	<0.00198	0.00251[3]	0.0572	0.0127
B26-4	09/21/17	15-20	<2.50	NA	<0.00198	0.00642	<0.00198	0.00656[3]	0.0769	0.0243
B26-5	09/21/17	20-24.5	<2.45	NA	<0.00198	<0.00198	<0.00198	0.00234[3]	0.0726	<0.00198
B26-6	09/21/17	30	<2.50	NA	<0.00198	0.00238[3]	<0.00198	0.00248[3]	0.0143[3]	0.00647
B26-7	09/21/17	35	<2.50	NA	<0.00198	<0.00198	<0.00198	0.00224[3]	0.0124[3]	0.00742
B26-8	09/21/17	40	<2.45	NA	<0.00198	0.00331[3]	<0.00198	0.00238[3]	<0.00990	0.00619
B26-9	09/21/17	45	<2.45	NA	<0.00196	<0.00196	<0.00196	<0.00392	0.0209	<0.00196

[1]TPH-GRO and TPH-DRO analysis via U.S. EPA SW-846 method 8015; reported in milligrams per kilogram (mg/kg).
[2]BTEX, MTBE, naphthalene analysis via U.S. EPA SW-846 method 8260; reported in mg/kg.
[3]The reported result is an estimate due to the reported results being below the practical quantitation limit and equal to or above the method detection limit.
[4]NA = Not Analyzed.
[5]Soil sample also submitted for VOCSs analysis via EPA SW-846 method 8260. BTEX, MTBE, and naphthalene have been included in table. The full list of VOCs analyzed and the associated concentrations are provided on the laboratory analytical reports included with this report.
[6]The reported result is an estimate due to the reported concentration exceeding the upper calibration standard
[*]**BOLD RED** = The reported result is above the value recognized by the VA DEQ as indicating petroleum saturation.

Table 4.

Summary of Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW01	09/27/17	1,059.26	45.45	1,013.81
	10/10/17		45.67	1,013.59
MW02	09/27/17	1,058.47	44.60	1,013.87
	10/10/17		44.83	1,013.64
MW03	09/27/17	1,058.66	44.87	1,013.79
	10/10/17		45.07	1,013.59
MW04	09/27/17	1,058.94	45.22	1,013.72
	10/10/17		45.44	1,013.50
MW05	09/27/17	1,046.56	40.60	1,005.96
	10/10/17		40.93	1,005.63
MW06	09/27/17	1,053.66	41.27	1,012.39
	10/10/17		41.61	1,012.05
MW07	09/27/17	1,056.61	44.70	1,011.91
	10/10/17		45.03	1,011.58
MW08	09/27/17	1,057.72	45.57	1,012.15
	10/10/17		45.92	1,011.80
MW09	09/27/17	1,059.41	47.61	1,011.80
	10/10/17		46.88	1,012.53
MW10	09/27/17	1,058.29	46.14	1,012.15
	10/10/17		45.59	1,012.70
MW11	09/27/17	1,057.86	45.19	1,012.67
	10/10/17		45.05	1,012.81

[1]Elevations measured by Greene relative to an approximate site elevation of 479 feet.
[2]If free phase petroleum was observed, depth to groundwater was calculated using an assumed gasoline density of 0.729 g/ml

Table 5.

Summary of Free Product Thicknesses

Well Identification	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW04	09/27/17	NA[1]	45.22	0.00
	10/10/17	45.44	45.45	0.01

[1]NA = Not Applicable.

Table 6.

Summary of Calculated Purge Volumes

Well Identification	Date	Depth to Product (feet)	Depth to Water (feet)	Amount of Product (feet)	Total Well Depth (feet)	Water Column[1] (feet)	Well Diameter (inches)	Conversion Factor (gallons/feet)	Purge Volume (gallons)
MW01	09/27/17	NA	45.45	0.00	54.59	9.14	2.0	0.163	4.47
	10/10/17	NA	45.67	0.00		8.92			4.36
MW02	09/27/17	NA	44.60	0.00	55.21	10.61	2.0	0.163	5.19
	10/10/17	NA	44.83	0.00		10.38			5.08
MW03	09/27/17	NA	44.87	0.00	55.02	10.15	2.0	0.163	4.96
	10/10/17	NA	45.07	0.00		9.95			4.87
MW04	09/27/17	NA	45.22	0.00	54.96	9.74	2.0	0.163	4.76
	10/10/17	45.44	45.45	0.01		9.52			4.65
MW05	09/27/17	NA	40.60	0.00	55.22	14.62	2.0	0.163	7.15
	10/10/17	NA	40.93	0.00		14.29			6.99
MW06	09/27/17	NA	41.27	0.00	55.03	13.76	2.0	0.163	6.73
	10/10/17	NA	41.61	0.00		13.42			6.56
MW07	09/27/17	NA	44.70	0.00	54.92	10.22	2.0	0.163	5.00
	10/10/17	NA	45.03	0.00		9.89			4.84
MW08	09/27/17	NA	45.57	0.00	55.04	9.47	2.0	0.163	4.63
	10/10/17	NA	45.92	0.00		9.12			4.46
MW09	09/27/17	NA	47.61	0.00	55.27	7.66	2.0	0.163	3.75
	10/10/17	NA	46.88	0.00		8.39			4.10
MW10	09/27/17	NA	46.14	0.00	55.13	8.99	2.0	0.163	4.40
	10/10/17	NA	45.59	0.00		9.54			4.67
MW11	09/27/17	NA	45.19	0.00	55.22	10.03	2.0	0.163	4.90
	10/10/17	NA	45.05	0.00		10.17			4.97

[1]If free phase petroleum was observed, actual water column was calculated using an assumed gasoline density of 0.729 g/ml.
[2]NA = Not applicable.

Table 7.

Summary of Monitoring Well Dissolved Phase Analytical Results[1]

Sample ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Dibromochloropropane	Ethylene Dibromide	Tert-Amyl Alcohol	Tert-Amyl Ethyl Ether	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Tert-Butyl Ethyl Ether	Di-Isopropyl Ether	Ethanol	Total Lead	Dissolved Lead
MW01	10/10/17	1,620	<0.5	0.900[2]	0.820[2]	5.19	58.2	<0.5	<0.00751	2.32	<0.5	<0.5	<0.5	2,180	<0.5	4.53[2]	<100	20.3	<0.2
MW02	10/10/17	7,920	25.8	157	20.1	534.5	553	74.9	<0.394	50.7	<5.0	<5.0	<5.0	2,030	<5.0	<25.0	<1,000	220	<0.2
MW03	10/11/17	302,000	6,950	29,900[3]	3,790	18,400	7,510	999	<3.93	161	<5.0	<5.0	<5.0	8,790	<5.0	136	<1,000	333	13.9
MW04	10/11/17	356,000	18,500	53,700[3]	3,880	18,300	12,700	1,730	<3.76	656	<5.0	<5.0	<5.0	10,900	<5.0	273	<1,000	594	502
MW05	10/10/17	<250	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.00754	<496	<0.5	<0.5	<0.5	<100	<0.5	<2.5	<100	19.2	<0.2
MW06	10/10/17	<250	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.00747	<492	<0.5	<0.5	<0.5	<100	<0.5	<2.5	<100	1.96	0.553[2]
MW07	10/10/17	<250	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.00753	<495	<0.5	<0.5	<0.5	<100	<0.5	<2.5	<100	19.5	0.233[2]
MW08	10/10/17	<250	<0.5	<0.5	<0.5	<0.5	<1.0	<0.5	<0.00758	<499	<0.5	<0.5	<0.5	<100	<0.5	<2.5	<100	148	<0.2
MW09	10/11/17	8,750	293	711	150	455	3,700	78.0	<0.00744	<490	<5.0	<5.0	<5.0	3,670	<5.0	151	<1,000	35.3	3.79
MW10	10/11/17	78,800	3,860[3]	2,490	441	6,470	29,400[3]	1,060	<0.0800	9.37	<5.0	<5.0	330[3]	20,300	<5.0	449	<1,000	289	<0.2
MW11	10/10/17	16,500	2,370	1,060	425	1,998.6	15,600[3]	253	<0.00754	<496	<5.0	<5.0	121	10,900	<5.0	166	<1,000	13.4	<0.2

[1]Monitoring well samples were submitted for TPH-GRO analysis via EPA method 8015, VOCs analysis via EPA method 8260, SVOCs analysis via EPA method 8270, EDB/DBCP analysis via EPA method 8011, and total/dissolved lead analysis via EPA method 200.8; reported in micrograms per liter (µg/L). Only select analytes have been included in the table. The full list of VOCs and SVOCs analyzed and the associated concentrations are provided on the laboratory analytical reports.
[2]The reported result is an estimate. The reported concentration is less than the practical quantitation limit (PQL) but equal to or above the method detection limit (MDL).
[3]The reported result is an estimate due to the reported concentration exceeding the upper calibration standard.

Table 8.

Summary of Supply Well Dissolved Phase Analytical Results[1]

Sample ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Dibromochloropropane (DBCP)	Ethylene Dibromide (EDB)	Tert-Amyl Alcohol	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Di-Isopropyl Ether	Total Lead	Dissolved Lead	Bromodichloromethane	Sec-Butylbenzene	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dichloroethane	1,2-Dichloropropane	Isopropylbenzene	4-Methyl-2-pentanone	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	2-Butanone (MEK)	Methylene Chloride	Tertrachloroethene	Phenol	Dimethyl phthalate
DW01A	06/16/17	NA[2]	751	0.590[3]	18.9	ND[4]	604	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.57	0.640[3]	4.98	16.1	5.76	1.31	1.34	80.0	2.01	4.86	26.1	4.15	ND	ND	ND	ND	ND	ND	NA	NA
	06/26/17[5]	NA	749	ND	56.4	540	797	44.7	ND	0.400	2,320	ND	388	52.4	NA	NA	ND	NA	ND	12.5[6]	NA	NA	ND	83.3	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	10/11/17	7,020	1,070	2.02	68.6	725.2	603	18.5	ND	ND	ND	ND	ND	58.2	5.68	0.285[3]	ND	2.04	ND	7.01	ND	ND	ND	ND	2.20	12.6	ND	13.1	272	90.1	1.08	ND	ND	ND	7.86[3]	ND
	11/13/17[5]	NA	724	ND	59.3	630	751	42.4	ND	ND	2,270	ND	440	48.3	NA	NA	ND	NA	ND	10.0[6]	NA	NA	ND	72.1	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
DW02A	06/05/17[7]	994	2.91	ND	ND	ND	138	ND	ND	ND	ND	ND	ND	8.55	NA	NA	ND	ND	ND	ND	ND	ND	ND	23.1	ND	ND	ND	ND	9.04	ND	ND	ND	ND	ND	NA	NA
	10/06/17[5]	NA	3.0	ND	ND	1.1[6]	176	ND	ND	ND	544	0.8[6]	113	10.4	NA	NA	ND	NA	ND	ND	NA	NA	ND	29.4	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	10/10/17	ND	3.11	ND	ND	0.760[3]	170	ND	ND	ND	ND	ND	ND	13.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.01	ND	ND	ND	14.8	ND	ND	ND	ND	ND	ND	ND
DW03A	06/16/17	NA	ND	ND	ND	ND	10.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	0.930[3]	ND	ND	ND	1.37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/28/17[5]	NA	ND	ND	ND	ND	19.7	ND	ND	ND	ND	ND	ND	2.0[6]	NA	NA	ND	NA	ND	0.8[6]	NA	NA	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	09/11/17[5]	NA	ND	ND	ND	ND	87.4	ND	ND	ND	118	ND	22.4	8.1	NA	NA	ND	NA	ND	0.7[6]	NA	NA	ND	5.6	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	10/10/17	ND	ND	ND	ND	ND	36.8	ND	ND	ND	ND	ND	ND	4.06[3]	13.2	0.649[3]	ND	ND	ND	0.530[3]	ND	ND	ND	ND	ND	ND	ND	ND	2.92	1.01	ND	ND	ND	ND	ND	ND
	12/15/17[5]	NA	ND	ND	ND	ND	17.4	ND	ND	ND	22.1	ND	ND	1.4[6]	NA	NA	ND	NA	ND	0.8[6]	NA	NA	ND	0.7[6]	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
DW03B	09/18/17	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA

Table 8 (Cont'd).

Summary of Supply Well Dissolved Phase Analytical Results[1]

Sample ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Dibromochloropropane (DBCP)	Ethylene Dibromide (EDB)	Tert-Amyl Alcohol	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Di-Isopropyl Ether	Total Lead	Dissolved Lead	Bromodichloromethane	Sec-Butylbenzene	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dichloroethane	1,2-Dichloropropane	Isopropylbenzene	4-Methyl-2-pentanone	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	2-Butanone (MEK)	Methylene Chloride	Tertrachloroethene	Phenol	Dimethyl phthalate
DW04A	06/16/17	NA	3.56	ND	ND	ND	10.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	2.85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	07/06/17[5]	NA	3.0	ND	ND	ND	13.5	ND	ND	ND	68.8	ND	ND	1.6[6]	NA	NA	ND	NA	ND	ND	NA	NA	ND	2.7	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	10/06/17[5]	NA	2.9	ND	ND	ND	13.1	ND	ND	ND	57.7	ND	ND	1.7[6]	NA	NA	ND	NA	ND	ND	NA	NA	ND	2.5	ND	NA	ND	NA	NA	NA	NA	10.3	ND	ND	NA	NA
	10/10/17	ND	3.56	ND	ND	ND	15.3	ND	ND	ND	ND	ND	ND	ND	0.515[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW04B	11/28/17	ND	ND	ND	ND	ND	1.48[3]	0.950[3]	ND	ND	ND	ND	ND	ND	79.5	ND	ND	ND	ND	34.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.99	ND	ND	ND
DW05A	06/20/17	NA	ND	ND	ND	ND	1.61[3]	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/27/17[5]	NA	ND	ND	ND	ND	1.9[6]	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	10/11/17[5]	NA	ND	ND	ND	ND	1.9[6]	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	10/11/17	ND	ND	ND	ND	ND	4.77[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW06B	06/20/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/10/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.72	3.69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW06C	10/10/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.0	0.423[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 8 (Cont'd).

Summary of Supply Well Dissolved Phase Analytical Results[1]

Sample ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Dibromochloropropane (DBCP)	Ethylene Dibromide (EDB)	Tert-Amyl Alcohol	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Di-Isopropyl Ether	Total Lead	Dissolved Lead	Bromodichloromethane	Sec-Butylbenzene	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dichloroethane	1,2-Dichloropropane	Isopropylbenzene	4-Methyl-2-pentanone	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	2-Butanone (MEK)	Methylene Chloride	Tertrachloroethene	Phenol	Dimethyl phthalate
DW07A	06/20/17	NA	ND	ND	ND	ND	2.33[3]	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/28/17[5]	NA	ND	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	ND	ND	NA	NA	ND	ND	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
	10/10/17	ND	ND	ND	ND	ND	5.40	ND	ND	ND	ND	ND	ND	ND	5.06	0.513[3]	ND	ND	ND	ND	ND	ND	ND	0.6[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/11/17[5]	NA	ND	ND	ND	ND	3.8	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	ND	ND	NA	NA	ND	0.8[6]	ND	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA	NA
DW08A	07/03/17	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	77.8	4.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW08B	07/03/17	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66.6	10.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.32	ND	ND
DW09A	06/16/17	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/20/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/10/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.407[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW09B	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 8 (Cont'd).

Summary of Supply Well Dissolved Phase Analytical Results[1]

Sample ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Dibromochloropropane (DBCP)	Ethylene Dibromide (EDB)	Tert-Amyl Alcohol	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Di-Isopropyl Ether	Total Lead	Dissolved Lead	Bromodichloromethane	Sec-Butylbenzene	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dichloroethane	1,2-Dichloropropane	Isopropylbenzene	4-Methyl-2-pentanone	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	2-Butanone (MEK)	Methylene Chloride	Tertrachloroethene	Phenol	Dimethyl phthalate
DW10A	10/02/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW11A	06/20/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.30	0.471[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW12A	06/20/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.29	0.703[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW13A	11/01/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW13B	11/28/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.29[3]
DW14A	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	113	14.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW15A	10/02/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.18	1.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.30[3]	ND

Table 8 (Cont'd).

Summary of Supply Well Dissolved Phase Analytical Results[1]

Sample ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Dibromochloropropane (DBCP)	Ethylene Dibromide (EDB)	Tert-Amyl Alcohol	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Di-Isopropyl Ether	Total Lead	Dissolved Lead	Bromodichloromethane	Sec-Butylbenzene	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dichloroethane	1,2-Dichloropropane	Isopropylbenzene	4-Methyl-2-pentanone	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	2-Butanone (MEK)	Methylene Chloride	Tertrachloroethene	Phenol	Dimethyl phthalate
DW16A	10/10/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.638[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW17A	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	46.3	0.529[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW17B	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW18A	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.753[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW19A	06/16/17	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/28/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
DW31A	06/16/17	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/28/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
DW32A	06/16/17	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/28/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA

Table 8 (Cont'd).

Summary of Supply Well Dissolved Phase Analytical Results[1]

Sample ID	Date	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Dibromochloropropane (DBCP)	Ethylene Dibromide (EDB)	Tert-Amyl Alcohol	Tert-Amyl Methyl Ether	Tert-Butyl Alcohol	Di-Isopropyl Ether	Total Lead	Dissolved Lead	Bromodichloromethane	Sec-Butylbenzene	Chlorobenzene	Chloroform	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dichloroethane	1,2-Dichloropropane	Isopropylbenzene	4-Methyl-2-pentanone	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	2-Butanone (MEK)	Methylene Chloride	Tertrachloroethene	Phenol	Dimethyl phthalate
DW33A	06/16/17	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	06/28/17	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.78	0.345[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW40A	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.758[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DW41A	10/11/17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00	0.628[3]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

[1]Supply well samples were submitted for TPH-GRO analysis via EPA method 8015, VOCs analysis via EPA method 8021/8260, SVOCs analysis via EPA method 8270, EDB/DBCP analysis via EPA method 8011/504.1, and total/dissolved lead analysis via EPA method 200.8; reported in micrograms per liter (µg/L). Only select analytes have been included in the table. The full list of VOCs and SVOCs analyzed and the associated concentrations are provided on the laboratory analytical reports.
[2]NA = Not Analyzed.
[3]The reported result is an estimate due to the reported results being below the practical quantitation limit (PQL) and equal to or above the method detection limit (MDL).
[4]ND = Non Detected.
[5]Sampling performed by VA DEQ AWS contractor.
[6]The reported result is an estimate due to the reported results being below the reporting limit and equal to or above the quantitation limit.
[7]Sampling performed by VA DEQ State Lead contractor.

Table 9.

Summary of Supply Well Discrete Sampling Dissolved Phase Analytical Results[1]

Sample ID	Date	Depth (feet)	Benzene	Toluene	Ethylbenzene	Xylenes (total)	MTBE	Naphthalene	Di-Isopropyl Ether	Sec-Butylbenzene	Acetone	Chloroform	1,2-Dichloroethane	1,2-Dichloropropane	Isopropylbenzene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	2-Butanone (MEK)	1,2-Dibromoethane (EDB)
DW01A	11/29/17	88	36.4	ND[2]	11.8	270	209	30.3	26.6	0.540[3]	ND	6.58	10.1	ND	2.16	2.07	88.8	24.4	1.78	ND	ND
		108	95.7	0.610[3]	20.4	289	217	34.6	26.4	0.670[3]	ND	5.82	16.4	0.510[3]	3.35	2.96	106	28.5	1.88	ND	ND
		143	549	2.03	55.5	408	528	54.9	50.4	1.63	ND	7.44	ND	1.74	9.75	9.46	220	59.9	3.76	ND	ND
		159	538	2.16	57.3	398	637	55.1	53.2	1.60	ND	8.03	ND	1.84	9.79	9.18	216	59.4	3.53	ND	ND
		179	725	2.80	66.6	429	671	57.4	63.0	1.97	ND	8.05	ND	2.33	12.0	11.6	242	66.4	4.19	ND	ND
		211	774	2.95	54.3	366	719	45.0	61.9	1.29	ND	7.76	ND	2.30	8.69	7.70	175	47.3	2.73	ND	ND
		256	775	3.24	58.3	393	765	47.1	64.3	1.65	ND	7.60	ND	2.35	10.4	9.75	196	52.6	3.48	ND	0.6[3]
DW04A	11/28/17	86	2.07	0.660[3]	ND	ND	16.2	1.01	6.63	ND	1,120	ND	2.34	ND	ND	ND	ND	ND	ND	1,050	ND
		105	2.72	0.600[3]	ND	ND	18.9	1.08	6.92	ND	300	ND	2.57	ND	ND	ND	ND	ND	ND	334	ND
		134	4.79	ND	ND	ND	21.9	1.14	7.48	ND	ND	ND	3.61	ND	ND	ND	ND	ND	ND	51.2	ND
		147	3.89	0.640[3]	ND	ND	19.8	1.43	7.18	ND	ND	ND	3.09	ND	ND	ND	ND	ND	ND	55.3	ND
		162	3.97	0.600[3]	ND	ND	18.8	ND	7.40	ND	ND	ND	3.16	ND	ND	ND	ND	ND	ND	33.6	ND

[1]Supply well samples were submitted for VOCs analysis via EPA method 8260; reported in micrograms per liter (µg/L).
[2]ND = Non Detected.
[3]The reported result is an estimate due to the reported results being below the practical quantitation limit (PQL) and equal to or above the method detection limit (MDL).

Table 10.

Summary of Surface Water Dissolved Phase Analytical Results

Sample ID	Sample Date	TPH-GRO[1] (µg/L)	VOCs[2] (µg/L)	EDB/DBCP[3] (µg/L)
POND01 (Pond)	09/18/17	ND[4]	ND for all analyzed VOCs via 8260	ND for EDB and DBCP via 8011
POND02 (Pond Outfall)	09/18/17	ND	ND for all analyzed VOCs via 8260	ND for EDB and DBCP via 8011
ST01 (Intermittent Tributary)	09/18/17	ND	Toluene = 6.20[5] ND for all other analyzed VOCs via 8260	ND for EDB and DBCP via 8011

[1]TPH-GRO analysis via U.S. EPA SW-846 method 8015; reported in micrograms per liter (µg/L).
[2]VOCs analysis via U.S. EPA SW-846 method 8260; reported in µg/L.
[3]EDB/DBCP analysis via U.S. EPA SW-846 method 8011; reported in µg/L.
[4]ND = Non Detected at laboratory method detection limits.
[5]The reported result is an estimate. The concentration is less than the practical quantitation limit (PQL) but equal to or above the method detection limit (MDL).

Table 11.

Description of Observed Supply Well Analytes

Analyte	MCL[1] (µg/L)	VA DEQ RML[2] (µg/L)	Analyte Uses
Benzene	5	0.39	Multiple industrial uses. Benzene is a component of motor fuels.
Toluene	1,000	86	Multiple industrial uses. Toluene is added to gasoline to improve octane ratings and is utilized in the production of benzene.
Ethylbenzene	700	1.3	Multiple industrial uses. Ethylbenzene is a component of motor fuels.
Xylenes	10,000	19	Multiple industrial uses. Xylenes are utilized in the production of ethylbenzene and are blended into gasoline
MTBE	NA[3]	12	MTBE is primarily utilized as a fuel additive in gasoline to improve octane ratings.
Naphthalene	NA	0.14	Multiple industrial uses. Naphthalene is a component of motor fuels.
Ethylene Dibromide (EDB)	0.05	0.0065	EDB was formerly utilized as an additive to leaded gasoline
1,2-Dichloroethane	5	0.15	Multiple industrial uses. 1,2-Dichloroethane was formerly added to leaded gasoline as a lead scavenger.
Isopropyl Ether (DIPE)	NA	150	DIPE is a fuel oxygenate utilized to improve octane ratings.

Table 11 (Cont'd).

Description of Observed Supply Well Analytes

Analyte	MCL[1] (µg/L)	VA DEQ RML[2] (µg/L)	Analyte Uses
Tert-Amyl Alcohol (TAA)	NA	10	TAA is a fuel oxygenate utilized to improve octane ratings.
Tert-Butanol (TBA)	NA	10	TBA is a fuel oxygenate utilized to improve octane ratings.
Tert-Amyl Methyl Ether (TAME)	NA	12	TAME is a fuel oxygenate utilized to improve octane ratings.
Lead	15[4]	NA	Lead is a naturally occurring element formerly and/or currently utilized in leaded gasoline, paint, ceramics, pipes, fixtures, solder, etc. Lead is generally observed in tap water due to the corrosion of plumbing fixtures, piping, and/or solder.
Bromodichloromethane	80	NA	Bromodichloromethane is not typically associated with petroleum products and its presence is likely a byproduct of the reaction of chlorine with naturally occurring organic compounds.
sec-Butylbenzene	NA	NA	Volatile organic compound with multiple industrial uses.
Chlorobenzene	100	NA	Multiple industrial uses. Chlorobenzene is primarily utilized as a solvent for pesticides and degreasing automobile parts.
Chloroform	80	NA	Chloroform is not typically associated with petroleum products and its presence is likely a byproduct of the reaction of chlorine with naturally occurring organic compounds.
2-Chlorotoluene	NA	NA	2-Chlorotoluene is primarily utilized as a solvent in multiple industrial products.
4-Chlorotoluene	NA	NA	4-Chlorotoluene is primarily utilized as a solvent in multiple industrial products.
Dibromochloromethane	80	NA	Dibromochloromethane is not typically associated with petroleum products and its presence is likely a byproduct of the reaction of chlorine with naturally occurring organic compounds.
1,2-Dichloropropane	5	NA	Multiple industrial uses. Primarily utilized as an industrial solvent.
Isopropylbenzene	NA	NA	Primarily utilized as a paint thinner. Isopropylbenzene is a component of high octane fuels.
4-Methyl-2-pentanone	NA	NA	Primarily utilized as a solvent in industrial products.
n-Propylbenzene	NA	NA	Multiple industrial uses. n-Propylbenzene is a component of petroleum and coal.
1,2,4-Trimethylbenzene	NA	NA	Multiple industrial uses. 1,2,4-Trimethylbenzene is a component of petroleum and coal.

Table 11 (Cont'd).

Description of Observed Supply Well Analytes

Analyte	MCL[1] (µg/L)	VA DEQ RML[2] (µg/L)	Analyte Uses
1,3,5-Trimethylbenzene	NA	NA	Multiple industrial uses. 1,3,5-Trimethylbenzene is a volatile chemical in gasoline and utilized as a solvent.
4-Isopropyltoluene	NA	NA	4-Isopropyltoluene is a naturally occurring aromatic organic compound classified as a hydrocarbon.
2-Butanone (MEK)	NA	490	2-Butanone (MEK) is primarily utilized as a solvent and is also a component of PVC glue.
Methylene Chloride	5	NA	Multiple industrial uses. Methylene chloride is primarily utilized as a solvent.
Tetrachlroethene	5	NA	Tetrachloroethene (also known as tetrachloroethylene or perchloroethylene) is primarily utilized as a solvent for dry cleaning, metal degreasing, and textile processing.
Dimethyl Phthalate	NA	NA	Dimethyl phthalate is primarily utilized in the production of plastics, insect repellants, and pesticides.
Phenol	NA	NA	Phenol is primarily utilized in the production of plastics, insect repellants, and pesticides.

[1]MCL (EPA Maximum Contaminant Level) = Enforceable federal standard denoting the highest level of a contaminant allowed in drinking water.
[2]Virginia Department of Environmental Quality Risk Management Level.
[3]NA = Not Applicable.
[4]Lead maintains an EPA action level of 15 µg/L where public water systems must take actions if more than 10% of tap water samples exceed action level.

Table 12.

Summary of the Receptor Survey Results

Property ID	Name/Address[1]	Receptor ID	Location From Gasoline UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
P01	Chamblissburg Supply (dba Elei's) 10625 Stewartsville Road Stewartsville – Chamblissburg Volunteer Fire Department Station 2	DW01A	~135 feet East	The property maintains the Chamblissburg Supply (dba Elei's) and the Stewartsville – Chamblissburg Volunteer Fire Department. One supply well (DW01A) is known to be located on the property. DW01A is a drilled supply well installed to approximately 292 feet bgs with 6-inch steel casing installed to approximately 87.75 feet bgs. The well pump is hung on 1.25-inch threaded PVC piping approximately 260 feet bgs. DW01A has been impacted with petroleum and a carbon filtration system has reportedly been installed as part of the VA DEQ AWS program.
P02	Farkas Residence 10590 Stewartsville Road	DW02A	~235 feet Southeast	Supply well DW02A provides potable water to a residence located on the property. DW02A is a drilled well installed to approximately 261 feet bgs with 6-inch PVC casing installed to approximately 88.50 feet bgs. The well pump is hung on 1-inch HDPE piping approximately 205 feet bgs. DW02A has been impacted with petroleum and a carbon filtration system has reportedly been installed as part of the VA DEQ AWS program. No additional construction details are known.
		DW02B	Unknown	Supply well DW02B is a reportedly out of use bored/hand dug supply well. The exact location and any construction details are unknown and the well may have been closed/abandoned.
P03	Dudley Property 10605 Stewartsville Road	DW03A	~170 feet East-Southeast	Supply well DW03A provides potable water to the onsite residential rental property. DW03A is a drilled supply well installed to approximately 197.5 feet bgs with 6-inch steel casing installed to approximately 99 feet bgs. The well pump is hung on 1-inch HDPE piping approximately 165 feet bgs. DW03A has been impacted with petroleum and a carbon filtration system has reportedly been installed as part of the VA DEQ AWS program. No additional construction details are known.
		DW03B	~140 feet East-Southeast	DW03B is an out of use hand dug well located beneath onsite carport. Groundwater sampling yielded Non Detected for petroleum contamination.
P04	Houck Residence 10555 Stewartsville Road	DW04A	~525 feet East-Southeast	Supply well DW04A provides potable water to the onsite residence. DW04A is a drilled supply well installed to approximately 165 feet bgs with 6-inch steel casing installed to approximately 87 feet bgs. The well pump is hung on 1-inch HDPE piping approximately 150 feet bgs. DW04A has been impacted with petroleum and a carbon filtration system has reportedly been installed as part of the VA DEQ AWS program. No additional construction details are known.
		DW04B	~480 feet East-Southeast	DW04B is an out of use drilled supply well installed to approximately 82 feet bgs with 5-inch steel casing installed to approximately 69 feet bgs. The well pump is hung on 1-inch HDPE piping approximately 75 feed bgs. Groundwater sampling yielded chemicals typically associated with petroleum contamination.

Table 12 (Cont'd).

Summary of the Receptor Survey Results

Property ID	Name/Address[1]	Receptor ID	Location From Gasoline UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
P05	Thomas Residence 10465 Stewartsville Road	DW05A	~840 feet Southeast	Supply well DW05A provides potable water to the onsite residence. DW05A is a drilled supply well installed in 1971 by Richard Simmons Well Drilling. DW05A is approximately 180 feet deep and is installed with steel casing. DW05A has been impacted with petroleum and a carbon filtration system has reportedly been installed as part of the VA DEQ AWS program. No additional construction details are known.
P06	Franklin Residence 10431 Stewartsville Road	DW06B	~1,000 feet Southeast	Supply well DW06B is a bored well, which is connected only to the outside spigots of the onsite residence. No additional construction details are known. Analytical results of a water sample collected from DW06B yielded Non Detected for petroleum contamination.
		DW06C	~1,020 feet Southeast	Supply well DW06C is reportedly an out of use drilled well. No additional construction details are known. Analytical results of a water sample collected from DW06C yielded Non Detected for petroleum contamination.
P07	Scott Residence 10433 Stewartsville Road	DW07A	~990 feet East-Southeast	Supply well DW07A is a drilled well, which provides potable water to the onsite residence and the offsite residence (P06). DW07A has been impacted with petroleum and a carbon filtration system has been installed at P06 as part of the VA DEQ AWS programs. At the owner's request an AWS treatment system has not been installed at P07. No additional construction details are known.
P08	Kidd Residence 10375 Stewartsville Road	DW08A	~1,330 feet Southeast	Supply well DW08A provides potable water to the onsite residence. DW08A is a drilled supply well reportedly installed to approximately 300 feet. No additional construction details are known. Analytical results of water samples collected from DW08A yielded Non Detected for petroleum contamination.
		DW08B	~1,330 feet Southeast	Supply well DW08B also provides potable water to the onsite residence. DW08B is a bored supply well reportedly installed to approximately 60 feet. No additional construction details are known. Analytical results of water samples collected from DW08B yielded Non Detected for petroleum contamination.
P09	Brillhart Property 10570 Stewartsville Road	DW09A	~460 feet Southeast	Supply well DW09A provides potable water to the onsite residence. DW09A is a drilled supply well reportedly installed in 2001 to approximately 260 feet. No additional construction details are known. Analytical results of water samples collected from DW09A yielded Non Detected for petroleum contamination.
		DW09B	~460 feet Southeast	Supply well DW09B is reportedly an out of use hand dug well. No additional construction details are known. Analytical results of a water sample collected from DW09B yielded Non Detected for petroleum contamination.

Table 12 (Cont'd).

Summary of the Receptor Survey Results

Property ID	Name/Address[1]	Receptor ID	Location From Gasoline UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
P10	Wilson Residence 1020 Cannon Lane	DW10A	~565 feet Southeast	Supply well DW10A provides potable water to the onsite residence and three rental properties located on the property. DW10A is a drilled supply well reportedly installed to approximately 185 feet bgs. No additional construction details are known. Analytical results of a water sample collected from DW10A yielded Non Detected for petroleum contamination.
	Wilson Property 1060 Cannon Lane			
	Wilson Property 1090 Cannon Lane			
	Wilson Property 1130 Cannon Lane			
P11	Bolden Residence 10520 Stewartsville Road	DW11A	~690 feet Southeast	Supply well DW11A provides potable water to the onsite residence. DW11A is a reportedly drilled supply. No additional construction details are known. Analytical results of water samples collected from DW11A yielded Non Detected for petroleum contamination.
P12	Simmons Property 10480 Stewartsville Road	DW12A	~835 feet Southeast	Supply well DW12A provides potable water to the two onsite residences. The top of casing for DW12A is buried and as a result, the exact location is unknown. No additional construction details are known. Analytical results of water samples collected from DW12A yielded Non Detected for petroleum contamination.
	Simmons Property 1055 Castle Lane			
P13	Cottle Residence 1075 Castle Lane	DW13A	~1,025 feet Southeast	Supply well DW13A provides potable water to the onsite residence. The top of casing for DW13A is buried and as a result, the exact location is unknown. No additional construction details are known. Analytical results of a water sample collected from DW13A yielded Non Detected for petroleum contamination.
		DW13B	~1,025 feet Southeast	DW13B is an out of use bored well installed to approximately 39 feet bgs. Analytical results of a water sample collected from DW13B yielded Non Detected for petroleum contamination.
P14	Ellis Residence 1030 Castle Lane	DW14A	~905 feet Southeast	Supply well DW14A provides potable water to the onsite residence. DW14A is reportedly a drilled well installed to approximately 100 feet. No additional construction details are known. Analytical results of a water sample collected from DW14A yielded Non Detected for petroleum contamination.
P15	LeDoux Residence 1080 Castle Lane	DW15A	~1,055 feet Southeast	Supply well DW15A provides potable water to the onsite residence. Construction details and the exact location of supply well DW15A are unknown. Analytical results of a water sample collected from DW15A yielded Non Detected for petroleum contamination.
P16	Palmer Residence 10440 Stewartsville Road	DW16A	~1,005 feet Southeast	Supply well DW16A provides potable water to the onsite residence. DW16A is reportedly a drilled well, however, no additional construction details are known. Analytical results of a water sample collected from DW16A yielded Non Detected for petroleum contamination.

Table 12 (Cont'd).

Summary of the Receptor Survey Results

Property ID	Name/Address[1]	Receptor ID	Location From Gasoline UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
P17	Hicks Residence 10420 Stewartsville Road	DW17A	~1,180 feet Southeast	Supply well DW17A provides potable water to the onsite residence. DW17A is a drilled well, however, no additional construction details are known. Analytical results of a water sample collected from DW17A yielded Non Detected for petroleum contamination.
		DW17B	~1,232 feet Southeast	DW17B is an out of use bored well installed to approximately 31 feet bgs. Analytical results of a water sample collected from DW17B yielded Non Detected for petroleum contamination.
P18	Lozano Residence 10340 Stewartsville Road	DW18A	~1,490 feet Southeast	Supply well DW18A provides potable water to the onsite residence. DW18A is a drilled supply well with PVC casing. No additional construction details are known. Analytical results of a water sample collected from DW18A yielded Non Detected for petroleum contamination.
P19	Beaverdam Baptist Church 10665 Stewartsville Road	DW19A	~315 feet Northwest	Supply well DW19A provides potable water to the Beaverdam Baptist Church. DW19A is a drilled well installed in approximately 2010 to greater than 200 feet. No additional construction details are known. Analytical results of water samples collected from DW19A yielded Non Detected for petroleum contamination.
	Beaverdam Baptist Church - Parsonage 10729 Stewartsville Road	DW19B	Unknown	Supply well DW19B provides potable water to the parsonage. The parsonage is vacant and the water has reportedly been turned off. No construction details are known.
P20	Dudley Property Undeveloped – No Address	Pond-01	~930 feet Northeast	The property is an undeveloped property owned by the Estate of Lacy Dudley. The property reportedly does not maintain any supply wells; however an unnamed intermittent tributary draining to a pond is located on the property. The pond appears to drain to the East Fork of Beaverdam Creek. Analytical results of water samples collected from the pond yielded Non Detected for petroleum contamination; however, analytical results of a water samples collected from the intermittent tributary yielded limited petroleum contamination.
		Intermittent Tributary	~700 feet Northeast	
P21	Thomas Residence 10765 Stewartsville Road	DW21A	~620 feet Northwest	Supply well DW21A provides potable water to the onsite residence. DW21A is a drilled well installed in 1984 to approximately 230 feet. No additional construction details are known.
P22	Unknown Residence 10739 Stewartsville Road	Unknown	Unknown	Property P22 maintains one residential property. Information regarding the onsite water supply is unknown. A letter was left at the residence during the receptor survey. No obvious supply well was observed.
P23	Cunningham Residence 10769 Stewartsville Road	DW23A	~800 feet Northwest	Supply well DW23A provides potable water to the onsite residence. DW23A is a drilled well reportedly installed between 1984 and 1993 with PVC casing. No additional construction details are known.
P24	Agricultural Property Undeveloped – No Address	NA[2]	NA	The property is an agricultural property reportedly owned by Eugene Blount. The property reportedly does not maintain any supply wells.

Table 12 (Cont'd).

Summary of the Receptor Survey Results

Property ID	Name/Address[1]	Receptor ID	Location From Gasoline UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
P25	Rental Property 10825 Stewartsville Road	DW25A	Unknown	Supply well DW25A provides potable water to the onsite residence addressed as 10825 Stewartsville Road. No information regarding the supply well construction or location is known.
	Rental Property 10827 Stewartsville Road	DW25B	Unknown	Supply well DW25B provides potable water to the onsite residence addressed as 10827 Stewartsville Road. No information regarding the supply well construction or location is known.
P26	St Clair Residence 10840 Stewartsville Road	DW26A	~1,120 feet West	Supply well DW26A provides potable water to the onsite residence. DW26A is a drilled supply well installed in May 2011 to approximately 260 feet. Ty Davidson Well Drilling, Inc. plate on the well cover. Installed this well due to DW26B staining clothes after a rainfall event.
		DW26B	~1,130 feet West	Supply well DW26B is an out of use drilled well installed to approximately 70 feet.
P27	Townsend Residence 10806 Stewartsville Road	DW27A	~970 feet West	Supply well DW27A provides potable water to the onsite residence. DW27A is a drilled supply well installed in 2005 to approximately 205 feet.
P28	Blount Residence 10780 Stewartsville Road	DW28A	~720 feet Northwest	Supply well DW28A provides potable water to the onsite residence and the offsite residence addressed as 10770 Stewartsville Road (P29). DW28A is reportedly a drilled supply well installed in 2012. No additional construction details are known.
P29	Blount Property 10770 Stewartsville Road	NA	NA	The residence located at P29 obtains potable water from supply well DW28A located at 10780 Stewartsville Road.
P30	Unknown Residence 10690 Stewartsville Road	Unknown	Unknown	Property P30 maintains one residential property. Information regarding the onsite water supply is unknown. A letter was left at the residence during the receptor survey.
P31	Whorley Residence 10688 Stewartsville Road	DW31A	~350 feet West	Supply well DW31A provides potable water to the onsite residence. DW31A is a drilled supply well with PVC casing. No additional construction details are known. Analytical results of water samples collected from DW31A yielded Non Detected for petroleum contamination.
P32	Booze Residence 10684 Stewartsville Road	DW32A	~280 feet West	Supply well DW32A provides potable water to the onsite residence. DW32A is reportedly a drilled supply installed in the 1970s. No additional construction details are known. Analytical results of water samples collected from DW32A yielded Non Detected for petroleum contamination.

Table 12 (Cont'd).

Summary of the Receptor Survey Results

Property ID	Name/Address[1]	Receptor ID	Location From Gasoline UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
P33	Cardwell Residence 10640 Stewartsville Road	DW33A	~175 feet Southwest	Supply well DW33A provides potable water to the onsite residence. DW33A is a drilled supply installed in with PVC casing. No additional construction details are known. Analytical results of water samples collected from DW33A yielded Non Detected for petroleum contamination.
		DW33B	~175 feet Southwest	Supply well DW33B is an out of use drilled well located on the P33 property. Due to the pump not functioning a groundwater sample has not been collected from DW33B.
P34	Undeveloped Property No Known Address	NA	NA	The property is an undeveloped property reportedly owned by Angela Cardwell. The property reportedly does not maintain any supply wells.
P35	Wilkes Residence 1222 Catfish Court	DW35A	~1,300 feet Southwest	Supply well DW35A provides potable water to the onsite residence. DW35A is a drilled supply well installed in 1975 to approximately 155 feet.
P36	Unknown Residence 1224 Catfish Court	Unknown	Unknown	Property P36 maintains one residential property. The residence appeared vacant and the property is for sale. Information regarding the onsite water supply is unknown. No obvious supply well was observed.
P37	Petrie Residence 1221 Catfish Court	DW37A	~1,400 feet Southwest	Supply well DW37A provides potable water to the onsite residence. DW37A is a drilled supply well installed in 1975 to approximately 125 feet.
P38	Undeveloped Property No Known Address	Pond-02	~1,925 feet South-Southwest	The property is an undeveloped property reportedly owned by Steven Brillhart. The property reportedly does not maintain any supply wells. One pond (Pond-02) was observed on the property.
P39	Undeveloped Property No Known Address	DW39A	~1,645 feet South-Southeast	The property appears to be an undeveloped property. However, a drilled supply well, DW39A, is a drilled well installed on the property. No additional construction details are known.
		Pond-03	~1,565 feet South-Southeast	Pond-03 appears to be a drainage pond located on the property. No additional details are known.
P40	Simmons Residence 10247 Stewartsville Road	DW40A	~1,770 feet East-Southeast	Supply well DW40A provides potable water to the two onsite residences. DW40A is reportedly a drilled supply installed in with PVC casing. No additional construction details are known. Analytical results of a water sample collected from DW40A yielded Non Detected for petroleum contamination.
	Simmons Property 10249 Stewartsville Road			
P41	Simmons Property 10245 Stewartsville Road	DW41A	~1,865 feet Southeast	Supply well DW41A provides potable water to the two onsite residences. DW41A is reportedly a drilled supply. No additional construction details are known. Analytical results of a water sample collected from DW41A yielded Non Detected for petroleum contamination.
	Simmons Property 10265 Stewartsville Road			

[1]Addresses are located in Vinton, VA 24179.
[2]NA = Not applicable.

Table 13. In Situ Air Sparging with Soil Vapor Extraction[1]	
Advantages	• reduction in VOC vapors below water bearing horizon • enhance vapor extraction and downgradient pumping effectiveness
Limitations	• effectiveness is limited in low permeability or heterogeneous media • removal of primarily volatile constituents • ability to facilitate vapor- and adsorbed-phase migration • maintenance of air distribution in groundwater; availability of performance data is limited
Cleanup Levels & Timing[2]	• generally, achieves maximum contaminant levels for VOCs • notable reduction in contaminant mass in ~6 months to 1 year [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • notable reduction in contaminant mass in ~6 months to 2 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface]
Costs[3]	• ~$100,000 to $300,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~$200,000 to $330,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface]

[1]Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510 F-93-029, October 1993.
[2]Site specific cleanup standards are determined by the state regulatory agency.
[3]Costs include necessary equipment and system operation and maintenance for the timeframe specified; adjusted to reflect 2015 pricing.

Table 14. Groundwater Pump & Treat Systems[1]	
Advantages	• reduction in contaminant concentrations and maintenance of areal extent of plume(s)
Limitations	• effectiveness is limited in aquifers with low permeability potential • may require extensive duration periods to achieve maximum efficiency • groundwater with a high iron content may affect treatment quality • monitoring of water table fluctuations throughout system operation
Cleanup Levels & Timing[2]	• ~1 to 3 years [assuming no delays in corrective action and a relatively homogenous, permeable subsurface, and minimal source contaminants] • ~2 to 5 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface, and generous source contaminants]
Costs[3]	• ~$250,000 to $330,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface, and minimal source contaminants] • ~$410,000 to $500,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface, and generous source contaminants]

[1]Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510-F-93-029, October 1993.
[2]Site specific cleanup standards are determined by the state regulatory agency.
[3]Costs include necessary equipment and system operation and maintenance for the timeframe specified; adjusted to reflect 2015 pricing.

Table 15. In Situ Bioremediation[1]	
Advantages	• in-place degradation of contaminants • achieves lower concentrations than pump & treat
Limitations	• effectiveness is limited in low permeability or heterogeneous media • ability to transport nutrients and oxygen may be limited by soil and groundwater mineral content or pH • targets biodegradable constituents only
Cleanup Levels & Timing[2]	• generally, achieves maximum contaminant levels • achieves > or = 90% reduction of biodegradable constituents • ~90% reduction in 6 months to 1 year [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~90% reduction in 6 months to 4 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface] • additional system operation time required for hydrocarbons maintaining a composition with a greater density
Costs[3]	• ~$250,000 to $410,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~$330,000 to $820,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface]

[1]Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510-F-93-029, October 1993.
[2]Site specific Acleanup standards@ are determined by the state regulatory agency.
[3]Costs include necessary equipment and system operation and maintenance for the timeframe specified; adjusted to reflect 2015 pricing.

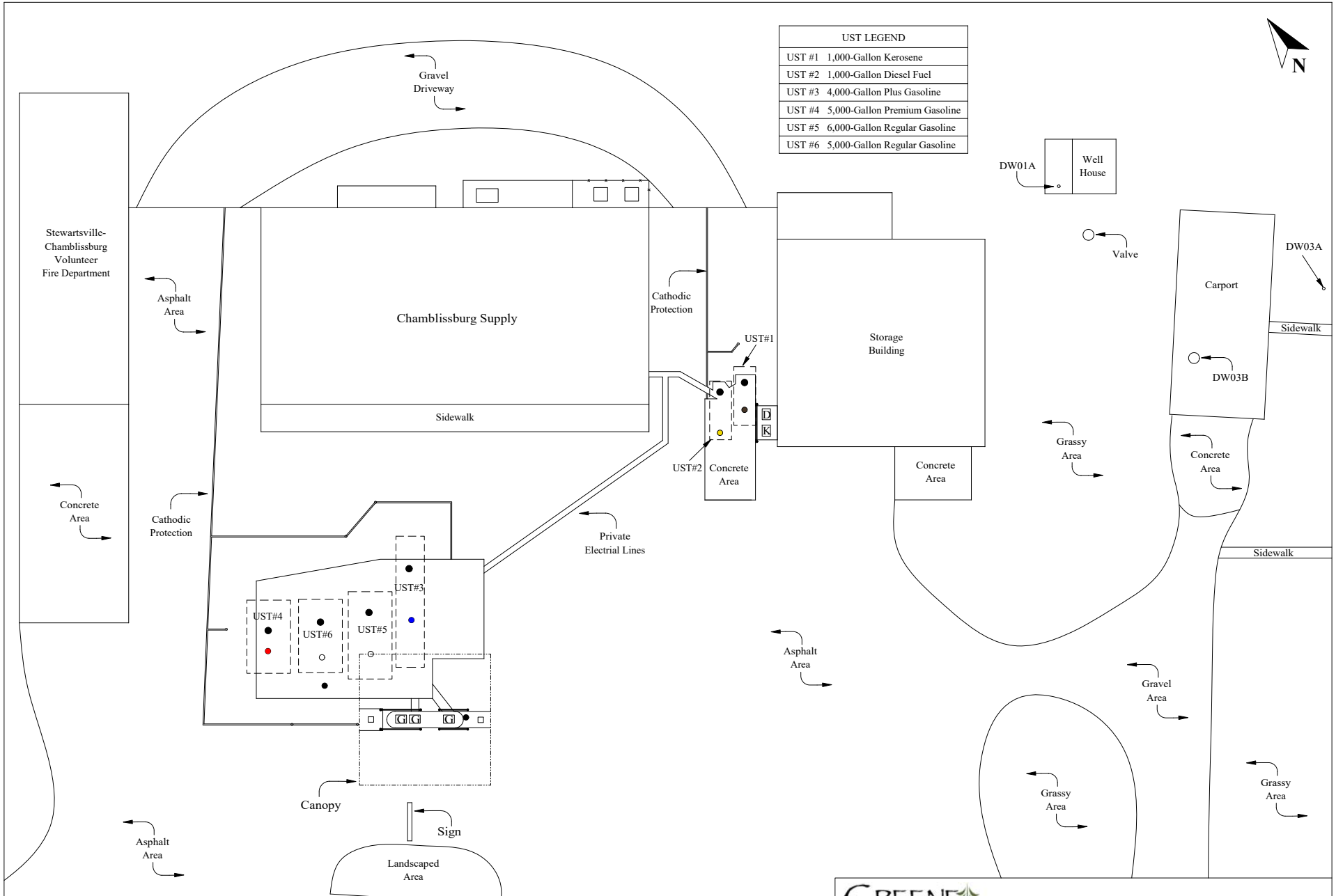
Table 16. Dual-Phase Extraction[1]	
Advantages	• reduction in contaminant concentrations and maintenance of areal extent of plume(s) • ability to remove VOCs from soils • ability to dewater an area facilitating additional recovery of VOCs from soils • effective in low permeability or heterogeneous media
Limitations	• potential for treatment of vapor recovery stream • groundwater with a high iron content may affect treatment quality • monitoring of water table fluctuations throughout system operation
Cleanup Levels & Timing[2]	• notable reduction in contaminant mass in ~6 months to 1 year [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • notable reduction in contaminant mass in ~6 months to 2 years [assuming minimal delays in corrective actions and a moderately heterogeneous, permeable subsurface]
Costs[3]	• ~$130,000 to $300,000 [assuming no delays in corrective action and a relatively homogenous, permeable subsurface] • ~$200,000 to $320,000 [assuming minimal delays in corrective action and a moderately heterogeneous, permeable subsurface]

[1]Source: U.S. Environmental Protection Agency, An Overview of Underground Storage Tank Options, Solid Waste and Emergency Response 5403W; EPA 510 F-93-029, October 1993.
[2]Site specific cleanup standards are determined by the state regulatory agency.
[3]Costs include necessary equipment and system operation and maintenance for the timeframe specified; adjusted to reflect 2015 pricing.

APPENDIX B

Maps

Site Map
Aerial Map
Topographic Map
Potential Receptors Location Map
Soil Boring Location Map - Site
Soil Boring Location Map - Aerial
Monitoring Well Location Map - Site
Monitoring Well Location Map - Aerial
Surface Water Samples Location Map
SCR Potentiometric Surface Map (10/10/2017) - Site
SCR Potentiometric Surface Map (10/10/2017) - Aerial
SCR TPH-GRO Isoconcentration Map (10/10/2017) - Site
SCR Benzene Isoconcentration Map (10/10/2017) - Site
SCR Toluene Isoconcentration Map (10/10/2017) - Site
SCR Ethylbenzene Isoconcentration Map (10/10/2017) - Site
SCR Xylenes Isoconcentration Map (10/10/2017) - Site
SCR Total BTEX Isoconcentration Map (10/10/2017) - Site
SCR MTBE Isoconcentration Map (10/10/2017) – Site
SCR MTBE Isoconcentration Map (10/10/2017) – Aerial
SCR Naphthalene Isoconcentration Map (10/10/2017) – Site
SCR Naphthalene Isoconcentration Map (10/10/2017) – Aerial
SCR EDB Isoconcentration Map (10/10/2017) -Site
SCR DIPE Isoconcentration Map (10/10/2017) – Site
SCR DIPE Isoconcentration Map (10/10/2017) – Aerial
SCR TAME Isoconcentration Map (10/10/2017) – Site
SCR TAME Isoconcentration Map (10/10/2017) – Aerial
SCR TBA Isoconcentration Map (10/10/2017) – Site
SCR TBA Isoconcentration Map (10/10/2017) – Aerial
SCR Total Lead Isoconcentration Map (10/10/2017) – Site
SCR Total Lead Isoconcentration Map (10/10/2017) – Aerial
SCR Geophysical Borehole Logging Summary
Proposed Shallow Water Monitoring Well Location Map
Proposed Deep Water Monitoring Well Location Map



GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SITE MAP		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002A
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	01/05/17
COMMENTS:		DRAWN BY:	MAF

Aerial Map

Chamblissburg Supply
10625 Stewartsville Road
Vinton, VA 24179

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596
Fax: 540-483-3381
www.greene-environmental.com

BEDFORD COUNTY, VIRGINIA

Source: Google Earth

Scale: Not to Scale

Project: SCR

Client: Estate of Lacy Dudley

Greene Job #: CSVI1002

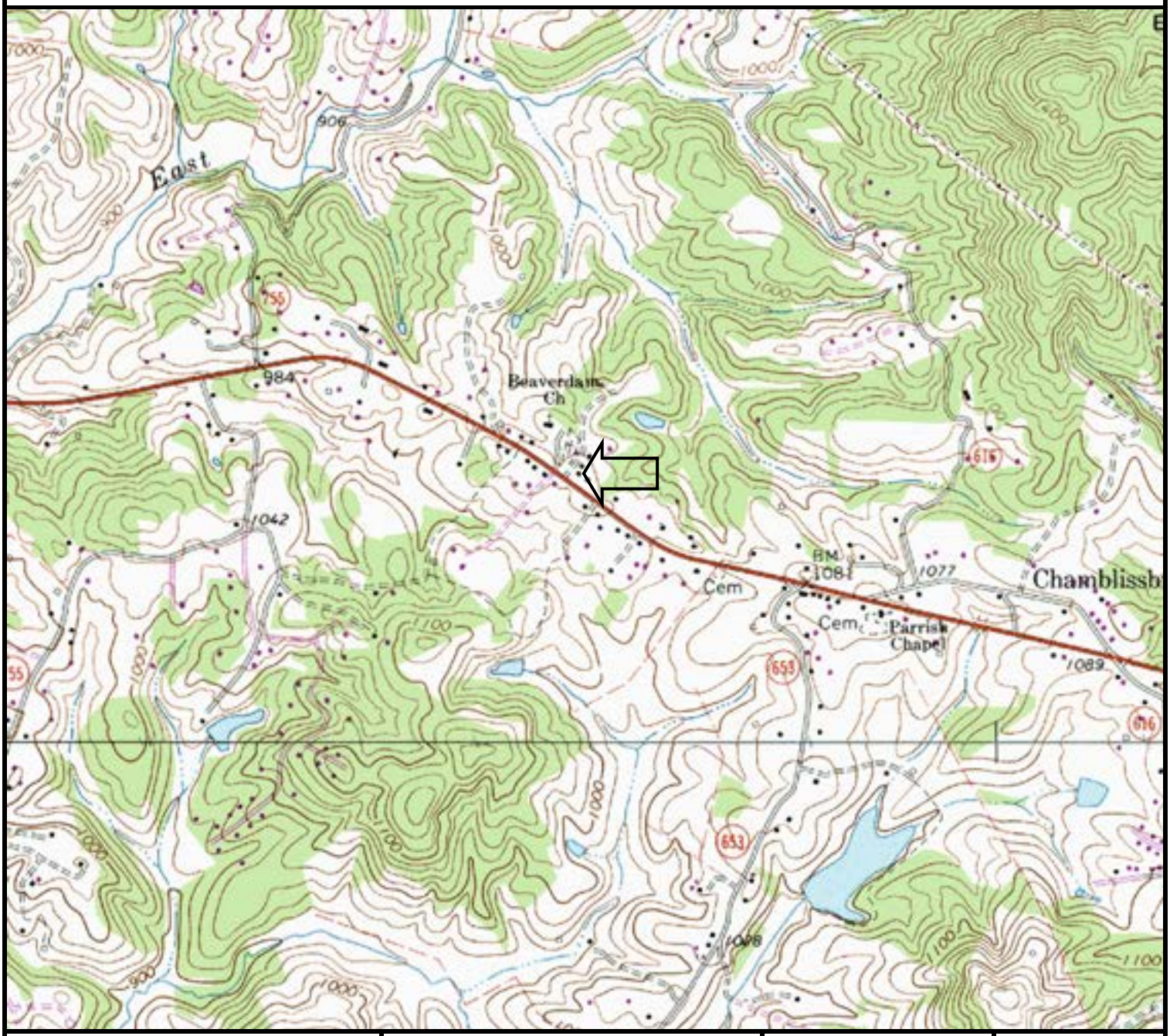
Date: January 5, 2018

N
W E
S

Latitude:
037.257362°N
Longitude:
079.722368° W

Topographic Map

Chamblissburg Supply
10625 Stewartsville Road
Vinton, VA 24179



GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596
Fax: 540-483-3381
www.greene-environmental.com

IRVING, VIRGINIA

Source: U.S.G.S. Topographic Map of the Irving Quadrangle, Virginia, 7.5 Minute Series (1967, revised 1985)
Scale: Not to Scale Contour Interval: 20 Feet
Vertical Datum: National Geodetic Vertical Datum 1929
Horizontal Datum: North American Datum1927

Project: SCR

Client: Estate of Lacy Dudley

Greene Job #: CSVI1002

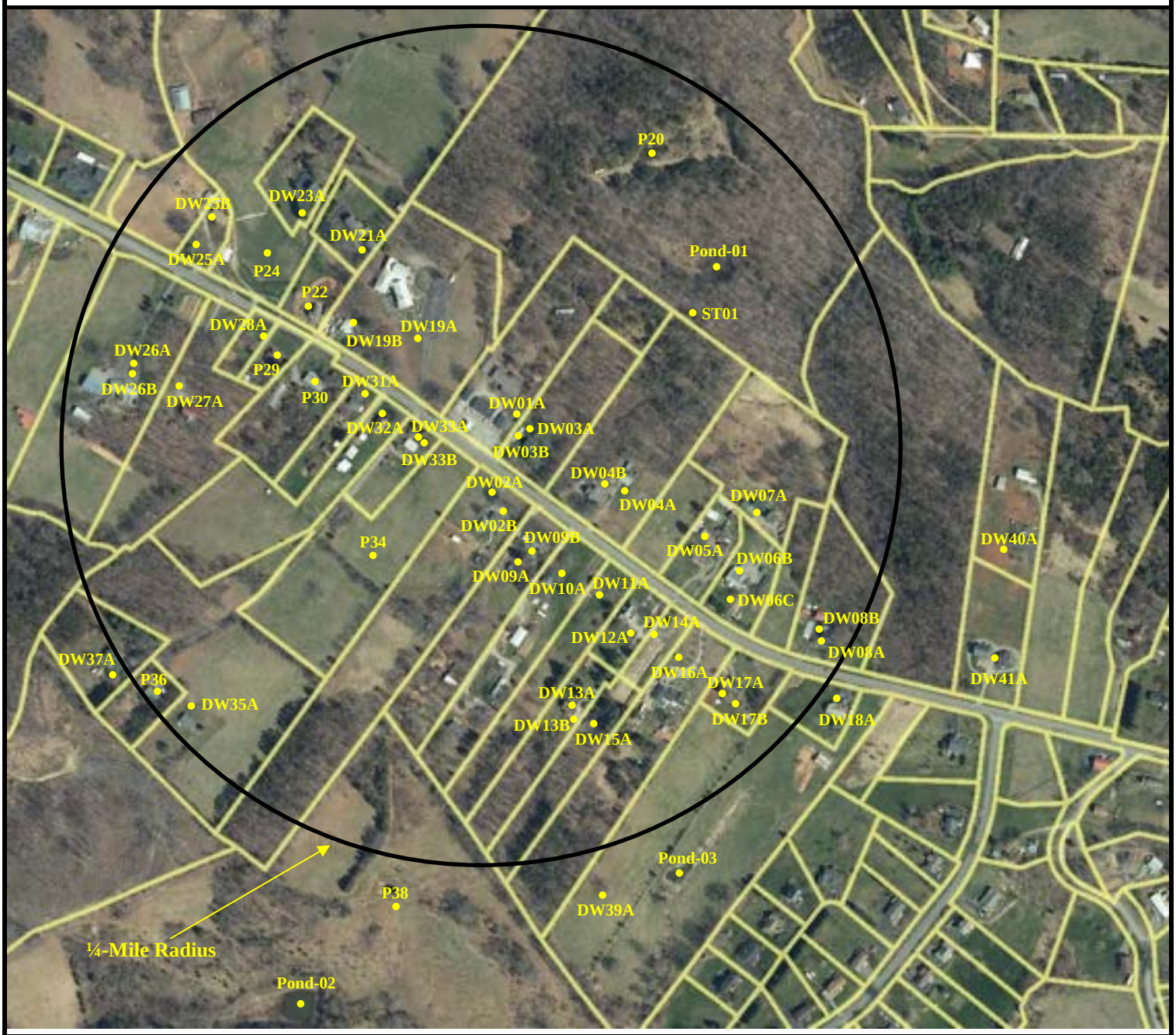
Date: January 5, 2018

N
W E
S

Latitude: 037.257362°N
Longitude: 079.722368° W

Potential Receptors Location Map

Chamblissburg Supply
10625 Stewartsville Road
Vinton, VA 24179



GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596
Fax: 540-483-3381

www.greene-environmental.com

BEDFORD COUNTY, VIRGINIA

Source: Google Earth

Scale: Not to Scale

Project: SCR

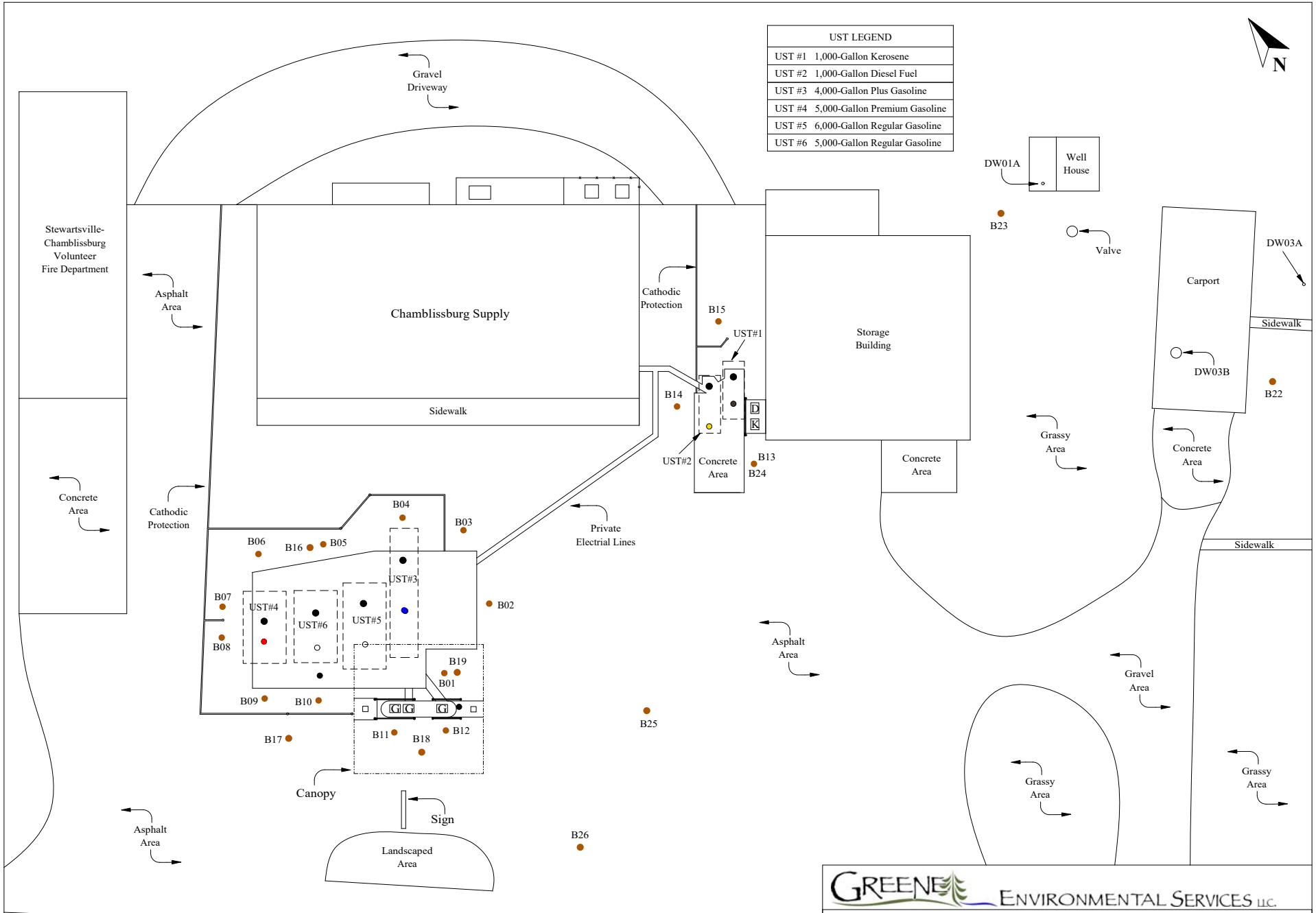
Client: Estate of Lacy Dudley

Greene Job #: CSVI1002

Date: January 5, 2018

N
W E
S

Latitude:
037.257362°N
Longitude:
079.722368° W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UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Sidewalk
Cathodic Protection
B15
UST#1
Storage Building
DW01A
Well House
B23
Valve
DW03A
Carport
Sidewalk
DW03B
B22
B14
UST#2
Concrete Area
B13
B24
Concrete Area
Grassy Area
Concrete Area
Concrete Area
Cathodic Protection
B04
B03
Private Electrial Lines
B06
B16
B05
UST#3
B07
UST#4
UST#6
UST#5
B02
B08
Asphalt Area
B19
B01
Gravel Area
B09
B10
B25
B17
B11
B18
B12
Canopy
Sign
Grassy Area
Grassy Area
Asphalt Area
B26
Landscaped Area
0
8.25
16.5
24.75
33
Feet
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: SOIL BORING LOCATION MAP - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002B
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/19/17
COMMENTS:
DRAWN BY: MAF

0 26.5 53 79.5 106 Feet

GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SOIL BORING LOCATION MAP - AERIAL		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002C
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/19/17
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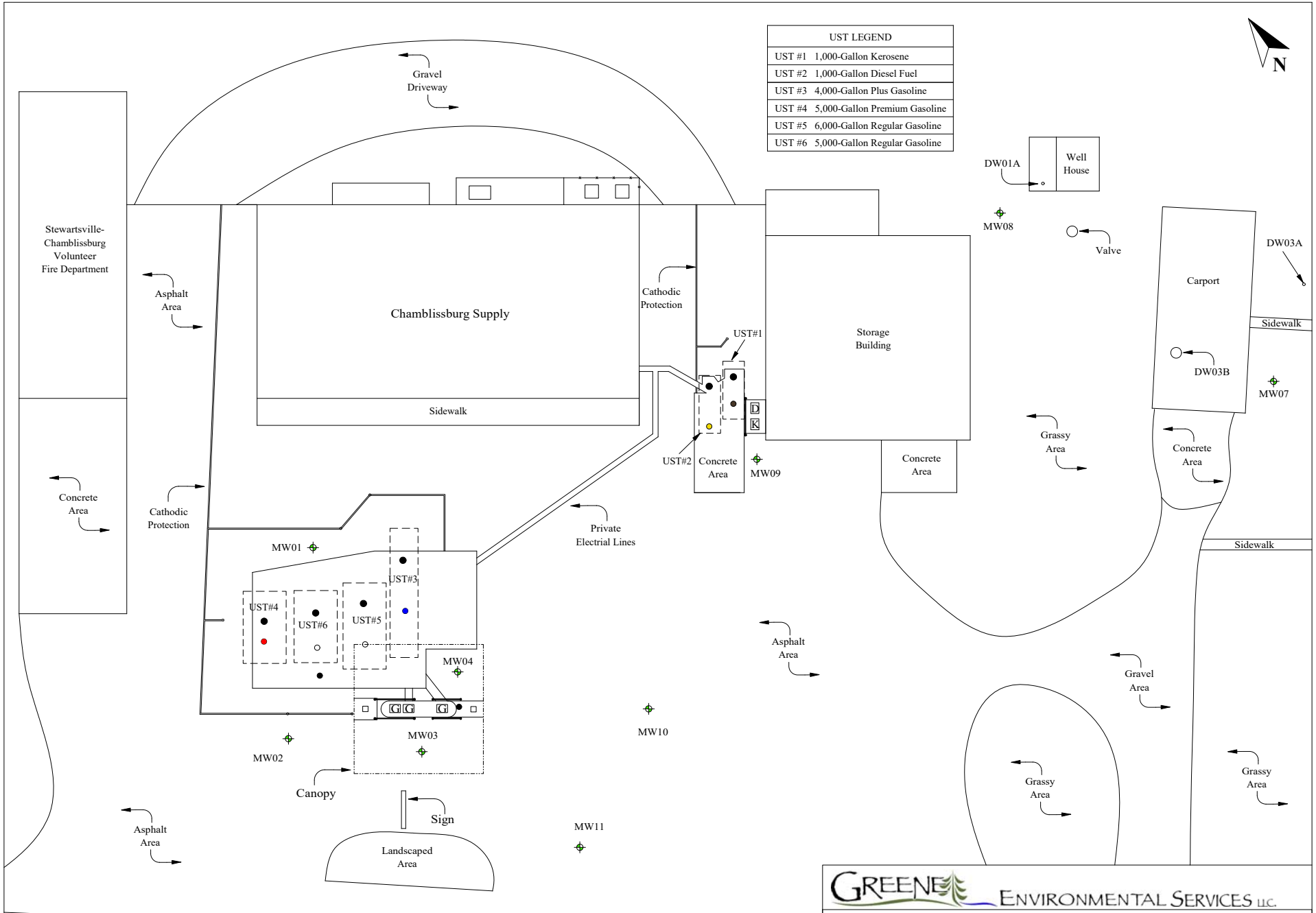

GREENE ENVIRONMENTAL SERVICES LLC.

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CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/15/17
COMMENTS:		DRAWN BY:	MAF

0 26.5 53 79.5 106 Feet

GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	MONITORING WELL LOCATION MAP - AERIAL		
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CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:		DRAWN BY:	MAF

Surface Water Samples Location Map

Chamblissburg Supply
10625 Stewartsville Road
Vinton, VA 24179

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596
Fax: 540-483-3381

www.greene-environmental.com

BEDFORD COUNTY, VIRGINIA

Source: Google Earth

Scale: Not to Scale

Project: SCR

Client: Estate of Lacy Dudley

Greene Job #: CSVI1002

Date: January 5, 2018

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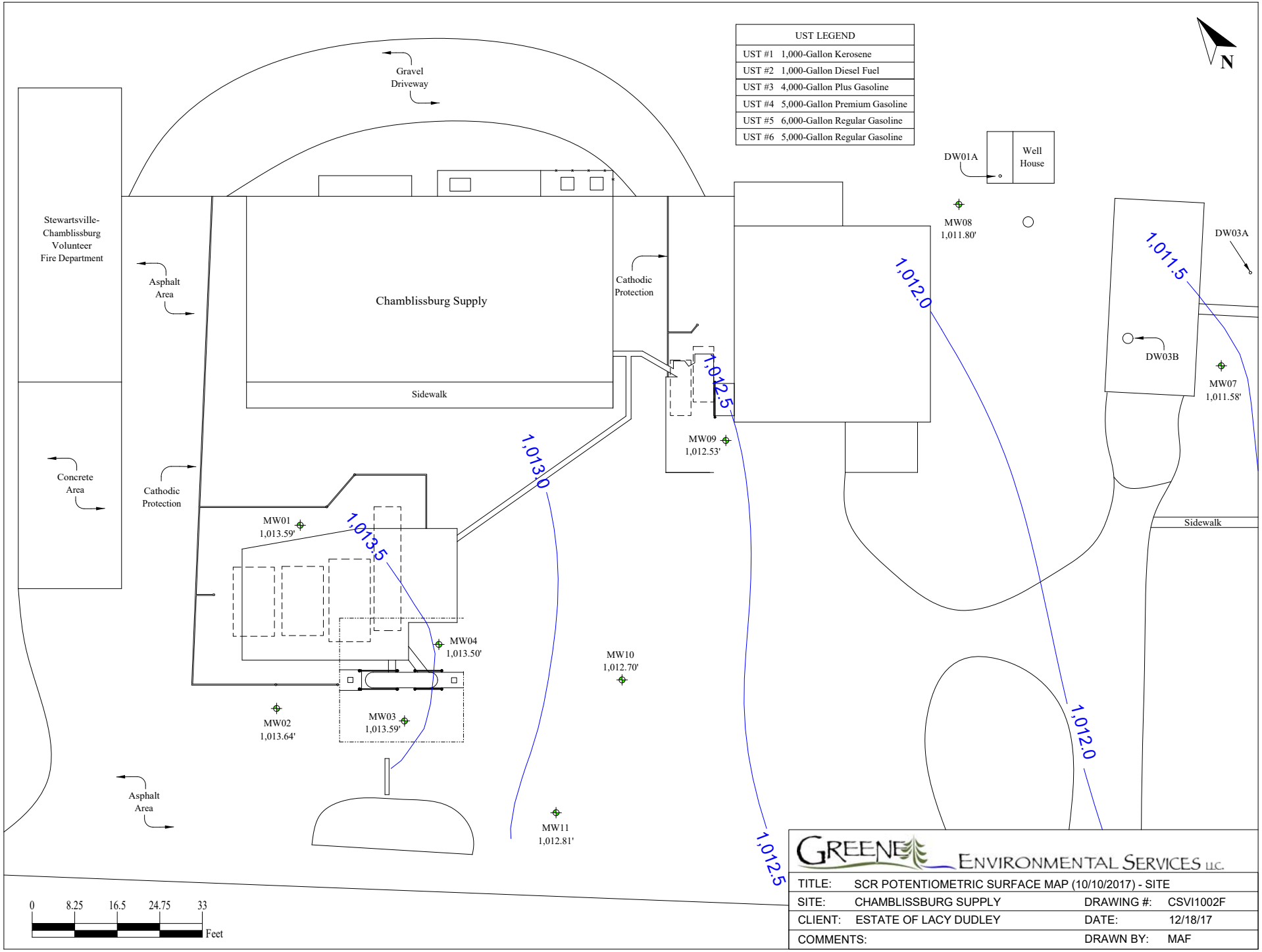
W E
S

Latitude:
037.257362°N
Longitude:
079.722368° W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UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Cathodic Protection
Sidewalk
Concrete Area
Cathodic Protection
Asphalt Area
DW01A
Well House
MW08 1,011.80'
DW03A
DW03B
MW07 1,011.58'
MW09 1,012.53'
MW01 1,013.59'
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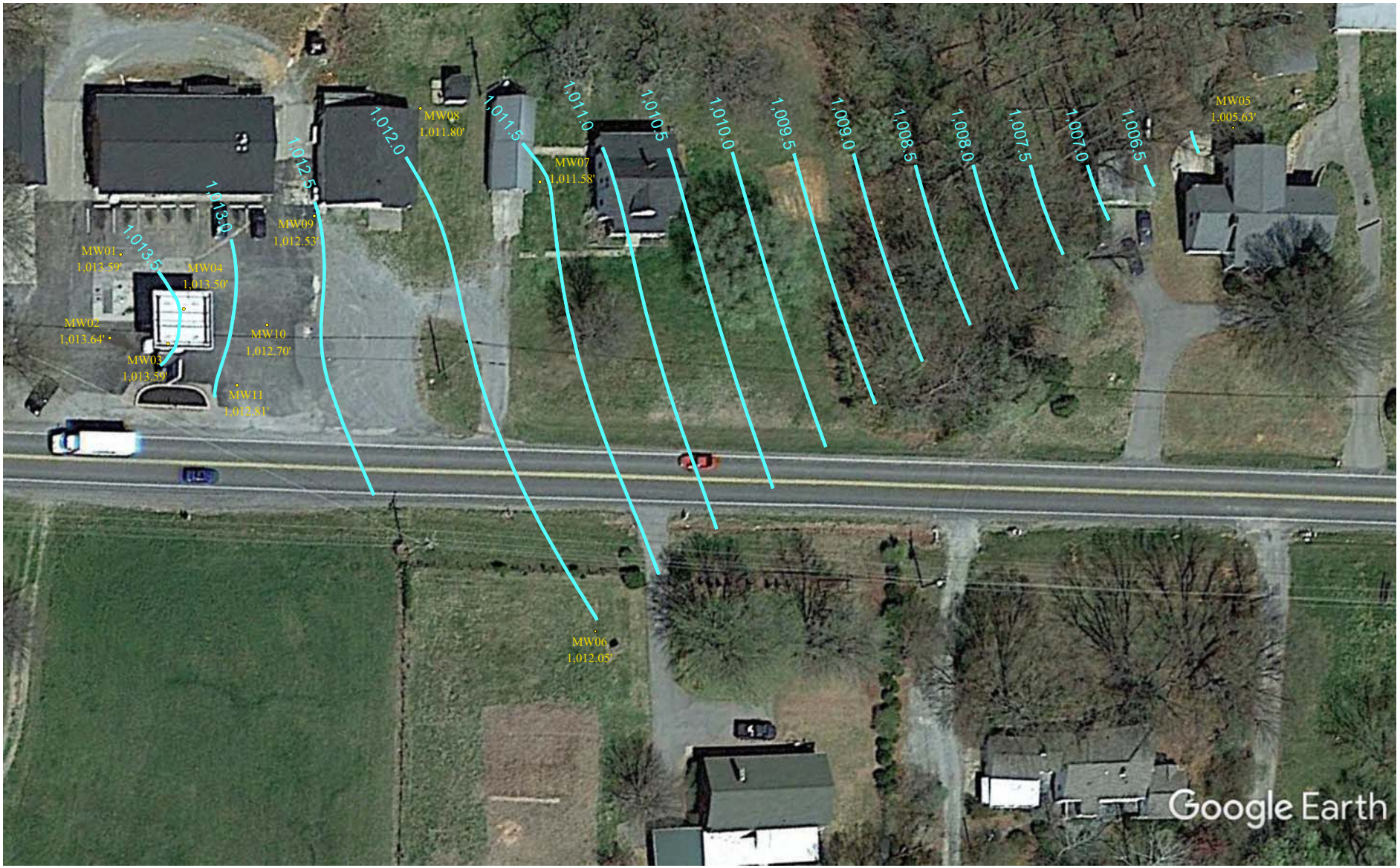
1,011.5
Sidewalk
0 8.25 16.5 24.75 33 Feet
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: SCR POTENTIOMETRIC SURFACE MAP (10/10/2017) - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002F
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/18/17
COMMENTS:
DRAWN BY: MAF



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GREENE ENVIRONMENTAL SERVICES LLC.

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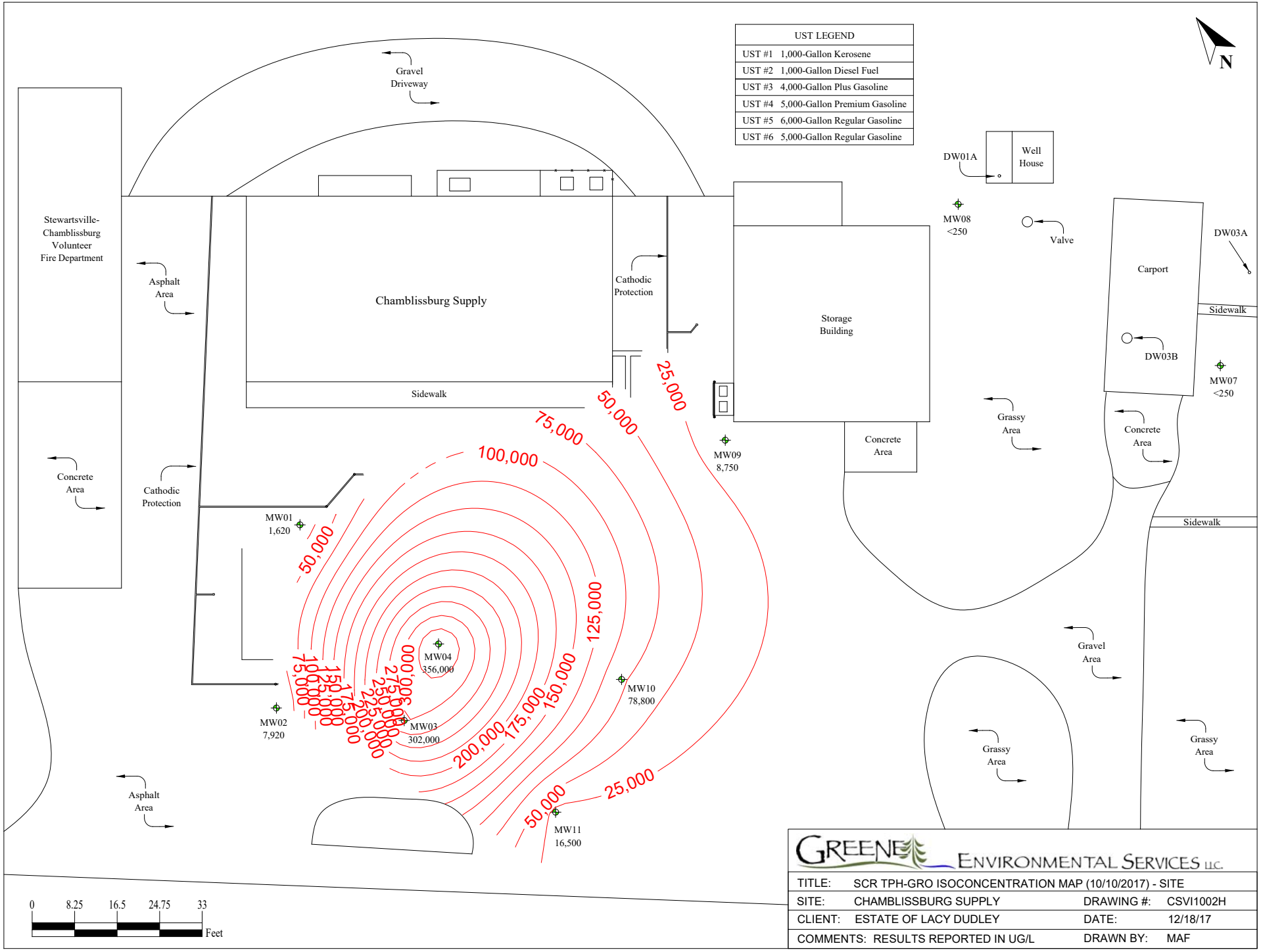
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UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Cathodic Protection
Sidewalk
Storage Building
Concrete Area
Well House
DW01A
MW08 <250
Valve
Carport
DW03A
DW03B
MW07 <250
Grassy Area
Concrete Area
MW09 8,750
Concrete Area
Cathodic Protection
MW01 1,620
MW02 7,920
MW03 302,000
MW04 356,000
MW10 78,800
MW11 16,500
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125,000
150,000
175,000
200,000
Sidewalk
Gravel Area
Grassy Area
Grassy Area
Asphalt Area
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GREENE ENVIRONMENTAL SERVICES LLC.
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SITE: CHAMBLISSBURG SUPPLY
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CLIENT: ESTATE OF LACY DUDLEY
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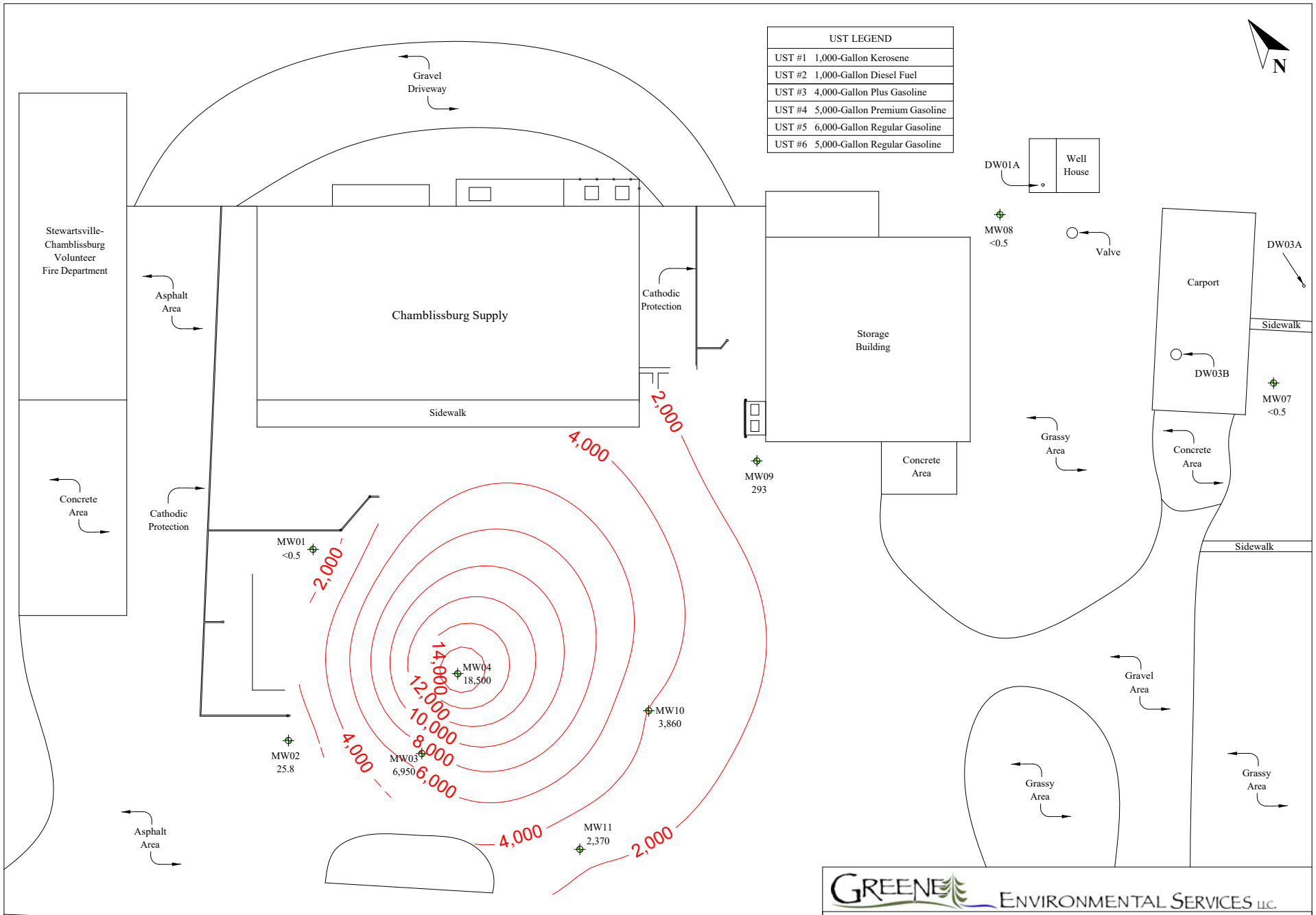

GREENE ENVIRONMENTAL SERVICES LLC.

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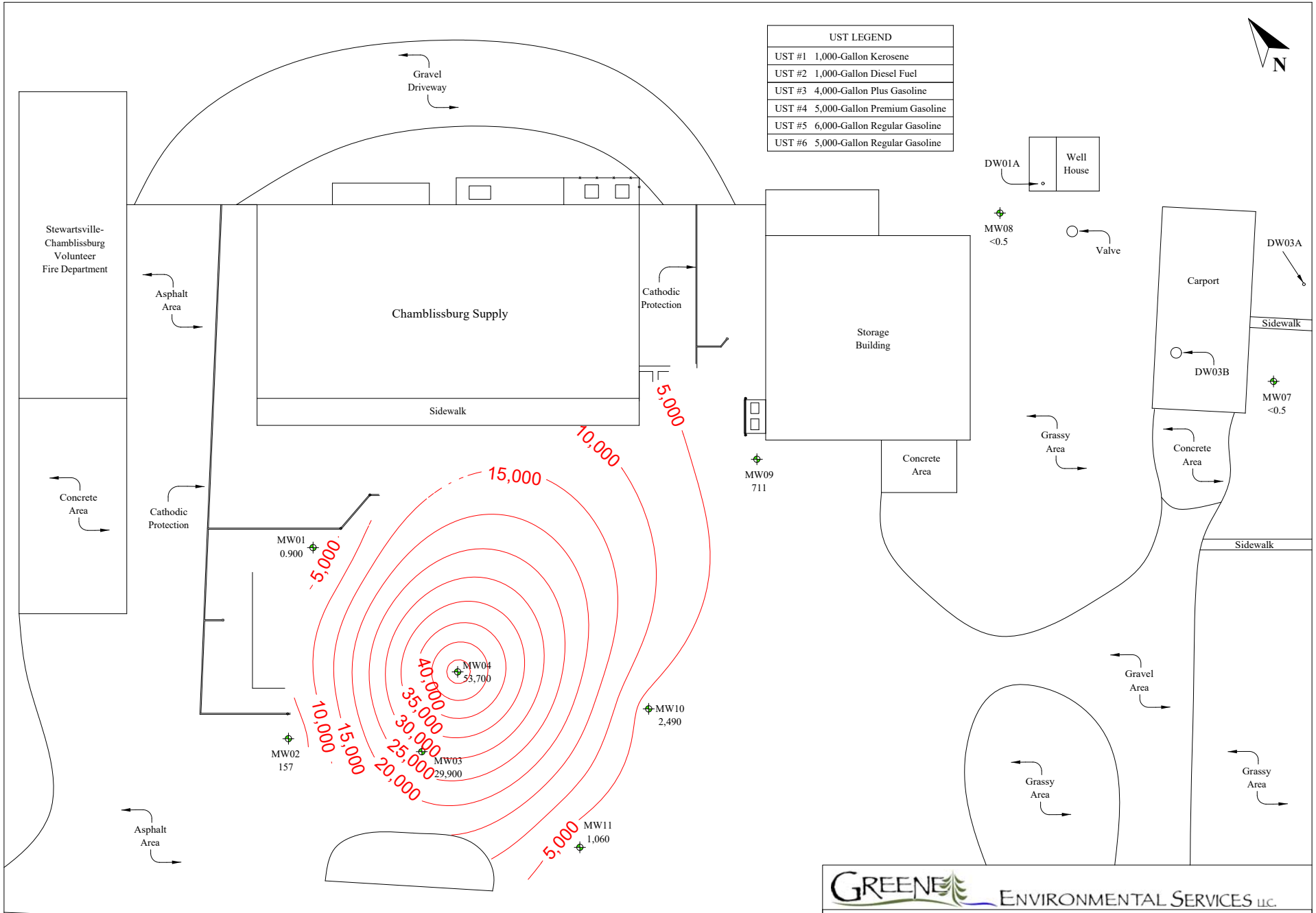
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:	RESULTS REPORTED IN UG/L	DRAWN BY:	MAF



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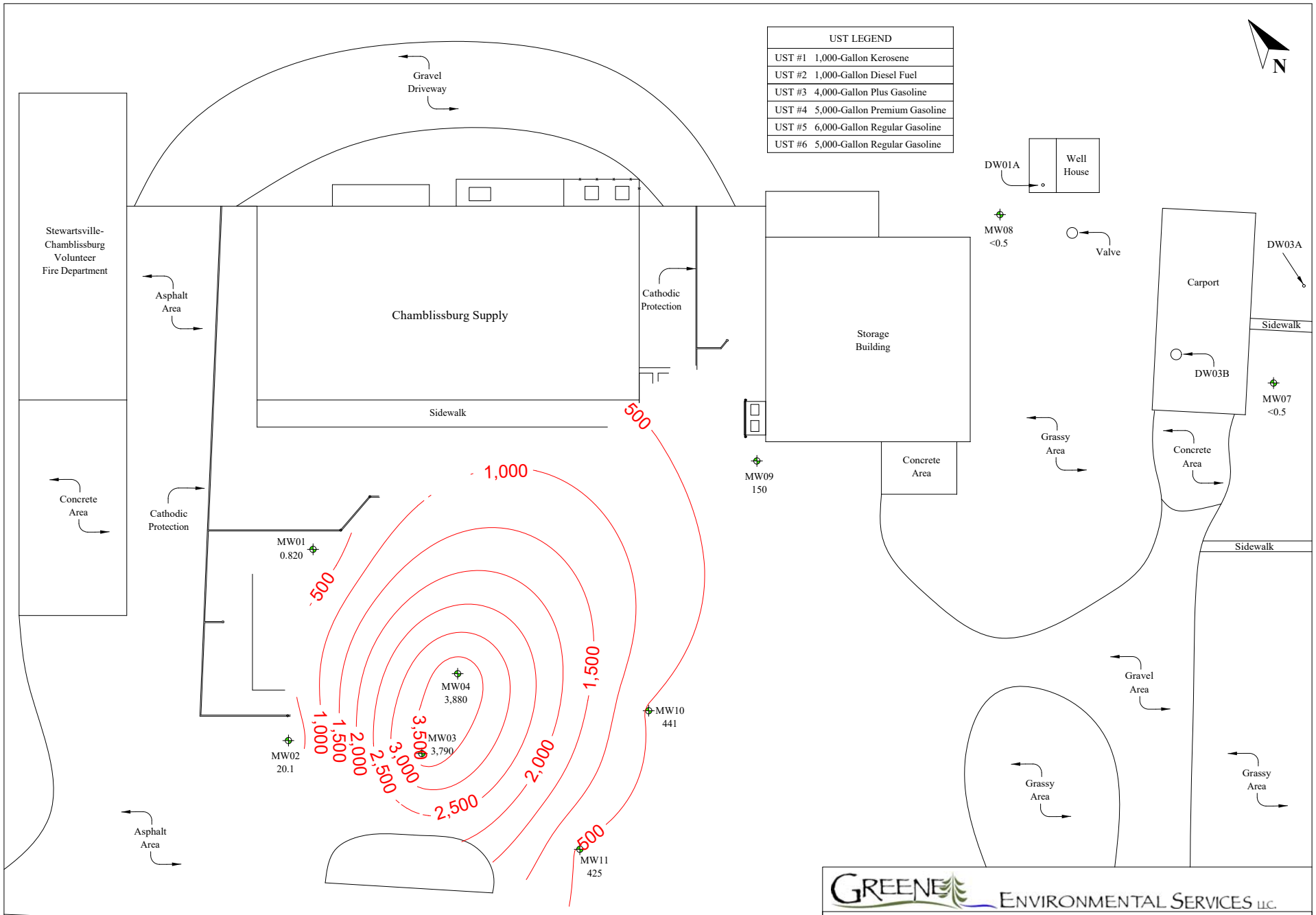
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:	RESULTS REPORTED IN UG/L	DRAWN BY:	MAF



GREENE ENVIRONMENTAL SERVICES LLC.

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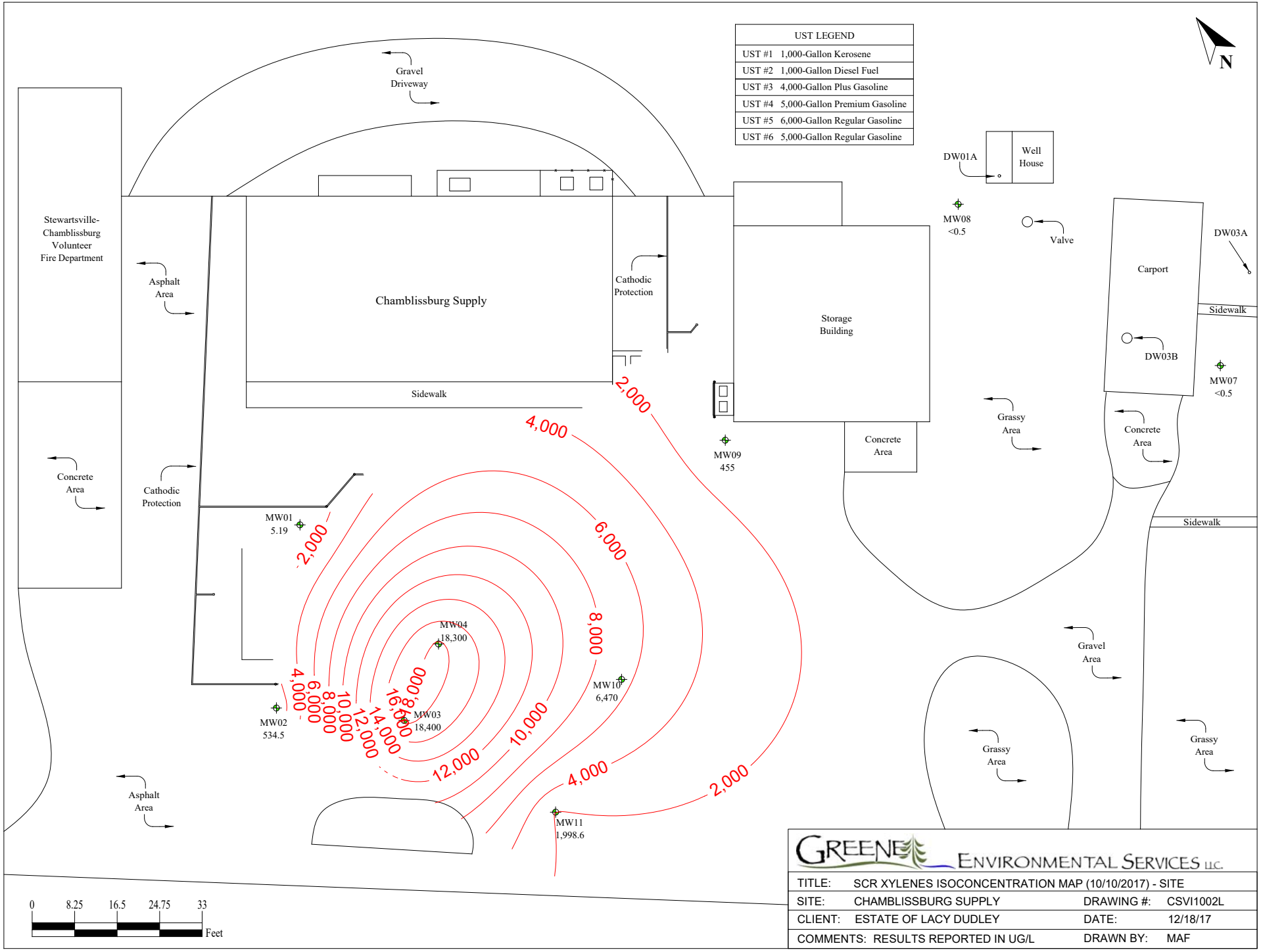
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:	RESULTS REPORTED IN UG/L	DRAWN BY:	MAF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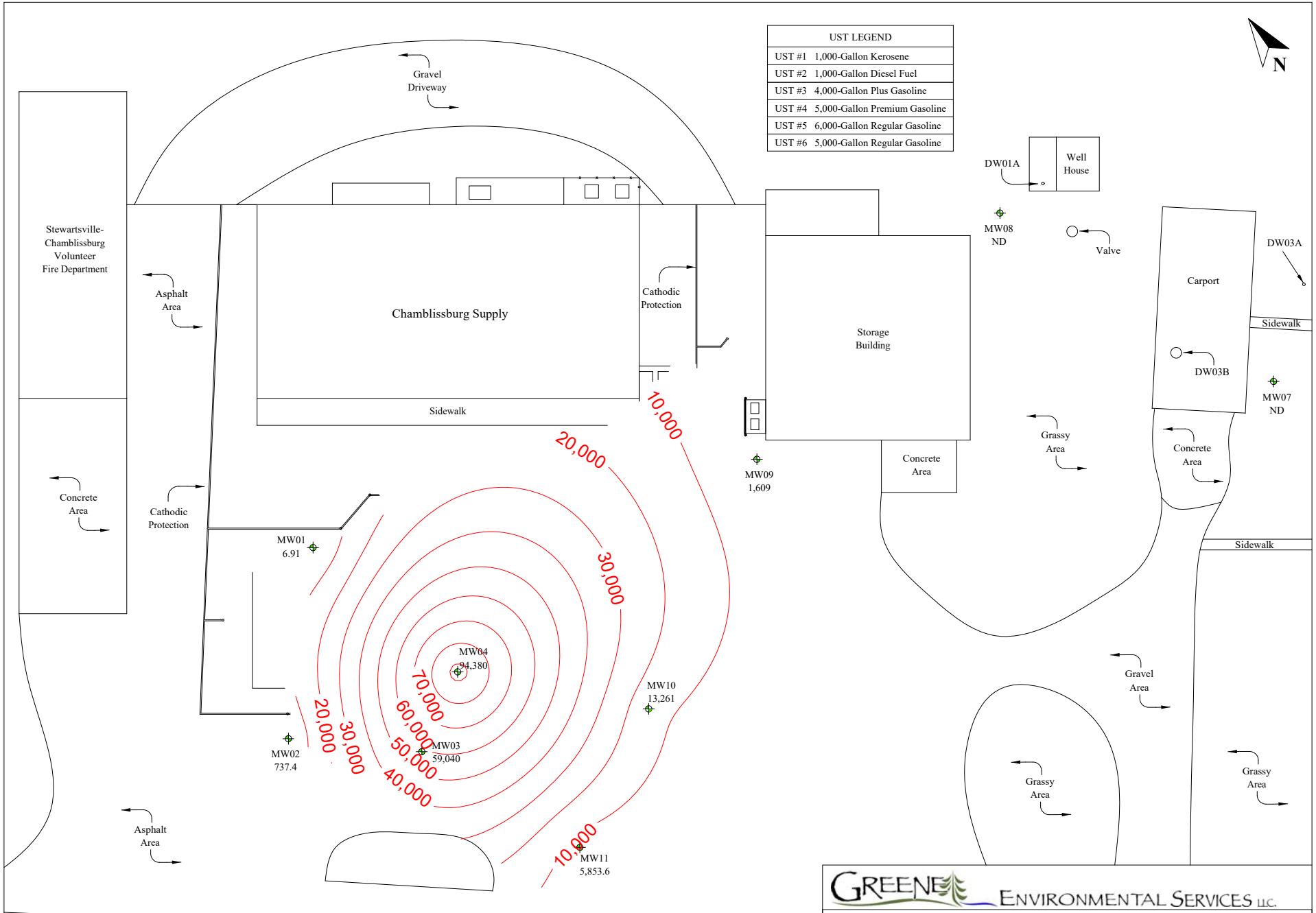
UST #1 1,000-Gallon Kerosene
UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Cathodic Protection
Sidewalk
Storage Building
Concrete Area
Carport
DW01A
Well House
MW08 <0.5
Valve
DW03A
DW03B
MW07 <0.5
Grassy Area
MW09 455
Concrete Area
Cathodic Protection
MW01 5.19
MW02 534.5
MW03 18,400
MW04 18,300
MW10 6,470
MW11 1,998.6
2,000
4,000
6,000
8,000
10,000
12,000
14,000
16,000
Gravel Area
Grassy Area
Asphalt Area
0 8.25 16.5 24.75 33 Feet
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: SCR XYLENES ISOCONCENTRATION MAP (10/10/2017) - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002L
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/18/17
COMMENTS: RESULTS REPORTED IN UG/L
DRAWN BY: MAF



GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR TOTAL BTEX ISOCONCENTRATION MAP (10/10/2017) - SITE		
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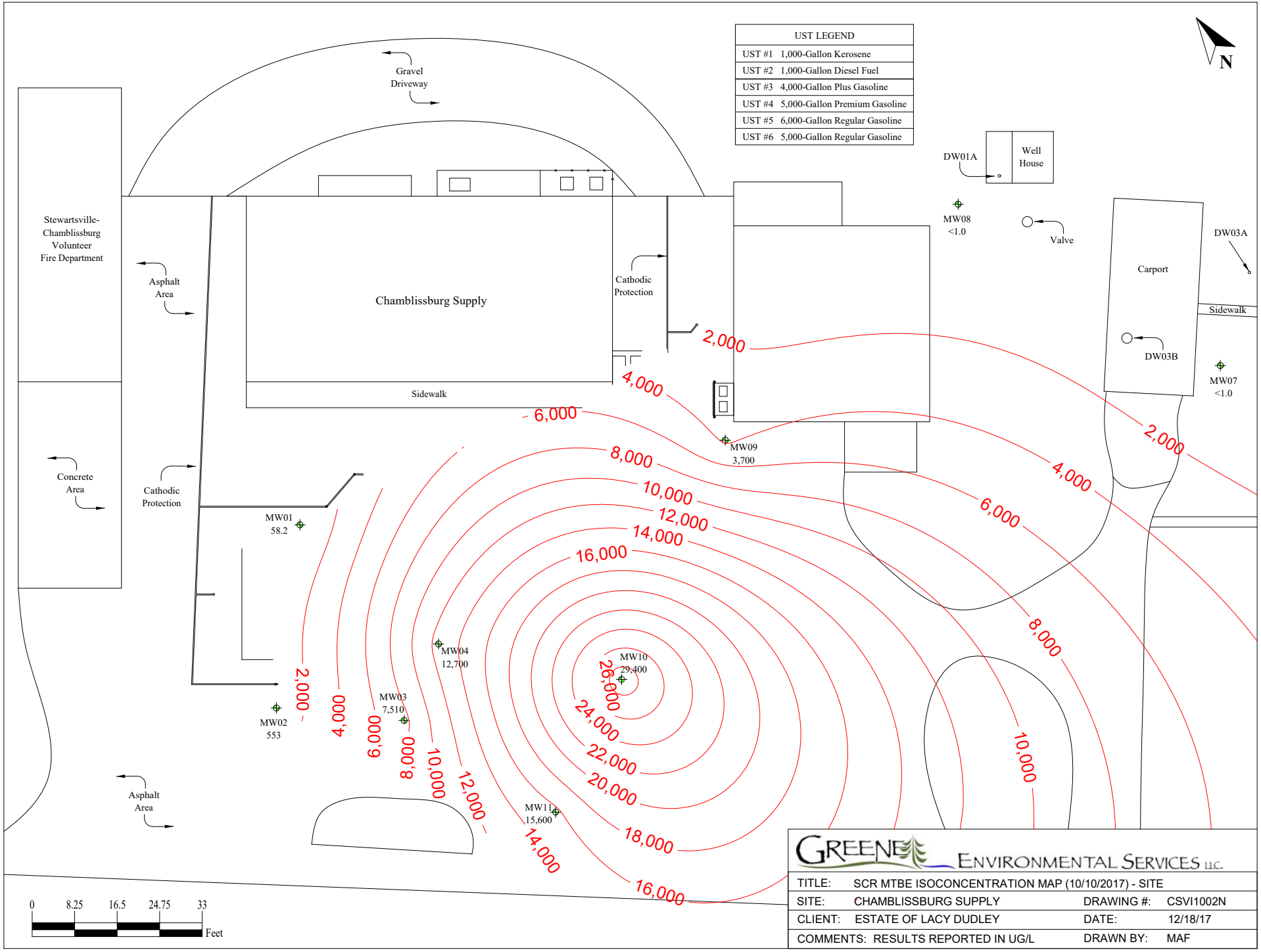

GREENE ENVIRONMENTAL SERVICES LLC.

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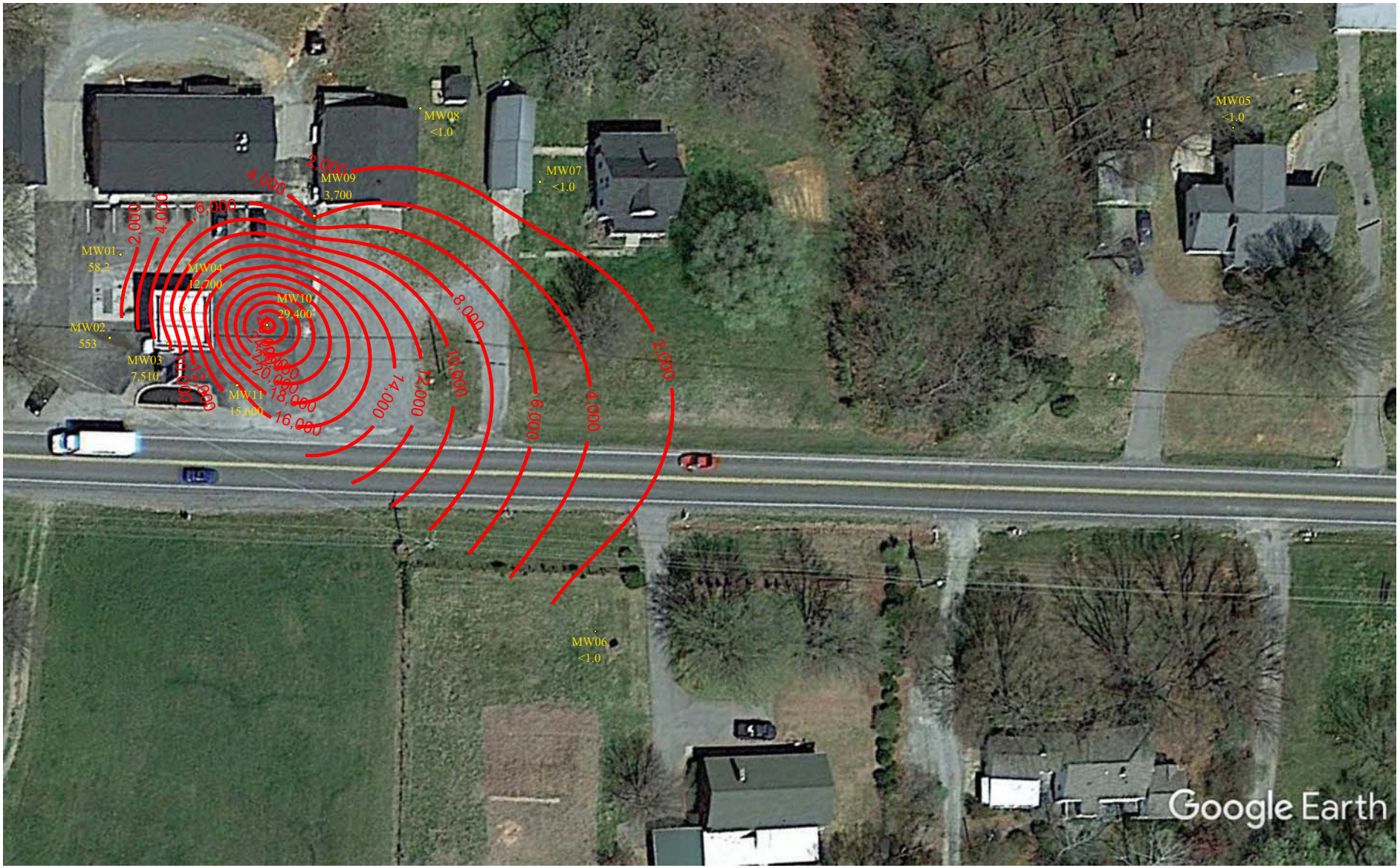
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:	RESULTS REPORTED IN UG/L	DRAWN BY:	MAF



0 26.5 53 79.5 106 Feet

GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR MTBE ISOCONCENTRATION MAP (10/10/2017) - AERIAL		
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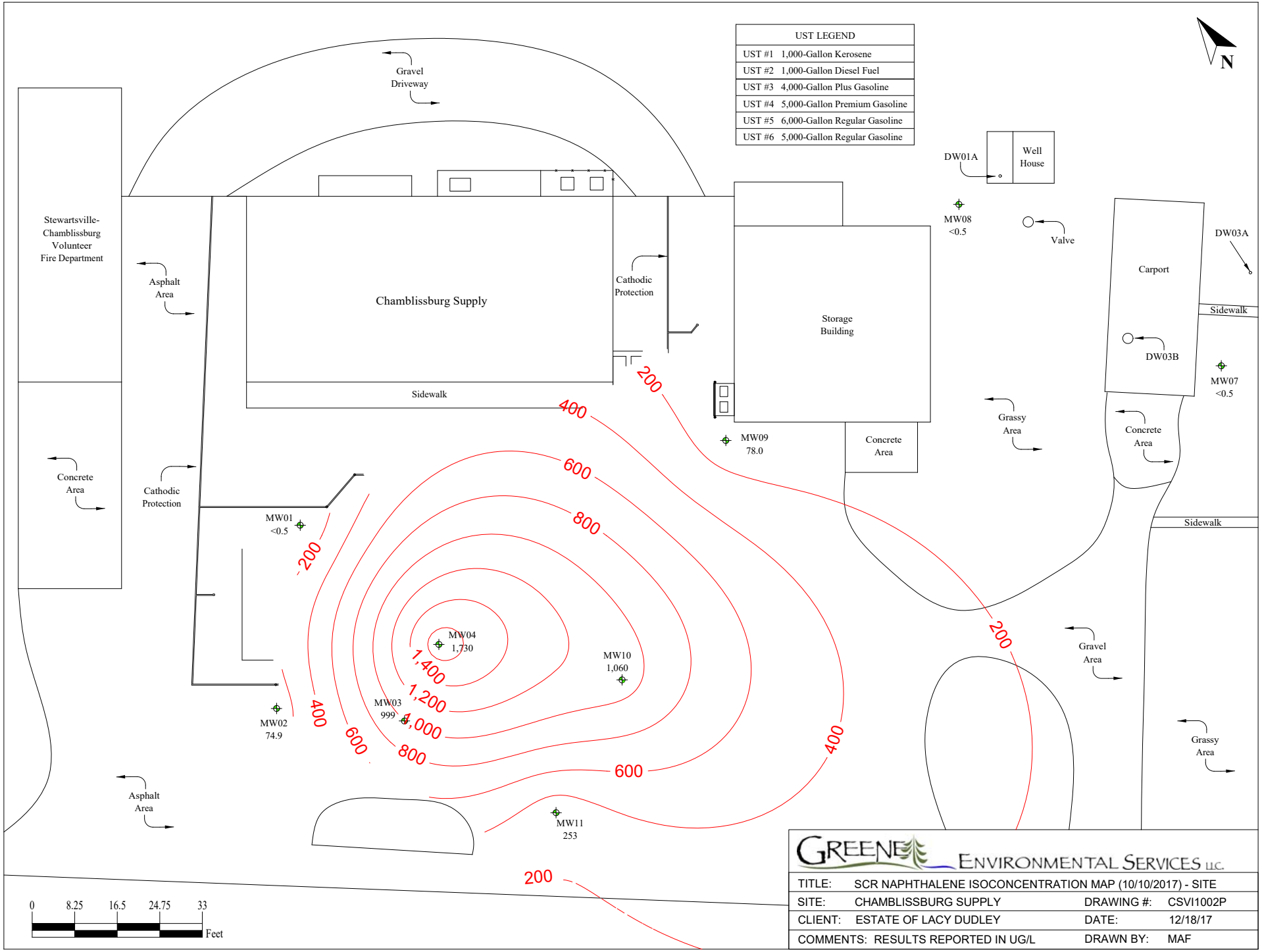
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:		DRAWN BY:	MAF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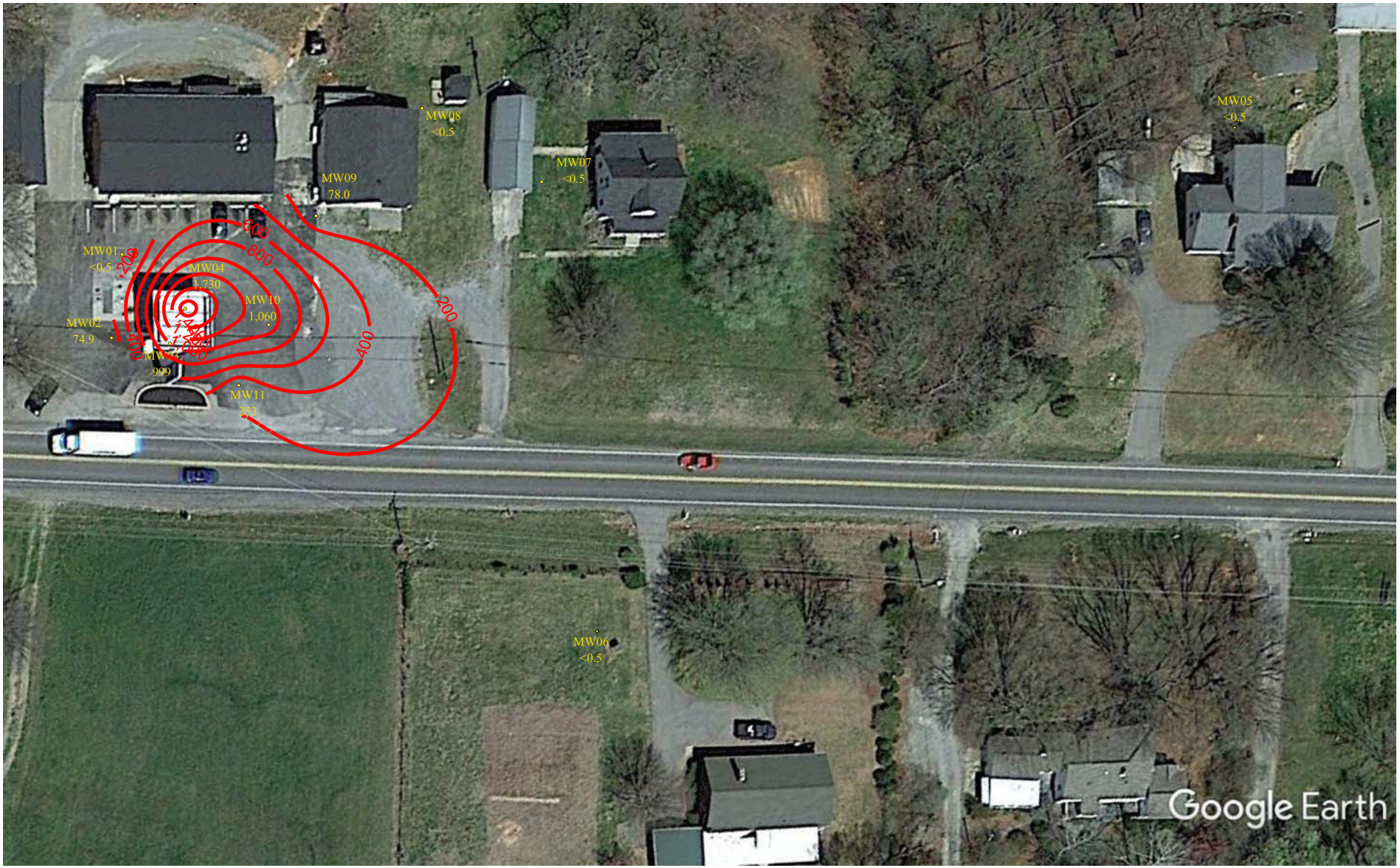
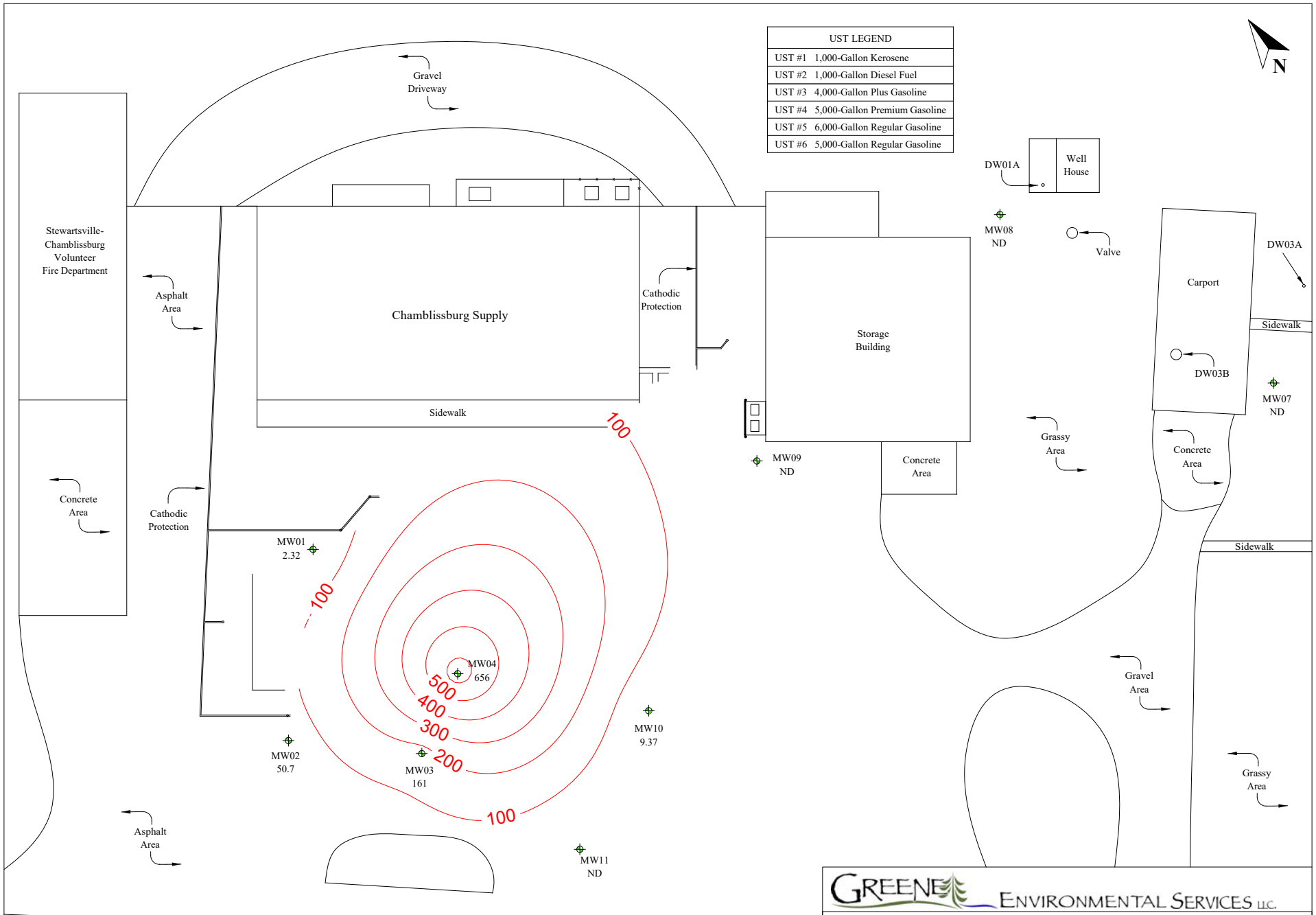
UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Cathodic Protection
Storage Building
Sidewalk
Concrete Area
Cathodic Protection
Concrete Area
Asphalt Area
DW01A
Well House
MW08 <0.5
Valve
Carport
DW03A
Sidewalk
DW03B
MW07 <0.5
Grassy Area
Concrete Area
MW09 78.0
Concrete Area
Sidewalk
Gravel Area
Grassy Area
MW01 <0.5
MW04 1,730
MW10 1,060
MW03 999
MW02 74.9
MW11 253
200
400
600
800
1,400
1,200
1,000
0 8.25 16.5 24.75 33
Feet
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: SCR NAPHTHALENE ISOCONCENTRATION MAP (10/10/2017) - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002P
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/18/17
COMMENTS: RESULTS REPORTED IN UG/L
DRAWN BY: MAF



0 26.5 53 79.5 106 Feet

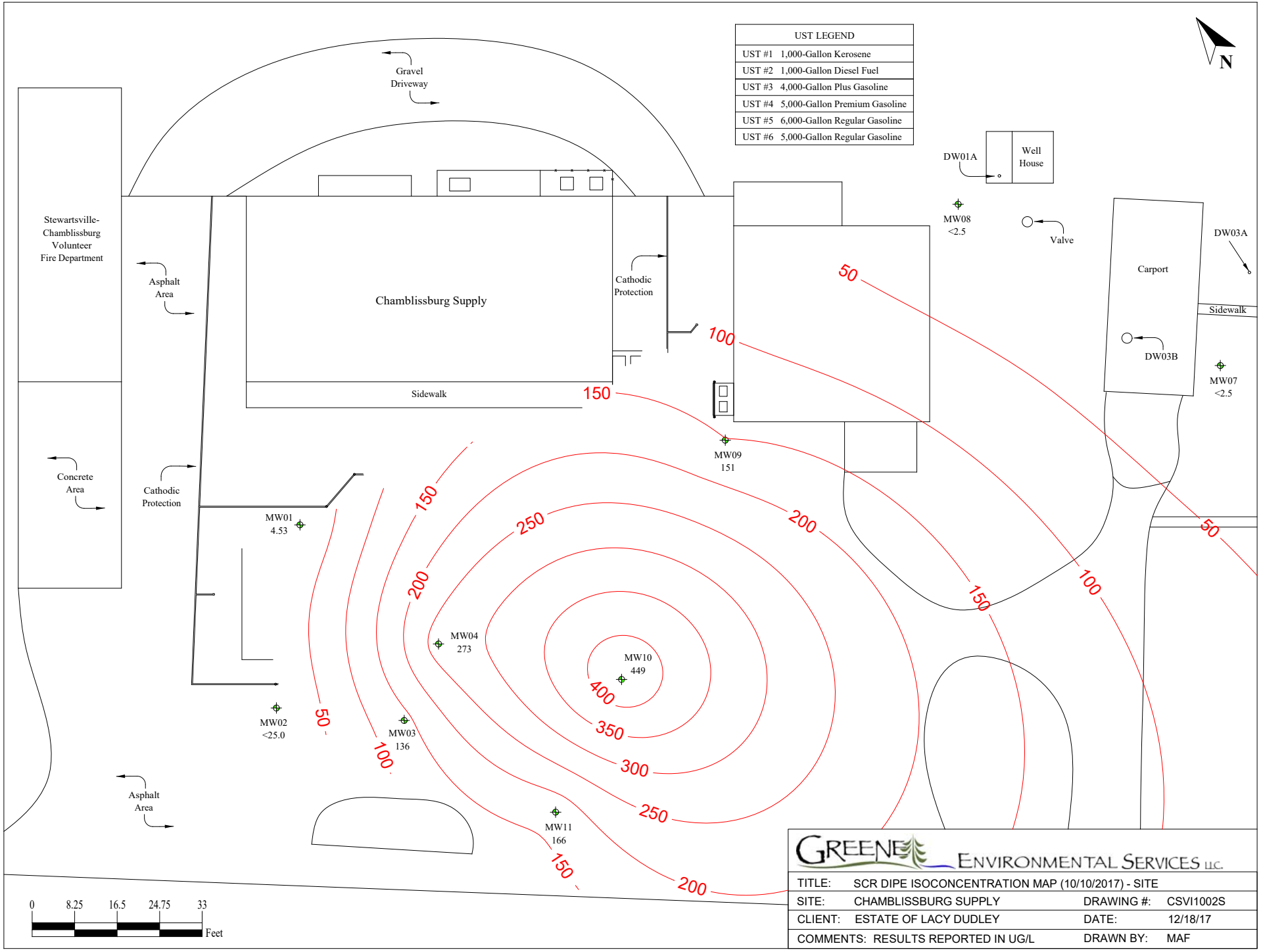
GREENE ENVIRONMENTAL SERVICES LLC.

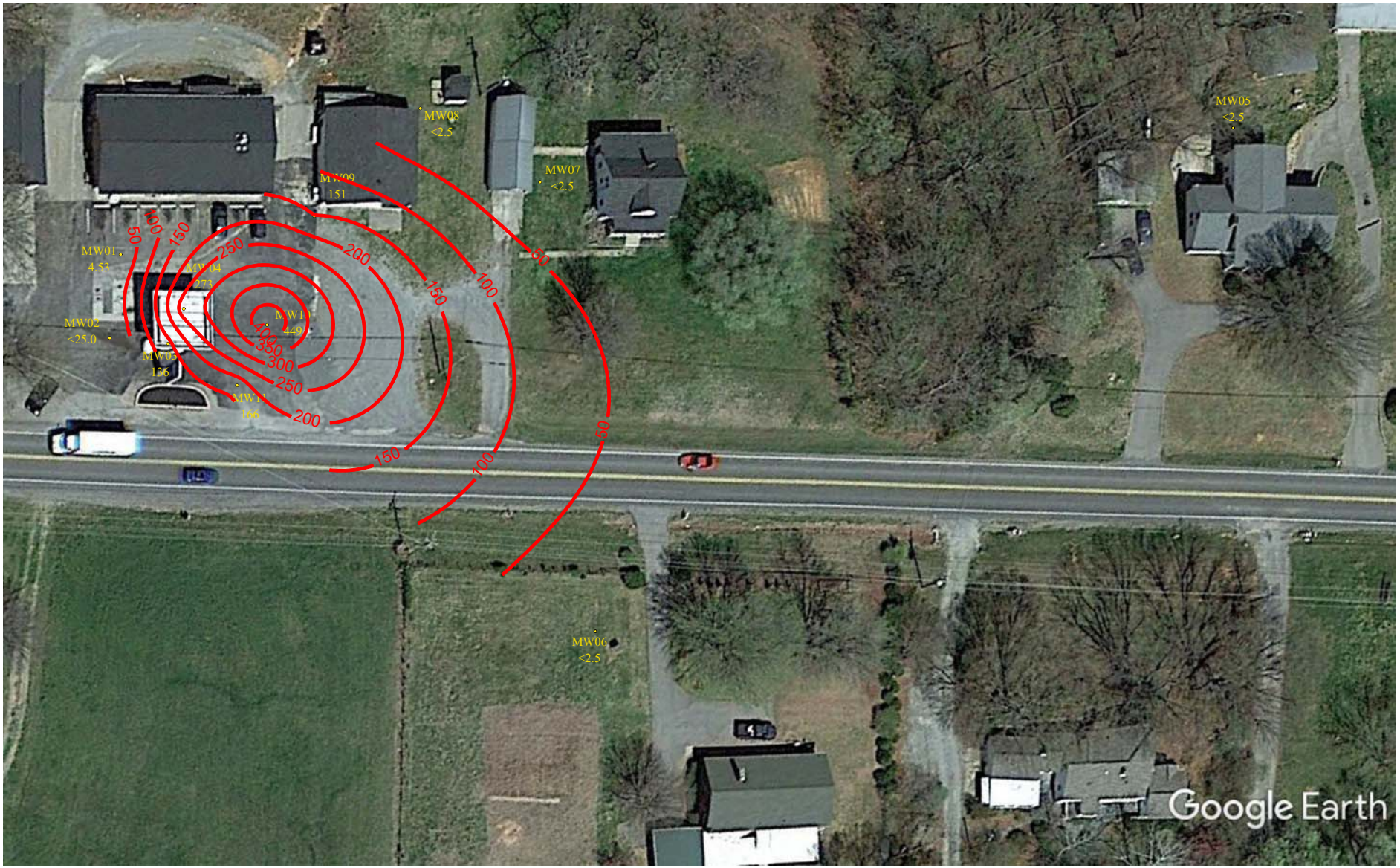
TITLE:	SCR NAPHTHALENE ISOCONCENTRATION MAP (10/10/2017) - AERIAL		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002Q
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:		DRAWN BY:	MAF



GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR EDB ISOCONCENTRATION MAP (10/10/2017) - SITE		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002R
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:	RESULTS REPORTED IN UG/L	DRAWN BY:	MAF

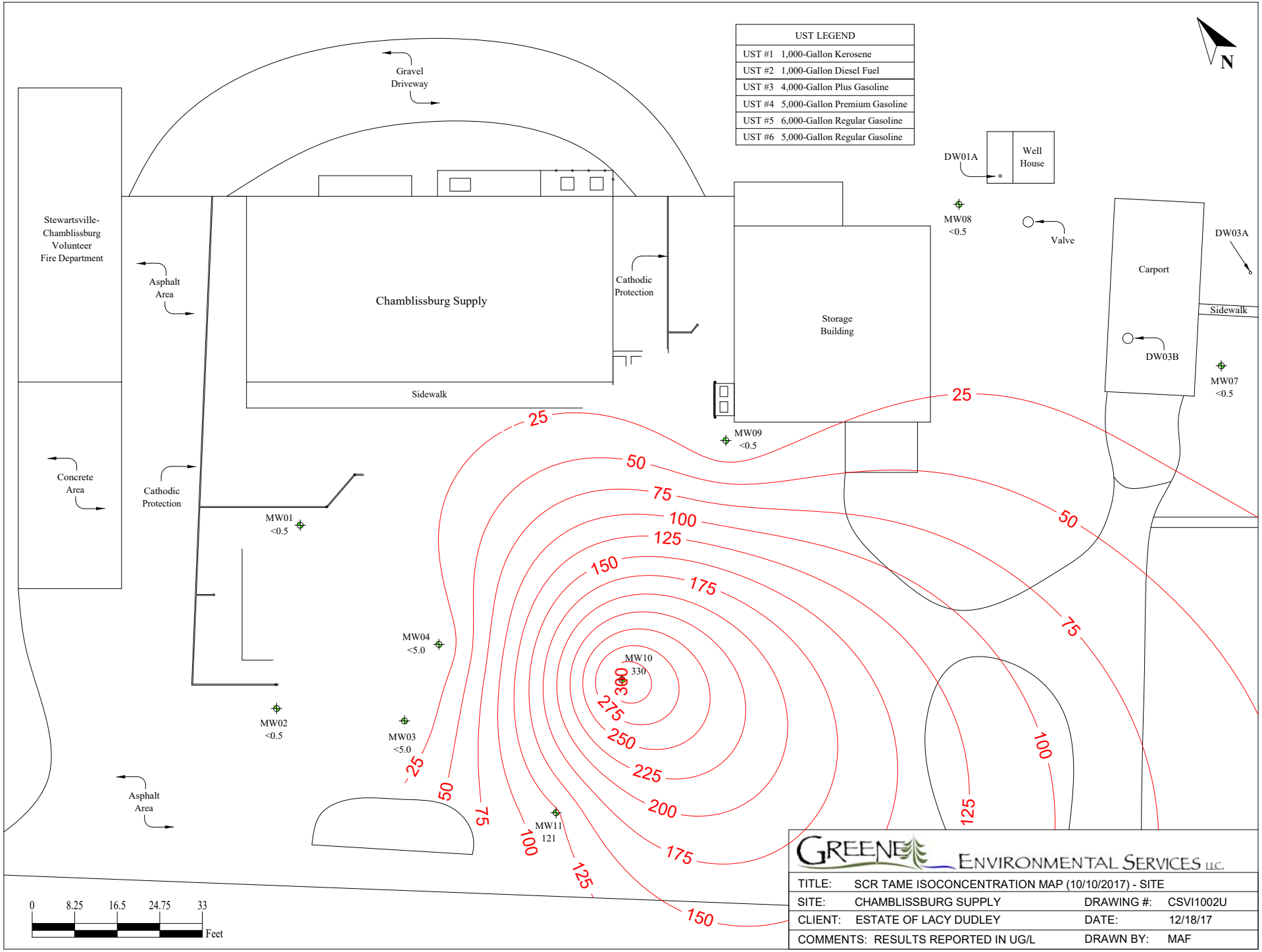

UST LEGEND
UST #1 1,000-Gallon Kerosene
UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Cathodic Protection
Sidewalk
Concrete Area
Cathodic Protection
Asphalt Area
DW01A
Well House
MW08 <2.5
Valve
DW03A
Carport
Sidewalk
DW03B
MW07 <2.5
MW09 151
MW01 4.53
MW02 <25.0
MW03 136
MW04 273
MW10 449
MW11 166
50
100
150
200
250
300
350
400
0 8.25 16.5 24.75 33 Feet
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: SCR DIPE ISOCONCENTRATION MAP (10/10/2017) - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002S
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/18/17
COMMENTS: RESULTS REPORTED IN UG/L
DRAWN BY: MAF

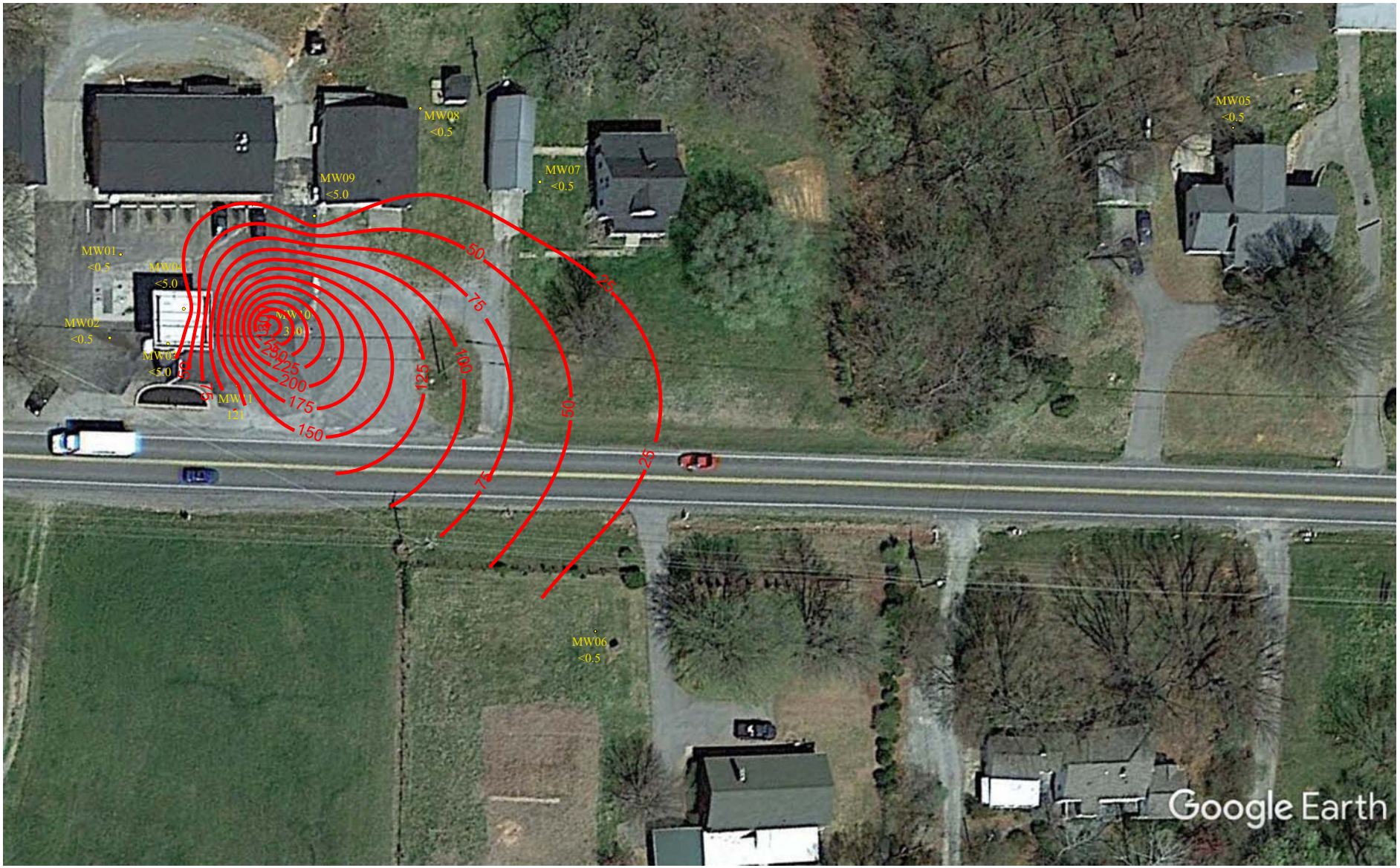


0 26.5 53 79.5 106 Feet

GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR DIPE ISOCONCENTRATION MAP (10/10/2017) - AERIAL		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002T
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:		DRAWN BY:	MAF

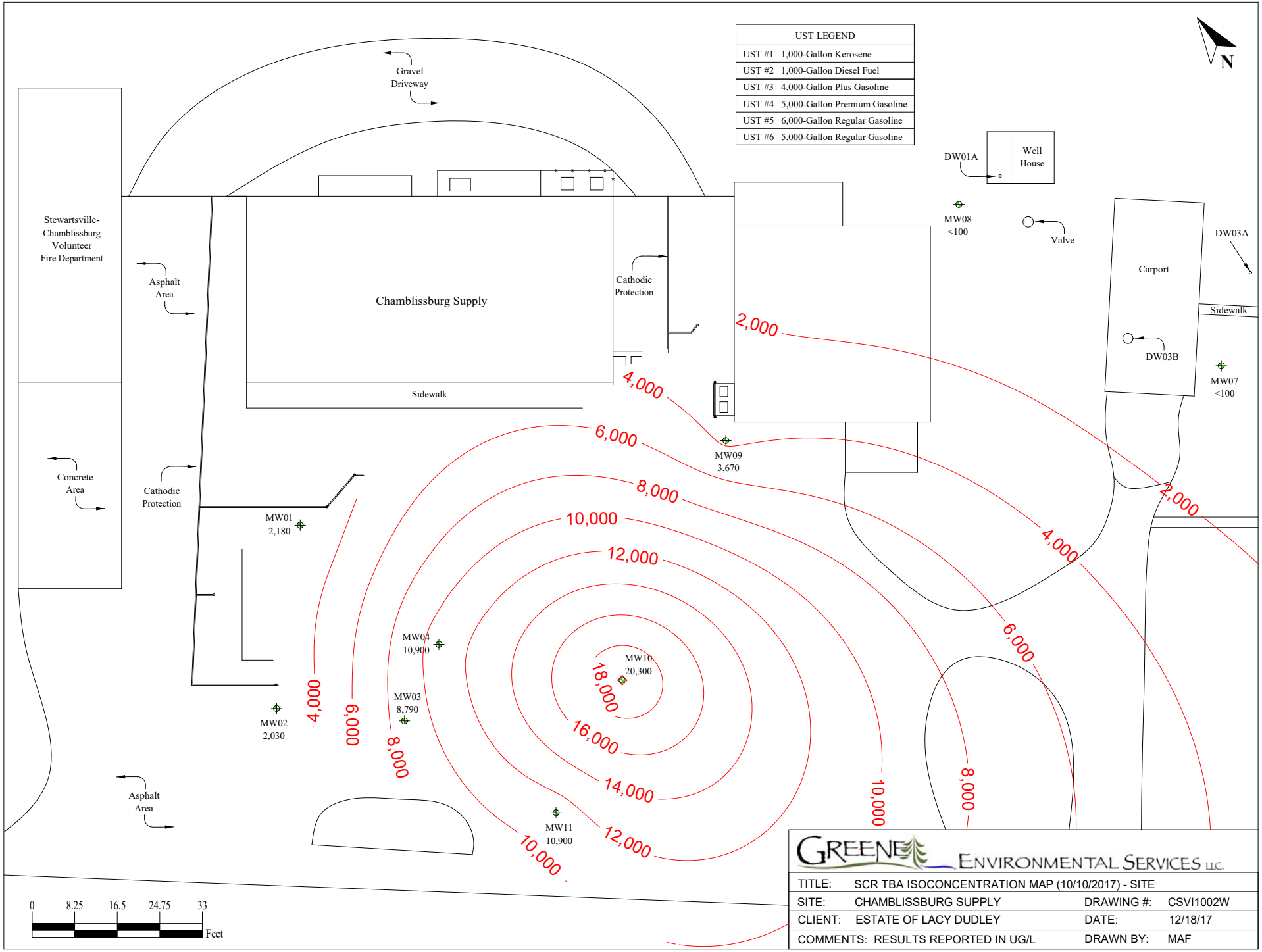

UST LEGEND
UST #1 1,000-Gallon Kerosene
UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Cathodic Protection
Sidewalk
Storage Building
Well House
DW01A
MW08 <0.5
Valve
Carport
DW03A
DW03B
MW07 <0.5
MW09 <0.5
Concrete Area
Cathodic Protection
MW01 <0.5
MW04 <5.0
MW10 330
MW02 <0.5
MW03 <5.0
MW11 121
Asphalt Area
25
50
75
100
125
150
175
200
225
250
275
300
0 8.25 16.5 24.75 33 Feet
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: SCR TAME ISOCONCENTRATION MAP (10/10/2017) - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002U
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/18/17
COMMENTS: RESULTS REPORTED IN UG/L
DRAWN BY: MAF

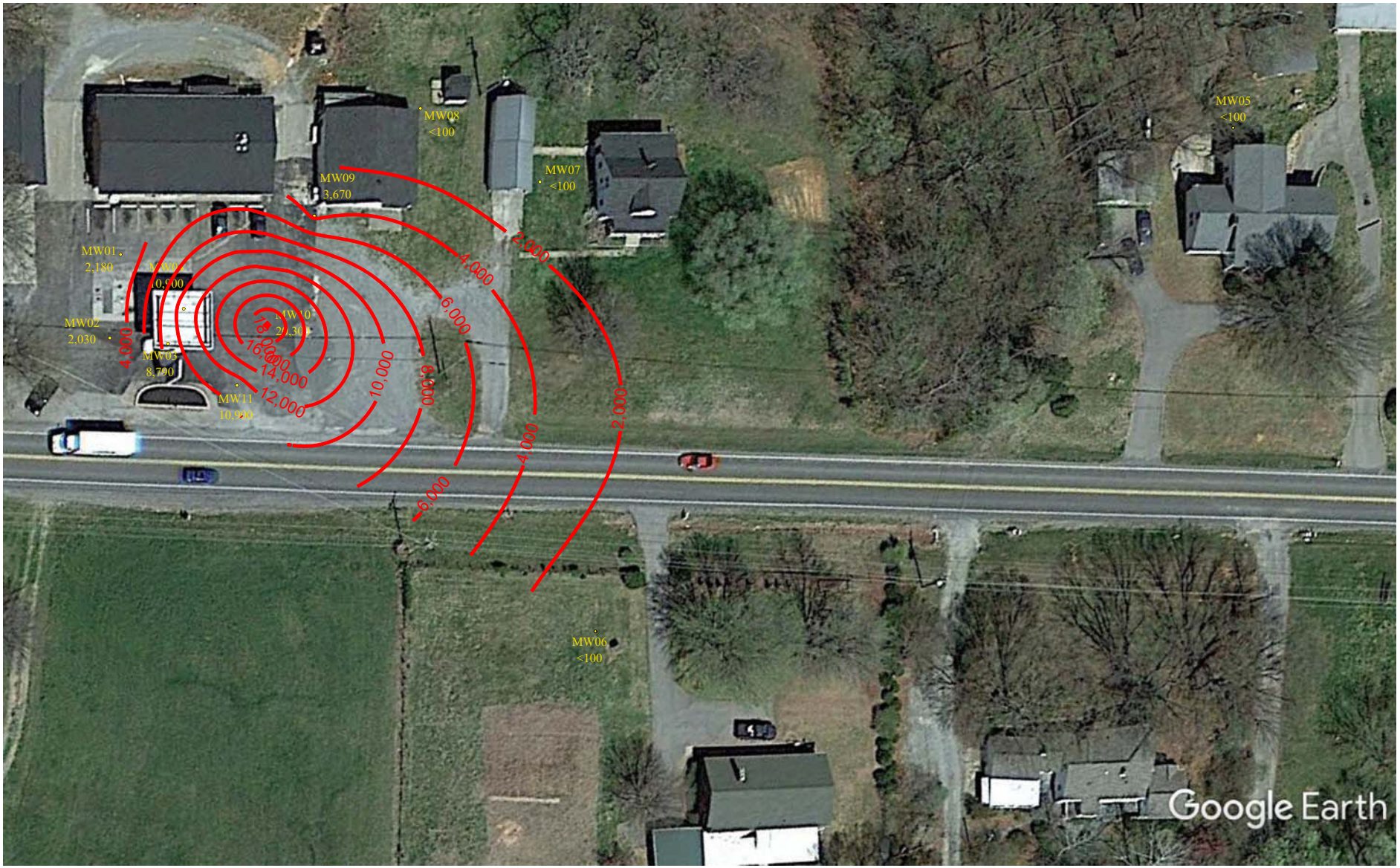


0 26.5 53 79.5 106 Feet

GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR TAME ISOCONCENTRATION MAP (10/10/2017) - AERIAL		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002V
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:		DRAWN BY:	MAF

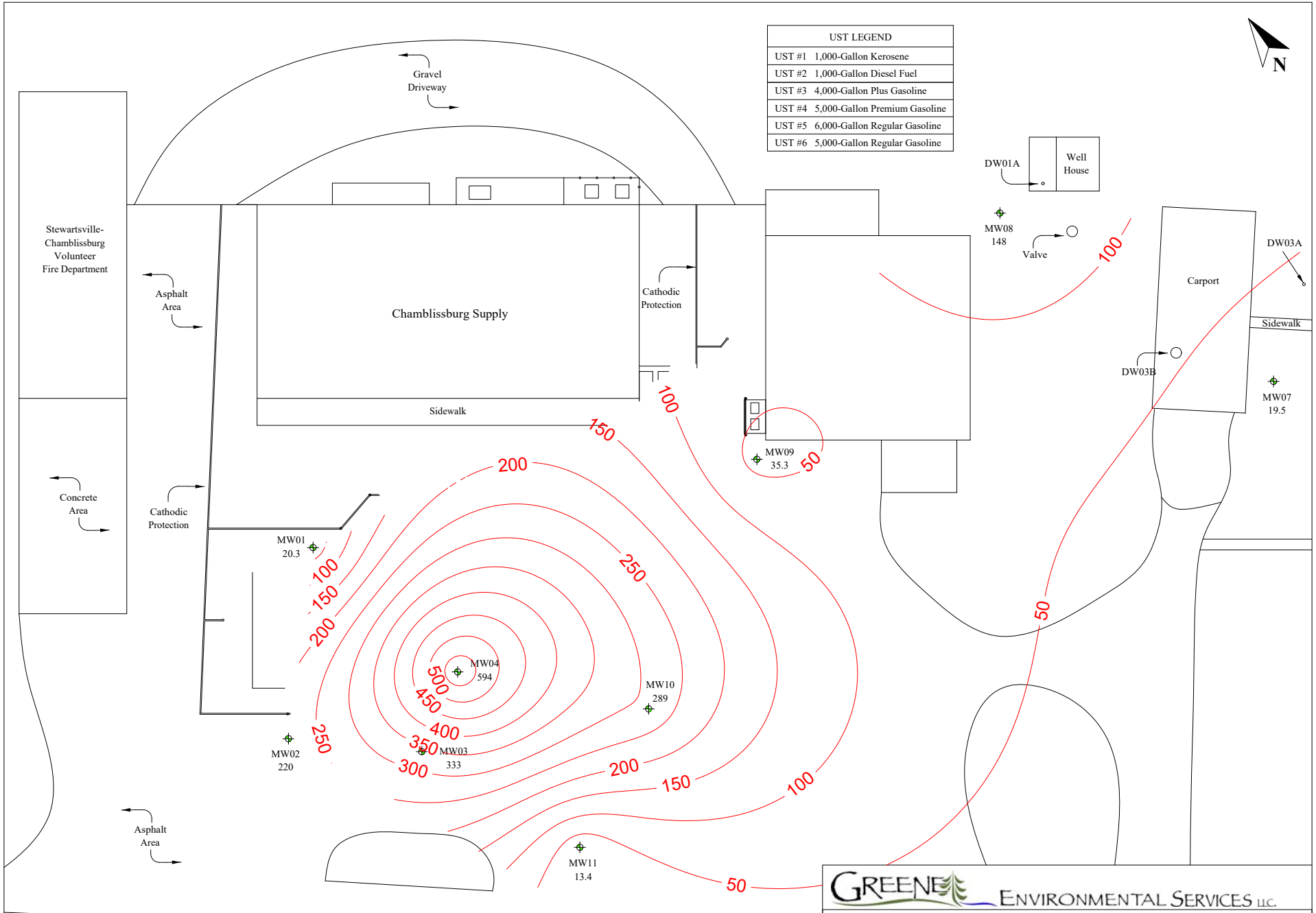

UST LEGEND
UST #1 1,000-Gallon Kerosene
UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Cathodic Protection
Sidewalk
Concrete Area
Cathodic Protection
Asphalt Area
DW01A
Well House
MW08 <100
Valve
DW03A
Carport
Sidewalk
DW03B
MW07 <100
MW09 3,670
MW01 2,180
MW02 2,030
MW03 8,790
MW04 10,900
MW10 20,300
MW11 10,900
2,000
4,000
6,000
8,000
10,000
12,000
14,000
16,000
18,000
0 8.25 16.5 24.75 33 Feet
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: SCR TBA ISOCONCENTRATION MAP (10/10/2017) - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002W
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/18/17
COMMENTS: RESULTS REPORTED IN UG/L
DRAWN BY: MAF



0 26.5 53 79.5 106 Feet

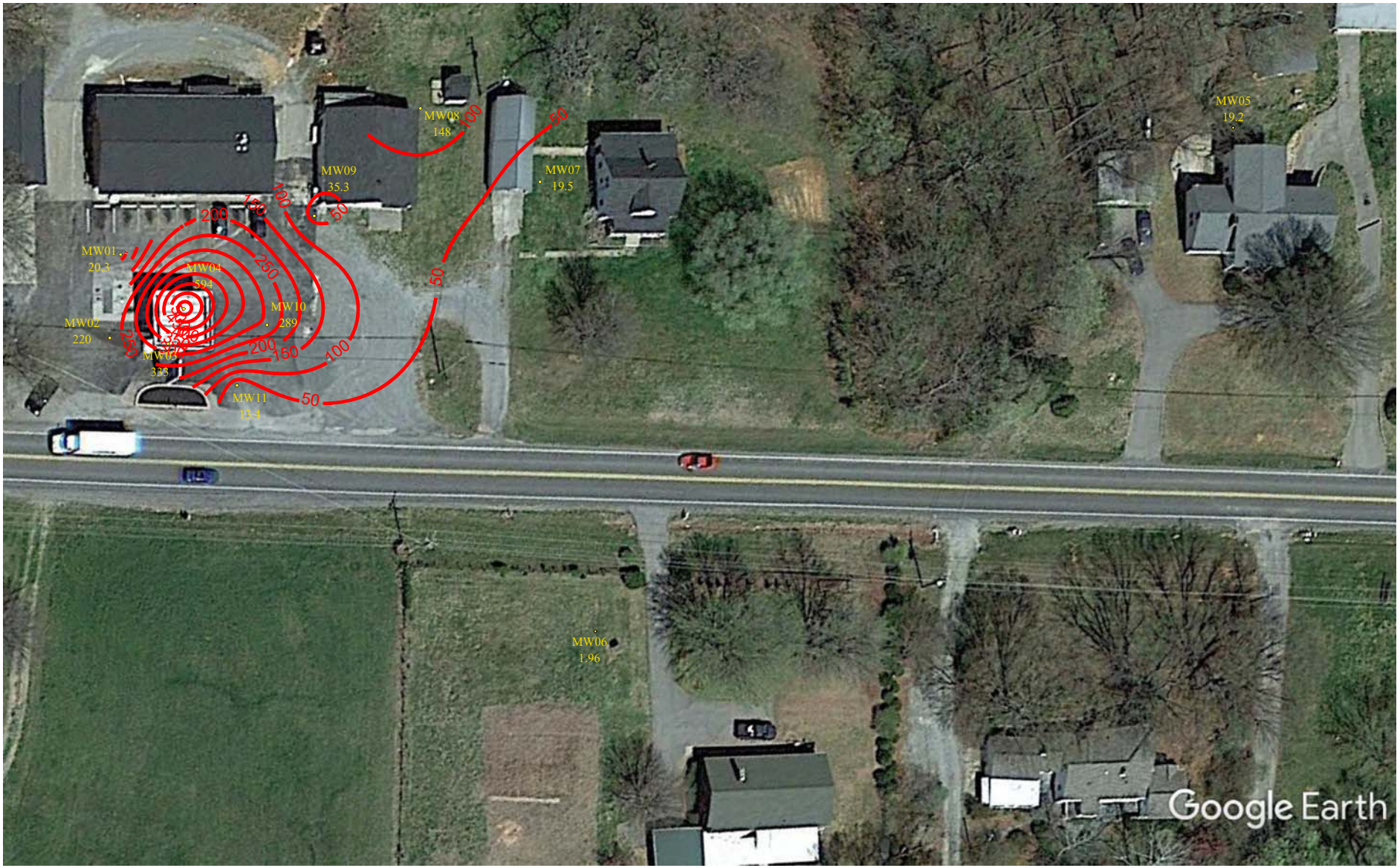
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR TBA ISOCONCENTRATION MAP (10/10/2017) - AERIAL		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002X
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:		DRAWN BY:	MAF



GREENE ENVIRONMENTAL SERVICES LLC.

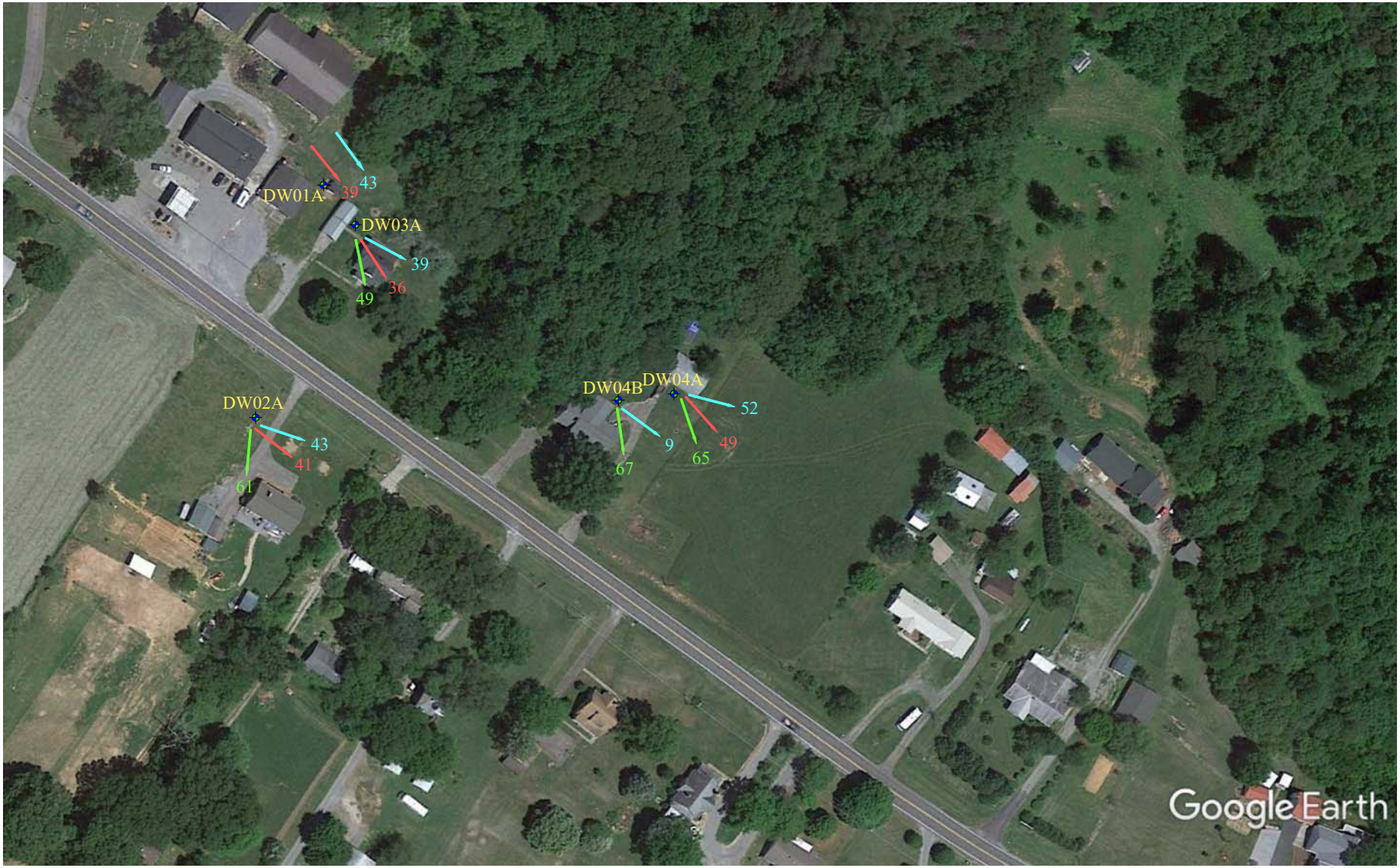
TITLE:	SCR TOTAL LEAD ISOCONCENTRATION MAP (10/10/2017) - SITE		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002Y
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:	RESULTS REPORTED IN UG/L	DRAWN BY:	MAF



0 26.5 53 79.5 106 Feet

GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR TOTAL LEAD ISOCONCENTRATION MAP (10/10/2017) - AERIAL		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002Z
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	12/18/17
COMMENTS:		DRAWN BY:	MAF



*The arrows represent the direction of dip.

*The number represents the dip angle.

FOLIATIONS

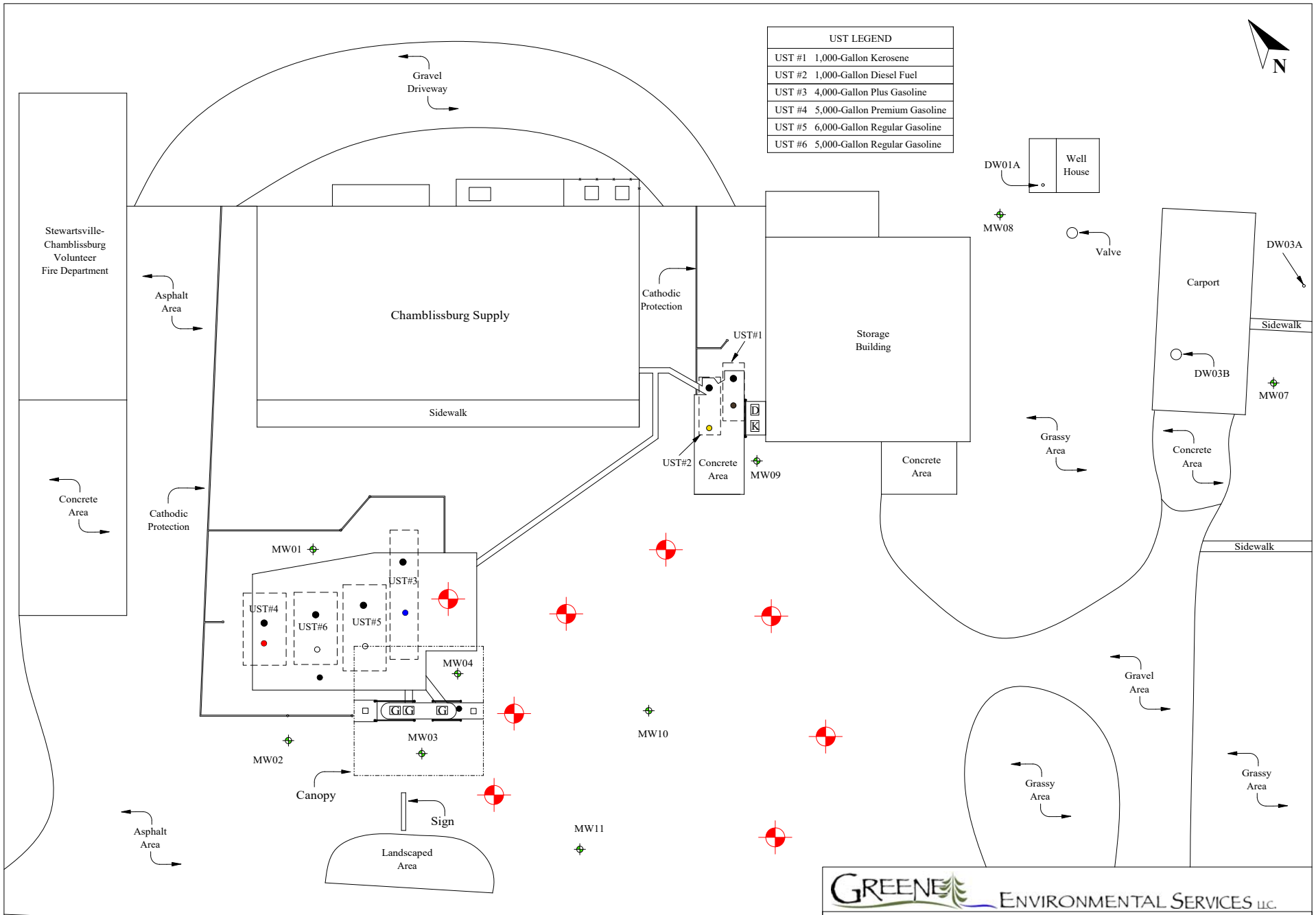
FRACTURE SET #1

FRACTURE SET #2

0 33 66 99 132 Feet

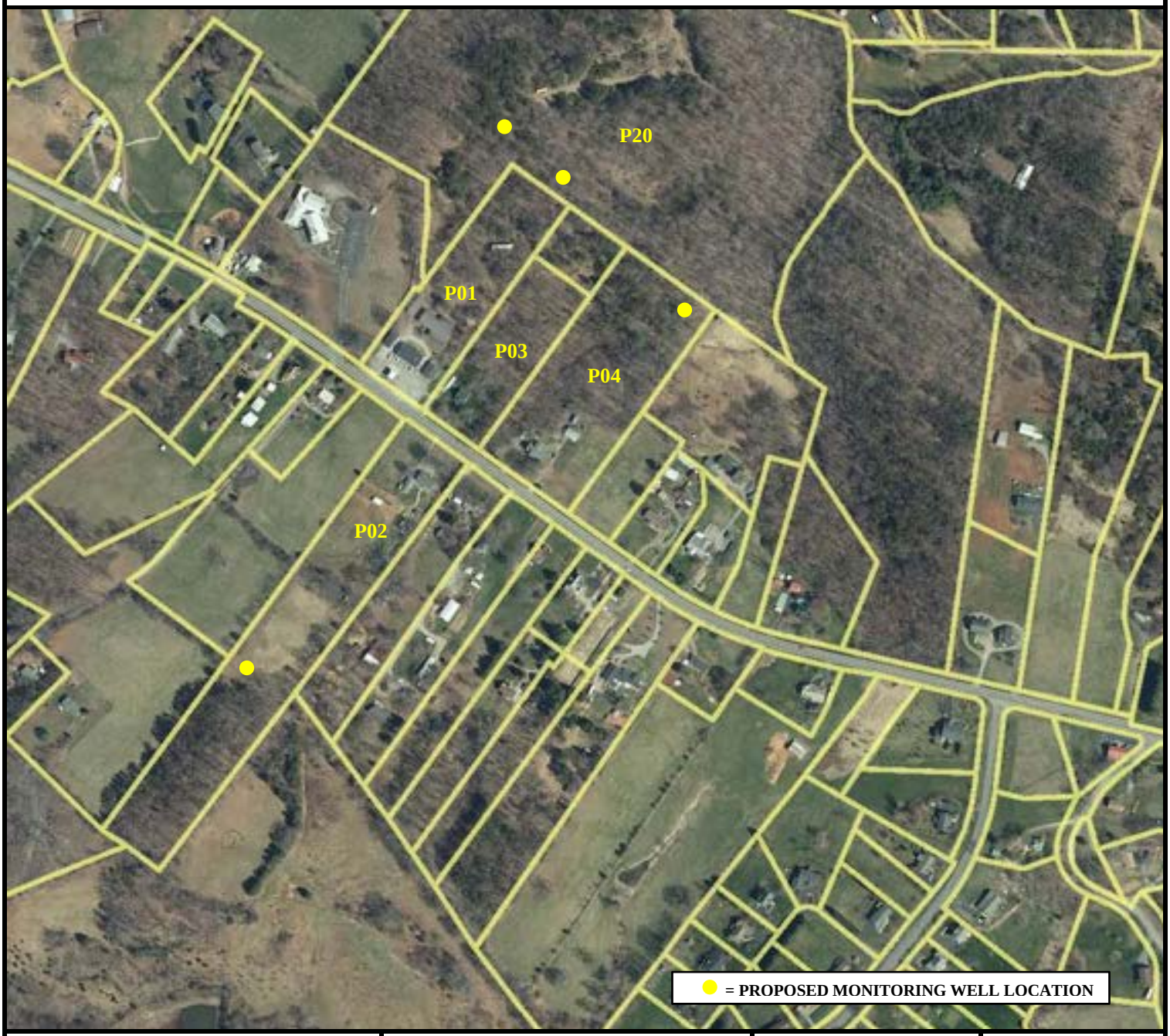
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SCR GEOPHYSICAL BOREHOLE LOGGING SUMMARY		
SITE:	CHAMBLISSBURG SUPPLY	DRAWING #:	CSVI1002AA
CLIENT:	ESTATE OF LACY DUDLEY	DATE:	01/31/18
COMMENTS:		DRAWN BY:	MAF


UST LEGEND
UST #1 1,000-Gallon Kerosene
UST #2 1,000-Gallon Diesel Fuel
UST #3 4,000-Gallon Plus Gasoline
UST #4 5,000-Gallon Premium Gasoline
UST #5 6,000-Gallon Regular Gasoline
UST #6 5,000-Gallon Regular Gasoline
N
Gravel Driveway
Stewartsville-Chamblissburg Volunteer Fire Department
Asphalt Area
Chamblissburg Supply
Sidewalk
Cathodic Protection
UST#1
UST#2
Concrete Area
MW09
Storage Building
Concrete Area
DW01A
Well House
MW08
Valve
Carport
DW03A
Sidewalk
DW03B
MW07
Grassy Area
Concrete Area
Concrete Area
Cathodic Protection
MW01
UST#3
UST#4
UST#6
UST#5
MW04
MW03
MW02
Canopy
Sign
Landscaped Area
Asphalt Area
MW10
MW11
Sidewalk
Gravel Area
Grassy Area
Grassy Area
0 8.25 16.5 24.75 33 Feet
= Proposed MW Location
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: PROPOSED MONITORING WELL LOCATION MAP - SITE
SITE: CHAMBLISSBURG SUPPLY
DRAWING #: CSVI1002BB
CLIENT: ESTATE OF LACY DUDLEY
DATE: 12/15/17
COMMENTS:
DRAWN BY: MAF

Proposed Deep Water Monitoring Well Location Map

Chamblissburg Supply
10625 Stewartsville Road
Vinton, VA 24179



GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596
Fax: 540-483-3381

www.greene-environmental.com

BEDFORD COUNTY, VIRGINIA

Source: Google Earth

Scale: Not to Scale

Project: SCR

Client: Estate of Lacy Dudley

Greene Job #: CSVI1002

Date: January 5, 2018

N
W E
S

Latitude:
037.257362°N
Longitude:
079.722368° W

APPENDIX C

Geologic Information

Soil Boring Logs/Monitoring Well Construction Diagrams
Water Well Completion Form – DW02A
Fracture Trace Analysis – Draper Aden Associates
Geophysical Borehole Logging – ARM Geophysics

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B01

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (1250, 2500, 3750)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B01-1 (0.5-5') Fine grained; red clay, petroleum odor; no moisture.	5.0	B01-1		1,970 / 13,200	4,737	
		B01-2 (5'-10') Fine grained; red sandy clay with some organic material present; strong petroleum odor; moisture evident approximately 5' to 6' bgs only.	10.0	B01-2		NA	4,117	
		B01-3 (10'-15') Fine grained; red sandy clay with some organic material present; strong petroleum odor; no moisture.	15.0	B01-3		NA	3,583	
		B01-4 (15'-20') Fine grained; sandy brown clay; strong petroleum odor; no moisture.	20.0	B01-4		NA	3,302	
		B01-5 (20'-25') Fine grained; brown sandy clay; strong petroleum odor; no moisture.	25.0	B01-5		NA	2,957	
		B01-6 (25'-30') Fine grained; brown clay with organic material present; strong petroleum odor; no moisture.	30.0	B01-6		NA	2,559	
		B01-7 (30'-32.5') Fine grained; brown clay; strong petroleum odor; no moisture. Soil boring B01 was advanced to rod refusal at 32.5 feet bgs in an attempt to encounter groundwater; however, groundwater was not identified.	32.5	B01-7		390 / 4,220	2,250	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B02

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (750, 1500, 2250)	Well Completion Details
0		Ground Surface	0.0					
		Asphalt	0.5					
1–4		***B02-1 (0.5-5')*** Fine grained; red clay, slight petroleum odor; no moisture.	5.0	B02-1		NA	1,818	
5–10		***B02-2 (5'-10')*** Fine grained; brown sandy clay with some larger rock fragments present; petroleum odor; no moisture.	10.0	B02-2		NA	643.9	
10–15		***B02-3 (10'-15')*** Fine grained; brown sandy clay with some larger rock fragments present; strong petroleum odor; no moisture.	15.0	B02-3		1,240 / 6,110	2,757	
15–20		***B02-4 (15'-20')*** Fine grained; gray to black sandy clay; strong petroleum odor; no moisture.	20.0	B02-4		511 / 4,600	2,115	
20		End of Borehole						
21–25								

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Sheet: 1 of 1

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B03

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) / (TPH-GRO)	VOC Concentration ppm (100, 200, 300)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B03-1 (0.5-5') Fine grained; brown to gray sandy clay, slight petroleum odor; no moisture.	5.0	B03-1		NA	163.3	
		B03-2 (5'-10') Fine grained; brown to gray weathered rock material (very hard), slight petroleum odor; no moisture.	10.0	B03-2		NA	198.5	
		B03-3 (10'-15') Fine grained; brown sandy clay; slight petroleum odor; no moisture.	15.0	B03-3		NA	118.8	
		B03-4 (15'-20') Fine grained; brown sandy clay; slight petroleum odor; no moisture.	20.0	B03-4		NA	141.0	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Sheet: 1 of 1

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B04

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (25, 50, 75)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B04-1 (0.5-5') Fine grained; brown sandy clay, no petroleum odor; no moisture.	5.0	B04-1		NA	57.9	
		B04-2 (5'-10') Fine grained; brown sandy clay, no petroleum odor; no moisture.	10.0	B04-2		NA	70.9	
		B04-3 (10'-15') Fine grained; brown clay with organic material present; no petroleum odor; no moisture.	15.0	B04-3		NA	87.7	
		B04-4 (15'-20') Fine grained; red to brown clay; slight petroleum odor; no moisture.	20.0	B04-4		ND / ND	99.9	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B05

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (25, 50, 75)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B05-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B05-1		NA	65.0	
		B05-2 (5'-10') Fine grained; brown clay, no petroleum odor; no moisture.	10.0	B05-2		NA	89.6	
		B05-3 (10'-15') Fine grained; brown clay with white sand; no petroleum odor; no moisture.	15.0	B05-3		NA	30.2	
		B05-4 (15'-20') Fine grained; white sand; no petroleum odor; no moisture.	20.0	B05-4		ND / ND	26.5	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B06

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (25, 50, 75)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B06-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B06-1		NA	32.7	
		B06-2 (5'-10') Fine grained; red clay, no petroleum odor; no moisture.	10.0	B06-2		NA	28.5	
		B06-3 (10'-15') Fine grained; dark brown sandy clay; no petroleum odor; no moisture.	15.0	B06-3		NA	21.8	
		B06-4 (15'-20') Fine grained; dark brown sandy clay; no petroleum odor; no moisture.	20.0	B06-4		NA	31.4	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B07

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (25, 50, 75)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B07-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B07-1		NA	19.1	
		B07-2 (5'-10') Fine grained; dark brown sandy clay; no petroleum odor; no moisture.	10.0	B07-2		NA	13.9	
		B07-3 (10'-15') Fine grained; dark brown sandy clay with organic material present; slight petroleum odor; no moisture.	15.0	B07-3		NA	9.3	
		B07-4 (15'-20') Fine grained; dark brown clay with white sand and organic material present; slight petroleum odor; no moisture.	20.0	B07-4		ND / ND	13.2	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B08

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (25, 50, 75)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B08-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B08-1		NA	5.5	
		B08-2 (5'-10') Fine grained; brown clay with organic material present; no petroleum odor; no moisture.	10.0	B08-2		NA	7.7	
		B08-3 (10'-15') Fine grained; brown clay with white sand; slight petroleum odor; no moisture.	15.0	B08-3		NA	5.8	
		B08-4 (15'-20') Fine grained; dark brown sandy clay; slight petroleum odor; no moisture.	20.0	B08-4		NA	0.1	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B09

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (25, 50, 75)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B09-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B09-1		NA	10.9	
		B09-2 (5'-10') Fine grained; brown clay with layers of white sand; no petroleum odor; no moisture.	10.0	B09-2		NA	2.0	
		B09-3 (10'-15') Fine grained; white sand; slight petroleum odor; no moisture.	15.0	B09-3		NA	3.2	
		B09-4 (15'-20') Fine grained; dark brown sandy clay with organic material present; slight petroleum odor; no moisture.	20.0	B09-4		NA	0.0	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B10

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) / (TPH-GRO)	VOC Concentration ppm (100, 200, 300)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B10-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B10-1		NA	0.0	
		B10-2 (5'-10') Fine grained; brown clay with organic material present; slight petroleum odor; no moisture.	10.0	B10-2		NA	0.0	
		B10-3 (10'-15') (10'-14'): Fine grained; brown clay with organic material present; slight petroleum odor; no moisture. (14'-15'): Fine grained; white sand; slight petroleum odor; no moisture.	15.0	B10-3		NA	2.6	
		B10-4 (15'-20') Fine grained; brown sandy clay with organic material present; petroleum odor; no moisture.	20.0	B10-4		ND / 93.6	334.8	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B11

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (500, 1000, 1500)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B11-1 (0.5-5') Fine grained; red clay, strong petroleum odor; no moisture.	5.0	B11-1		1,100 / 3,400	1,092	
		B11-2 (5'-10') Fine grained; red clay; strong petroleum odor; no moisture.	10.0	B11-2		NA	1,408	
		B11-3 (10'-15') Fine grained; dark brown sandy clay with organic material present; strong petroleum odor; no moisture.	15.0	B11-3		NA	1,173	
		B11-4 (15'-20') Fine grained; brown sandy clay with organic material present; strong petroleum odor; no moisture.	20.0	B11-4		1,030 / 10,300	1,043	
		Soil boring B11 was advanced to rod refusal at 31.75 feet bgs in an attempt to encounter groundwater. Soil samples were not collected during these additional activities and groundwater was not identified.	31.8					
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Sheet: 1 of 1

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B12

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (500, 1000, 1500)	Well Completion Details
0		Ground Surface	0.0					
		Asphalt	0.5					
1–5		***B12-1 (0.5-5')*** Fine grained; red to brown sandy clay, petroleum odor; no moisture.	5.0	B12-1		23.9 / 381	1,127	
5–10		***B12-2 (5'-10')*** Fine grained; red to brown sandy clay, petroleum odor; no moisture	10.0	B12-2		NA	1,251	
10–15		***B12-3 (10'-15')*** Fine grained; white sand; strong petroleum odor; no moisture.	15.0	B12-3		NA	1,205	
15–20		***B12-4 (15'-20')*** Fine grained; brown to gray sandy clay; strong petroleum odor; no moisture.	20.0	B12-4		6,930 / 25,900	1,183	
20		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B13

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (500, 1000, 1500)	Well Completion Details
0		Ground Surface	0.0					
		Asphalt	0.5					
1–5		***B13-1 (0.5-5')*** Fine grained; red clay, slight petroleum odor; no moisture.	5.0	B13-1		3,780 / 1,840	1,234	
5–10		***B13-2 (5'-10')*** Fine grained; brown sandy clay, slight petroleum odor; no moisture.	10.0	B13-2		NA	1,270	
10–15		***B13-3 (10'-15')*** Fine grained; brown sandy clay with organic material present; slight petroleum odor; no moisture.	15.0	B13-3		NA	515.7	
15–20		***B13-4 (15'-20')*** Fine grained; brown sandy clay with organic material present; petroleum odor; no moisture.	20.0	B13-4		6,880 / 1,420	367.0	
20		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Sheet: 1 of 1

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B14

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (50, 100, 150)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B14-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B14-1		NA	104.8	
		B14-2 (5'-10') Fine grained; brown clayey sand, no petroleum odor; no moisture.	10.0	B14-2		NA	38.6	
		B14-3 (10'-15') Fine grained; brown clayey sand, no petroleum odor; no moisture.	15.0	B14-3		NA	22.0	
		B14-4 (15'-20') Fine grained; brown to gray clayey sand, no petroleum odor; no moisture.	20.0	B14-4		NA	16.6	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road
Rocky Mount, Virginia 24151

Project No: CSVI1001

Project: RELEASE INVESTIGATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B15

Diagram of Monitoring Well: NA

Geologist: CALEB HARRISON

Generation Date: 07/03/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-DRO) (TPH-GRO)	VOC Concentration ppm (25, 50, 75)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B15-1 (0.5-5') Fine grained; red clay, no petroleum odor; no moisture.	5.0	B15-1		NA	14.3	
		B15-2 (5'-10') Fine grained; brown clayey sand, no petroleum odor; no moisture.	10.0	B15-2		NA	14.1	
		B15-3 (10'-15') Fine grained; brown clayey sand, slight petroleum odor; no moisture.	15.0	B15-3		NA	19.0	
		B15-4 (15'-20') Fine grained; brown to gray clayey sand, petroleum odor; no moisture.	20.0	B15-4		506 / ND	88.5	
		End of Borehole						

Drill Method: DIRECT PUSH

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 06/30/2017

Hole Size: 2.5 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

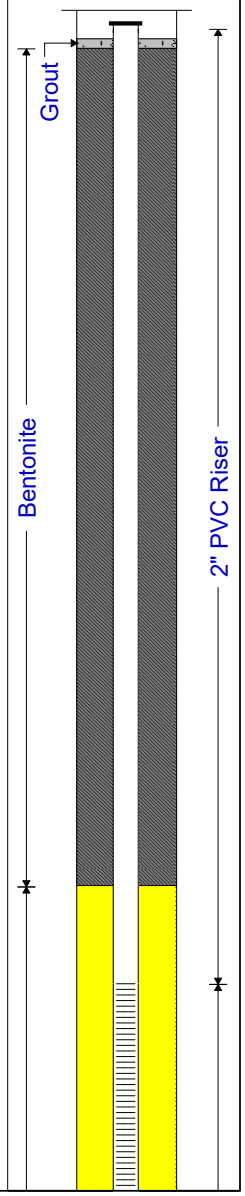
Log of Borehole: B16

Diagram of Monitoring Well: MW01

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (2.5, 5, 7.5)	Well Completion Details
		Ground Surface	0.0					
0		**Asphalt**	0.5					
1–5		**B16-1 (0.5-5')** Fine grained; red clay; no petroleum odor; no moisture.	5.0	B16-1		NA	0.9	
5–10		**B16-2 (5'-10')** Fine grained; brownish-red; silty/sandy clay; no petroleum odor; no moisture.	10.0	B16-2		NA	0.0	
10–15		**B16-3 (10'-15')** (10'-11.5'): Fine grained; light brown clay (11.5'-15'): Fine grained; light brown clay with white weathered rock material; no petroleum odor; no moisture.	15.0	B16-3		NA	0.0	
15–20		**B16-4 (15'-20')** Fine grained; light brown clay with white weathered rock material; some black organic material present; no petroleum odor; no moisture.	20.0	B16-4		NA	0.0	
20–25		**B16-5 (20'-25')** (20'-23.5'): Same as above. (23.5'-25'): Fine grained; light brown; silty/sandy clay with larger fragments of quartz present; slight petroleum odor; no moisture.	25.0	B16-5		NA	0.9	
25–30		**B16-6 (25'-30')** Fine grained; light brown clay with white weatherd rock material and black organic material present; slight petroleum odor; no moisture.	30.0	B16-6		NA	2.8, 0.0	



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B16

Diagram of Monitoring Well: MW01

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

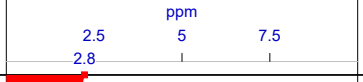
Depth	Description	Depth
31	***B16-7 (30'-32')*** Fine grained; dark brown; weathered rock material; slight petroleum odor; no moisture.	
32	Obtained rod refusal at approximately 32.0 feet bgs due to suspected weathered rock.	32.0
33	***B16-8 (35')*** Converted drill rig to HSA.	
34		
35	Fine grained; dark brown; weathered rock material with mica present; slight to no petroleum odor; no moisture.	35.0
36	***B16-9 (40')*** Fine grained; brown to dark brown; weathered rock material; slight petroleum odor; no moisture.	
37		
38		
39		
40		40.0
41	***B16-10 (45')*** Fine grained; dark brown to brown; weathered rock material; slight to no petroleum odor; no moisture.	
42		
43		
44		
45		45.0
46	***B16-11 (50')*** Fine grained; dark brown to brown; weathered rock material; no petroleum odor; no moisture.	
47		
48		
49		
50		50.0
51	***B16-12 (55')*** Fine grained; dark brown to brown; weathered rock material; no petroleum odor; no moisture.	
52	Terminated soil boring B16 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B16 to monitoring well MW01.	
53		
54		
55		55.0
56	End of Borehole	
57		
58		
59		
60		

SAMPLE

Number	Type	Lab Results (TPH-GRO)
B16-7		NA
B16-8		1.7
B16-9		NA
B16-10		ND
B16-11		NA
B16-12		NA

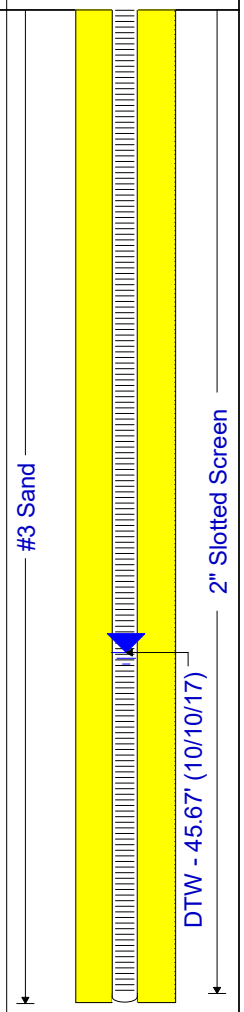
PID READINGS

VOC Concentration ppm



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B17

Diagram of Monitoring Well: MW02

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

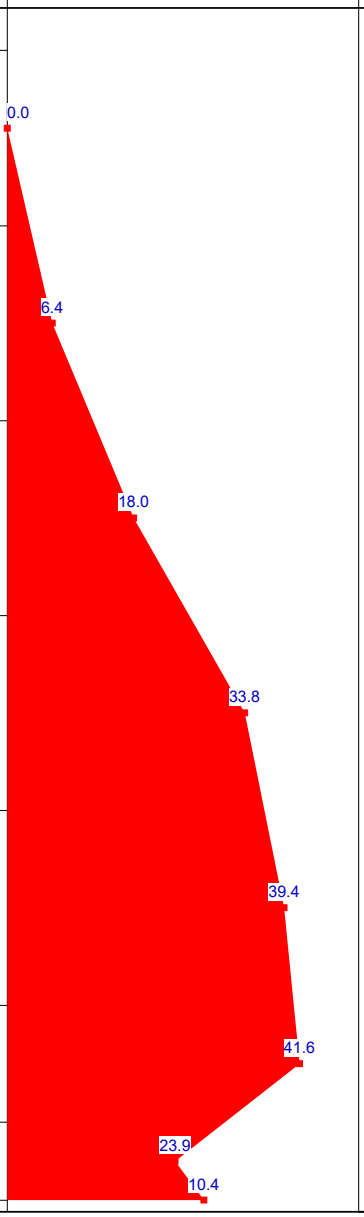
Depth	Description	Depth
	Ground Surface	0.0
	Asphalt	0.5
	B17-1 (0.5-5') Fine to medium grained; mottled reddish brown to tan; silty/sandy clay with small rock fragments; no petroleum odor; no moisture.	5.0
	B17-2 (5'-10') (5'-9'): Same as above. (9'-10'): Medium to fine grained; white silt with rock fragments; no petroleum odor; no moisture.	10.0
	B17-3 (10'-15') Medium to fine grained; white silt with rock fragments; slight petroleum odor; no moisture.	15.0
	B17-4 (15'-20') Fine grained; mottled white to brown to reddish brown; silty/sandy clay with weathered material and rock fragments; petroleum odor; no moisture.	20.0
	B17-5 (20'-25') Fine grained; mottled white to brown to tan; silty/fine sand with some clay and rock fragments; petroleum odor; no moisture.	25.0
	B17-6 (25'-28') Fine graind; silty/fine sand with some clay and rock fragments; petroleum odor; no moisture. Obtained rod refusal at approximately 28.0 feet bgs due to suspected weathered rock.	28.0
		30.0

SAMPLE

Number	Type	Lab Results (TPH-GRO)
B17-1		NA
B17-2		NA
B17-3		ND
B17-4		ND
B17-5		ND
B17-6		NA
B17-7		ND

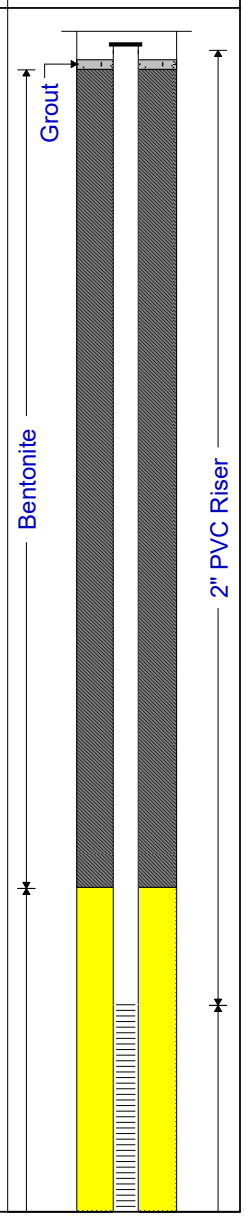
PID READINGS

VOC Concentration ppm (12.5, 25, 37.5)



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B17

Diagram of Monitoring Well: MW02

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

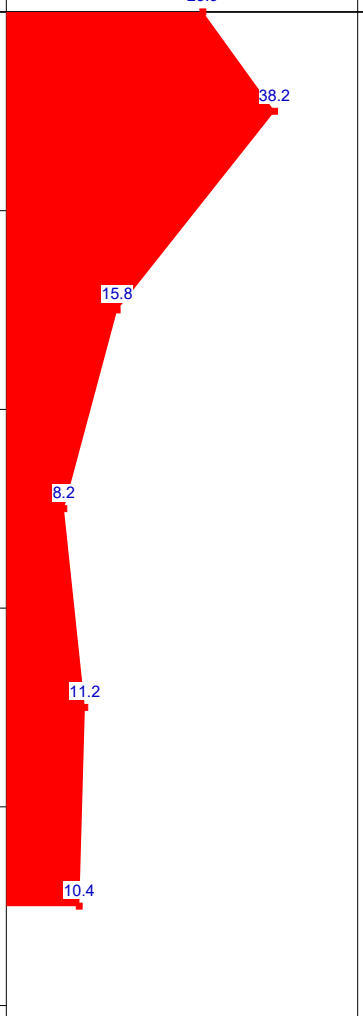
Depth	Description	Depth
31–35	***B17-7 (28'-30')*** Converted drill rig to HSA. Fine grained; silty/fine sand and weathered rock material; petroleum odor; no moisture. ***B17-8 (35')*** Fine grained; silty/fine sand and weathered rock material; strong petroleum odor; no moisture.	35.0
35–40	***B17-9 (40')*** Fine grained; dark brown; weathered rock material; strong petroleum odor; no moisture.	40.0
40–45	***B17-10 (45')*** Fine grained; dark brown; weathered rock material; strong petroleum odor; no moisture.	45.0
45–50	***B17-11 (50')*** Fine grained; dark brown; weathered rock material; strong petroleum odor; moisture evident.	50.0
50–55	***B17-12 (55')*** Fine grained; dark brown; weathered rock material; strong petroleum odor; moisture evident. Terminated soil boring B17 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B17 to monitoring well MW02.	55.0
55–60	End of Borehole	

SAMPLE

Number	Type	Lab Results (TPH-GRO)
B17-8		ND
B17-9		ND
B17-10		ND
B17-11		NA
B17-12		NA

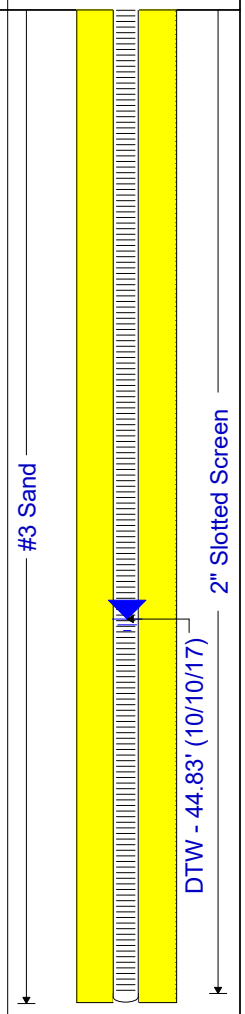
PID READINGS

VOC Concentration ppm



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B18

Diagram of Monitoring Well: MW03

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (1000, 2000, 3000)	Well Completion Details
		Ground Surface	0.0					
0		**Asphalt**	0.5					
1–5		**B18-1 (0.5-5')** Fine-grained; reddish brown; silty/sandy clay; strong petroleum odor; no moisture.	5.0	B18-1		9,570	3,291	Grout
5–10		**B18-2 (5'-10')** Fine-grained; reddish brown to brown; silty fine sand with rock fragments; strong petroleum odor; no moisture.	10.0	B18-2		15,700	2,067	Bentonite
10–15		**B18-3 (10'-15')** Fine-grained; reddish brown to brown; silty fine sand with rock fragments; strong petroleum odor; no moisture.	15.0	B18-3		936	1,951	2" PVC Riser
15–20		**B18-4 (15'-20')** Fine-grained; reddish brown to tan; silty/sandy clay with mica present; strong petroleum odor; no moisture.	20.0	B18-4		3,170	1,957	
20–25		**B18-5 (20'-25')** Fine-grained; red to black to brown; weathered material with silty/fine sand and mica; strong petroleum odor; no moisture.	25.0	B18-5		8,510	1,458	
25–28		**B18-6 (25'-30')** Fine graind; silty/fine sand with some clay and rock fragments; petroleum odor; no moisture.	28.0	B18-6		3,910	1,631	
28–30			30.0				1,341	

Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017 - 09/20/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

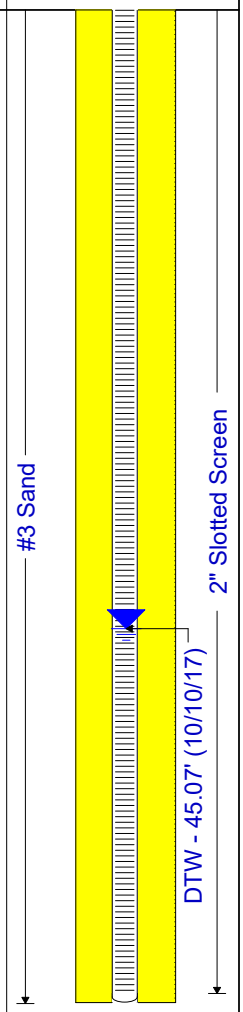
Log of Borehole: B18

Diagram of Monitoring Well: MW03

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (1000, 2000, 3000)	Well Completion Details
31–32		***B18-7 (30'-32')*** Fine-grained; red to black to brown; weathered material with silty/fine sand and mica; strong petroleum odor; no moisture. Obtained rod refusal at approximately 32.0 feet bgs due to suspected weathered rock.		B18-7		NA	1,631; 1,838	
33–35		***B18-8 (35')*** Converted drill rig to HSA. Fine grained; brown to dark brown; silty/fine sand and weathered rock material; strong petroleum odor; no moisture.	35.0	B18-8		2,830	1,185	
36–40		***B18-9 (40')*** Fine grained; brown to dark brown; silty/fine sand and weathered rock material; smaller rock fragments present; strong petroleum odor; no moisture.	40.0	B18-9		680	1,372	
41–45		***B18-10 (45')*** Fine grained; brown to dark brown; silty/fine sand and weathered rock material; smaller rock fragments present; strong petroleum odor; no moisture.	45.0	B18-10		3,610	1,320	
46–50		***B18-11 (50')*** Fine grained; dark brown; silty fine sand; strong petroleum odor; moisture evident.	50.0	B18-11		NA	1,257	
51–55		***B18-12 (55')*** Fine grained; dark brown; silty fine sand; strong petroleum odor; moisture evident. Terminated soil boring B18 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B18 to monitoring well MW03.	55.0	B18-12		NA	1,341	
55		End of Borehole						



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017 - 09/20/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

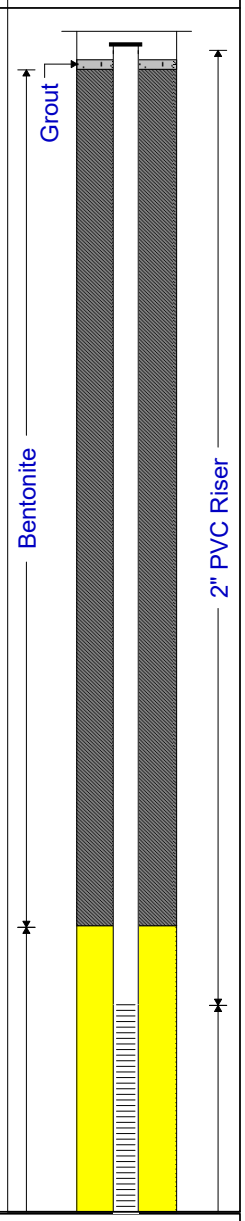
Log of Borehole: B19

Diagram of Monitoring Well: MW04

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (1000, 2000, 3000)	Well Completion Details
		Ground Surface	0.0					
0		**Asphalt**	0.5					
1–5		**B19-1 (0.5-5')** Fine-grained; reddish brown; silty/sandy clay; strong petroleum odor; no moisture.	5.0	B19-1		9,060	1,915	
5–10		**B19-2 (5'-10')** Fine-grained; reddish brown to brown; silty/sandy clay with mica; strong petroleum odor; no moisture.	10.0	B19-2		4,580	1,858	
10–15		**B19-3 (10'-15')** Fine-grained; reddish brown to brown; silty/sandy clay with mica; strong petroleum odor; no moisture.	15.0	B19-3		12,600	1,668	
15–20		**B19-4 (15'-20')** Fine-grained; brown to reddish brown to black; silty/sandy clay with weathered material; strong petroleum odor; no moisture.	20.0	B19-4		8,100	1,743	
20–25		**B19-5 (20'-25')** Fine-grained; brown to reddish brown to black; silty/sandy clay with weathered material; strong petroleum odor; no moisture.	25.0	B19-5		8,510	1,682	
25–28		**B19-6 (25'-30')** Fine-grained; brown to reddish brown to black; silty/sandy clay with weathered material; strong petroleum odor; no moisture.	28.0	B19-6		5,450	1,658	
28–30			30.0				1,563	



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017 - 09/21/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B19

Diagram of Monitoring Well: MW04

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

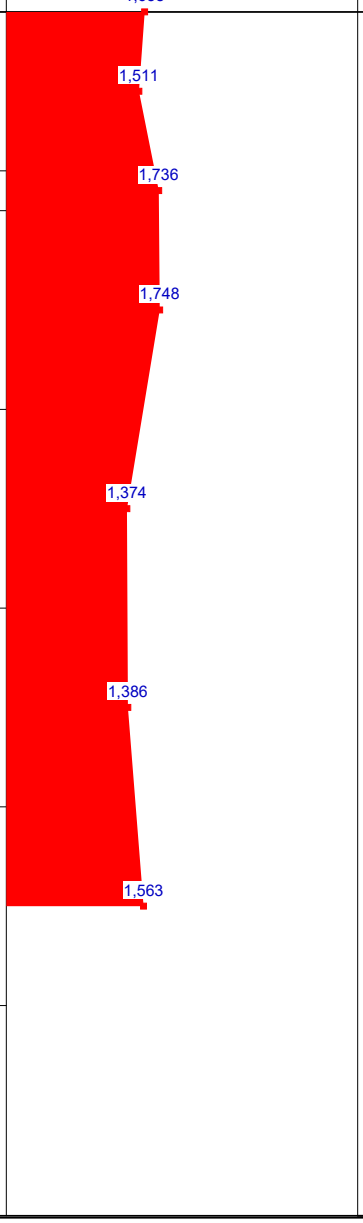
Depth	Description	Depth
	B19-7 (30'-34') Fine-grained; brown to black to tan; weathered material with quartz fragmetns evident; strong petroleum odor; no moisture. Obtained rod refusal at approximately 34.0 feet bgs due to suspected weathered rock.	
	B19-8 (35') Converted drill rig to HSA. Fine grained; brown; weathered material with silty fine sand; strong petroleum odor; no moisture.	35.0
	B19-9 (40') Fine grained; brown; weathered material with silty fine sand; strong petroleum odor; no moisture.	40.0
	B19-10 (45') Fine grained; dark brown; weathered material with small rock fragments; strong petroleum odor; slight moisture.	45.0
	B19-11 (50') Fine grained; dark brown; weathered material with small rock fragments; strong petroleum odor; moisture evident.	50.0
	B19-12 (55') Fine grained; dark brown; weathered material with silty fine sand; strong petroleum odor; moisture evident. Terminated soil boring B19 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B19 to monitoring well MW04.	55.0
	End of Borehole	

SAMPLE

Number	Lab Results (TPH-GRO)
B19-7	5,830
B19-8	NA
B19-9	2,630
B19-10	637
B19-11	NA
B19-12	NA

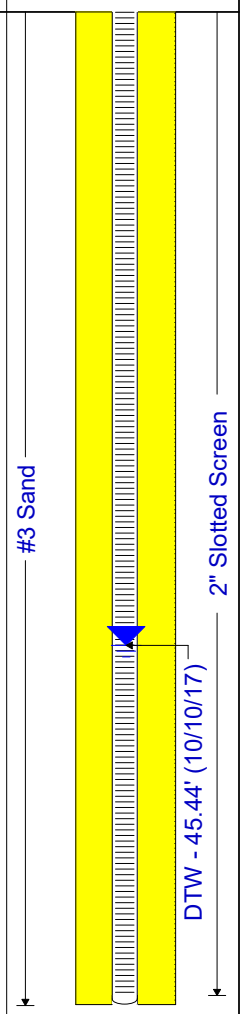
PID READINGS

VOC Concentration ppm



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/18/2017 - 09/21/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

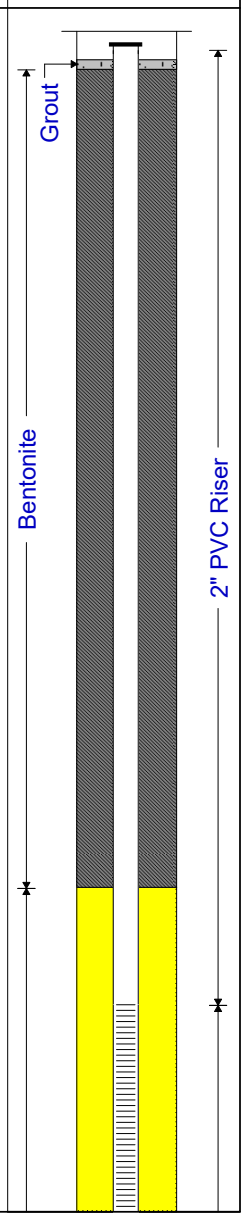
Log of Borehole: B20

Diagram of Monitoring Well: MW05

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (2.5, 5, 7.5)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B20-1 (0.5-5') Fine-grained; reddish brown clay; no petroleum odor; no moisture.	5.0	B20-1		NA	0.0	
		B20-2 (5'-10') Fine-grained; mottled reddish brown to brown to black; silty/sandy clay with fine/silty sand; no petroleum odor; no moisture.	10.0	B20-2		NA	0.0	
		B20-3 (10'-15') Fine-grained; mottled brown to reddish brown to tan; fine silty sand; no petroleum odor; no moisture.	15.0	B20-3		NA	0.0	
		B20-4 (15'-20') Fine-grained; mottled brown to tan to white; fine silty/sandy clay; no petroleum odor; no moisture.	20.0	B20-4		NA	0.0	
		B20-5 (20'-25') Fine-grained; mottled brown to white to gray; silty fine sand; no petroleum odor; no moisture.	25.0	B20-5		NA	0.0	
		B20-6 (25'-28') Fine-grained; mottled brown to white to gray; silty fine sand with weathered material present; no petroleum odor; no moisture. Obtained rod refusal at approximately 28.0 feet bgs due to suspected weathered rock.	28.0	B20-6		NA	0.0	
			30.0	B20-7		NA	0.0	



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/19/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

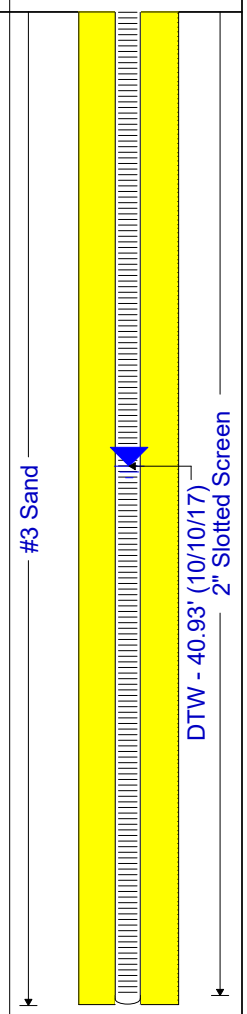
Log of Borehole: B20

Diagram of Monitoring Well: MW05

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (2.5, 5, 7.5)	Well Completion Details
31–34		***B20-7 (30')*** Converted drill rig to HSA. Fine-grained; silty/fine sand with weathered material present; no petroleum odor; no moisture. ***B20-8 (35')*** Fine-grained; silty/fine sand with weathered material present; no petroleum odor; no moisture.	35.0	B20-8		1.34	0.0	
35–40		***B20-9 (40')*** Fine grained; brown; silty/fine sand with weathered material present; no petroleum odor; no moisture.	40.0	B20-9		NA	0.0	
40–45		***B20-10 (45')*** Fine grained; brown; silty/fine sand with weathered material present; no petroleum odor; slight moisture.	45.0	B20-10		ND	0.0	
45–50		***B20-11 (50')*** Fine grained; brown; silty/fine sand with weathered material present; no petroleum odor; moisture evident.	50.0	B20-11		NA	0.0	
50–55		***B20-12 (55')*** Fine grained; brown; silty/fine sand with weathered material present; no petroleum odor; moisture evident. Terminated soil boring B20 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B20 to monitoring well MW05.	55.0	B20-12		NA	0.0	
55–60		End of Borehole						



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/19/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

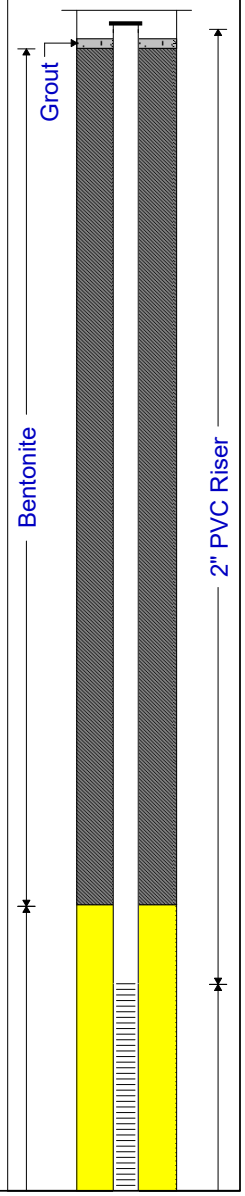
Log of Borehole: B21

Diagram of Monitoring Well: MW06

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm 2.5 5 7.5	Well Completion Details
		Ground Surface	0.0					
0		**Asphalt**	0.5					
1–5		**B21-1 (0.5-5')** Fine-grained; reddish brown silty/sandy clay; no petroleum odor; no moisture.	5.0	B21-1		NA	0.0	
5–10		**B21-2 (5'-10')** Fine-grained; brown to reddish brown; silty/sandy clay; no petroleum odor; no moisture.	10.0	B21-2		NA	0.0	
10–15		**B21-3 (10'-15')** Fine-grained; mottled brown to tan to white; silty/fine sand with some weathered material and mica present; no petroleum odor; no moisture.	15.0	B21-3		NA	0.0	
15–20		**B21-4 (15'-20')** Fine-grained; mottled brown to tan to white; silty/fine sand with some weathered material, mica and quartz fragments present; no petroleum odor; no moisture.	20.0	B21-4		NA	0.0	
20–25		**B21-5 (20'-25')** Fine-grained; mottled brown to black to tan; silty/fine sand with weathered material and small rock fragments present; no petroleum odor; no moisture.	25.0	B21-5		NA	0.0	
25–30		**B21-6 (30')** Obtained rod refusal at approximately 29.0 feet bgs due to suspected weathered rock. No recovery. Switched to HSA. Sample collected from auger cuttings. Fine-grained; brown; fine/silty sand with weathered material present; no petroleum odor; no moisture.	30.0	B21-6		NA	0.0 / 0.7	



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/19/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

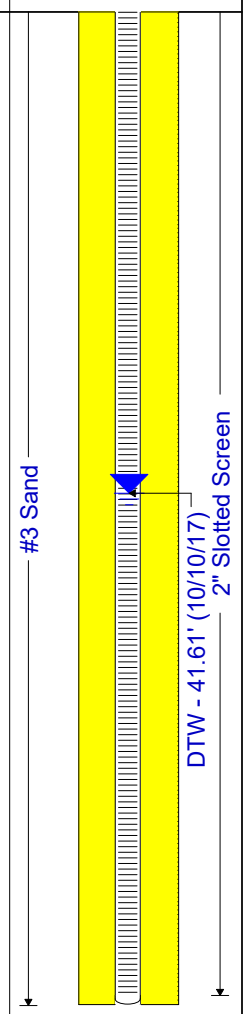
Log of Borehole: B21

Diagram of Monitoring Well: MW06

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (2.5, 5, 7.5)	Well Completion Details
31–34		***B21-7 (35')*** Fine-grained; brown; fine/silty sand with weathered material present; no petroleum odor; no moisture.	35.0	B21-7		ND	0.0	
35–38		***B21-8 (40')*** Fine-grained; brown to dark brown; silty/fine sand with weathered material present; no petroleum odor; no moisture.	40.0	B21-8		NA	0.0	
40–43		***B21-9 (45')*** Fine-grained; brown to dark brown; silty/fine sand with weathered material present; no petroleum odor; slight moisture.	45.0	B21-9		ND	0.0	
45–48		***B21-10 (50')*** Fine grained; brown to dark brown; fine/silty sand with weathered material present; no petroleum odor; moisture evident.	50.0	B21-10		ND	0.0	
50–54		***B21-11 (55')*** Fine grained; brown to dark brown; fine/silty sand with weathered material present; no petroleum odor; moisture evident. Terminated soil boring B21 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B21 to monitoring well MW06.	55.0	B21-11		NA	0.7	
55–60		End of Borehole						



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/19/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

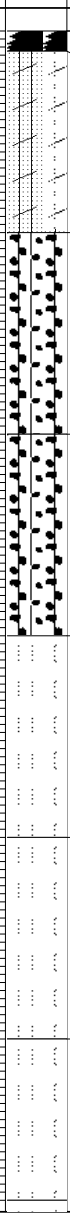
Log of Borehole: B22

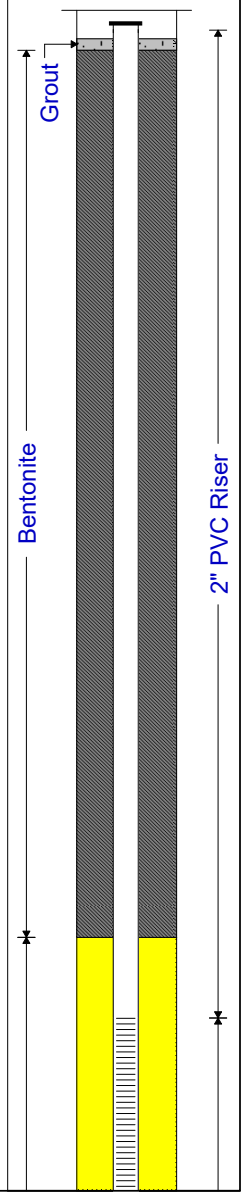
Diagram of Monitoring Well: MW07

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (2.5, 5, 7.5)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B22-1 (0.5-5') Fine-grained; reddish brown silty/sandy clay; no petroleum odor; no moisture.	5.0	B22-1		NA	0.0	
		B22-2 (5'-10') Fine-grained; mottled brown to light brown to white; silty/sand with larger rock fragments present; no petroleum odor; no moisture.	10.0	B22-2		NA	0.0	
		B22-3 (10'-15') Fine-grained; mottled brown to light brown to white; silty/sand with larger rock fragments present; no petroleum odor; no moisture.	15.0	B22-3		NA	0.0	
		B22-4 (15'-20') Fine-grained; mottled brown to black to tan; silty/fine sand; no petroleum odor; no moisture.	20.0	B22-4		NA	0.0	
		B22-5 (20'-25') Fine-grained; tan to brown silty/sand; no petroleum odor; no moisture.	25.0	B22-5		NA	0.0	
		B22-6 (25'-29') Fine-grained; tan to brown silty sand; no petroleum odor; no moisture. Obtained rod refusal at approximately 29.0 feet bgs due to suspected weathered rock.	29.0	B22-6		NA	0.0	
							0.0	





Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/19/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B22

Diagram of Monitoring Well: MW07

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

Depth	Description	Depth
30	***B22-7 (30')*** Converted drill rig to HSA.	30.0
31	Fine-grained; brown; silty sand with weathered material; no petroleum odor; no moisture.	
32	***B22-8 (35')*** Fine-grained; brown; silty sand with weathered material; no petroleum odor; no moisture.	
33		
34		
35		35.0
36	***B22-9 (40')*** Fine-grained; brown; silty sand with weathered material; no petroleum odor; slight moisture.	
37		
38		
39		
40		40.0
41	***B22-10 (45')*** Fine-grained; brown; silty/fine sand with weathered material present; no petroleum odor; slight moisture.	
42		
43		
44		
45		45.0
46	***B22-11 (50')*** Fine-grained; brown; silty/fine sand with weathered material present; no petroleum odor; moisture evident.	
47		
48		
49		
50		50.0
51	***B22-12 (55')*** Fine-grained; brown; silty/fine sand with weathered material present; no petroleum odor; moisture evident.	
52		
53	Terminated soil boring B22 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B22 to monitoring well MW07.	
54		
55		55.0
56	End of Borehole	
57		
58		

SAMPLE

Number	Type	Lab Results (TPH-GRO)
B22-7		NA
B22-8		ND
B22-9		NA
B22-10		ND
B22-11		NA
B22-12		NA

PID READINGS

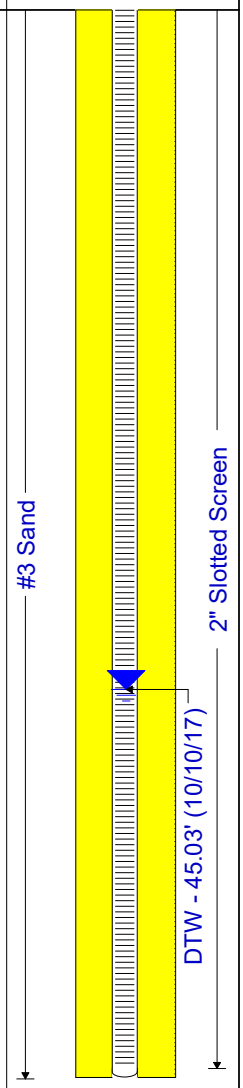
VOC Concentration ppm

2.5 5 7.5

0.0 0.0 0.0 0.0 0.0 0.0

MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/19/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

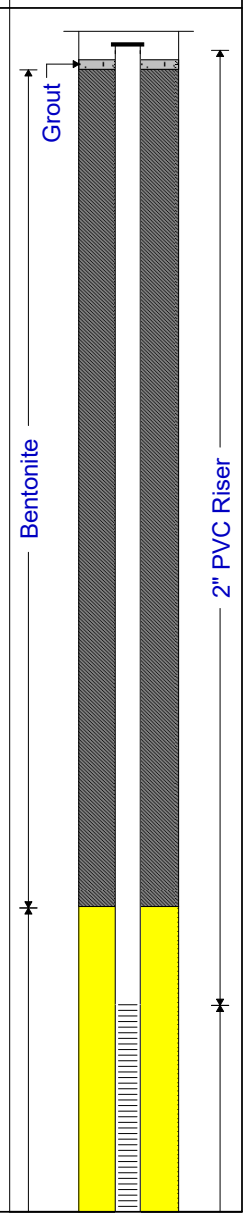
Log of Borehole: B23

Diagram of Monitoring Well: MW08

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (2.5, 5, 7.5)	Well Completion Details
		Ground Surface	0.0					
		Asphalt	0.5					
		B23-1 (0.5-5') Fine-grained; reddish brown; silty/sandy clay; no petroleum odor; no moisture.	5.0	B23-1		NA	0.0	
		B23-2 (5'-10') Fine-grained; mottled brown to dark brown to tan; silty/sand; no petroleum odor; no moisture.	10.0	B23-2		NA	0.0	
		B23-3 (10'-15') Fine-grained; mottled brown to tan to white; silty/fine sand; no petroleum odor; no moisture.	15.0	B23-3		NA	0.4	
		B23-4 (15'-20') Fine-grained; mottled brown to tan to white; silty/fine sand; no petroleum odor; no moisture.	20.0	B23-4		NA	0.1	
		B23-5 (20'-25') Fine-grained; brown to light brown; silty/fine sand; no petroleum odor; no moisture.	25.0	B23-5		NA	0.0	
		B23-6 (25'-30') Fine-grained; brown to light brown; silty/fine sand with weathered material and small rock fragments present; no petroleum odor; no moisture. Obtained rod refusal at approximately 30.0 feet bgs due to suspected weathered rock.	30.0	B23-6		NA	0.1	
							0.0	



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/20/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

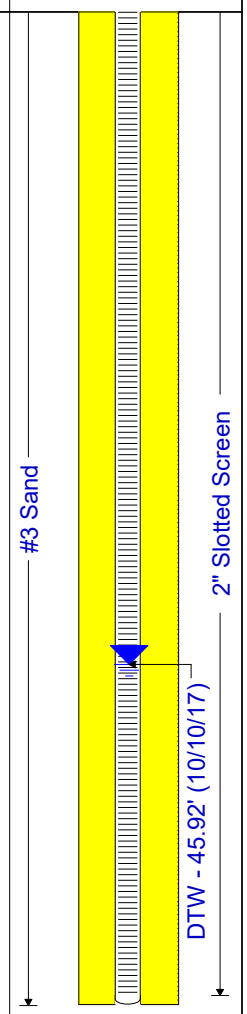
Log of Borehole: B23

Diagram of Monitoring Well: MW08

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (2.5, 5, 7.5; 0.1)	Well Completion Details
31–34		***B23-7 (35')*** Converted drill rig to HSA. Fine-grained; brown; silty fine sand; no petroleum odor; no moisture.	35.0	B23-7		ND	0.0	
35–39		***B23-8 (40')*** Fine-grained; brown; silty fine sand; no petroleum odor; no moisture.	40.0	B23-8		NA	0.0	
40–44		***B23-9 (45')*** Fine-grained; brown to dark brown; silty/fine sand with small rock fragments; no petroleum odor; no moisture.	45.0	B23-9		ND	0.0	
45–49		***B23-10 (50')*** Fine-grained; brown to dark brown; silty/fine sand with small rock fragments; no petroleum odor; moisture evident.	50.0	B23-10		NA	0.0	
50–54		***B23-11 (55')*** Fine-grained; dark brown; silty/fine sand with weathered material present; no petroleum odor; moisture evident. Terminated soil boring B23 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B23 to monitoring well MW08.	55.0	B23-11		NA	0.0	
55–60		End of Borehole						



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/20/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B24

Diagram of Monitoring Well: MW09

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

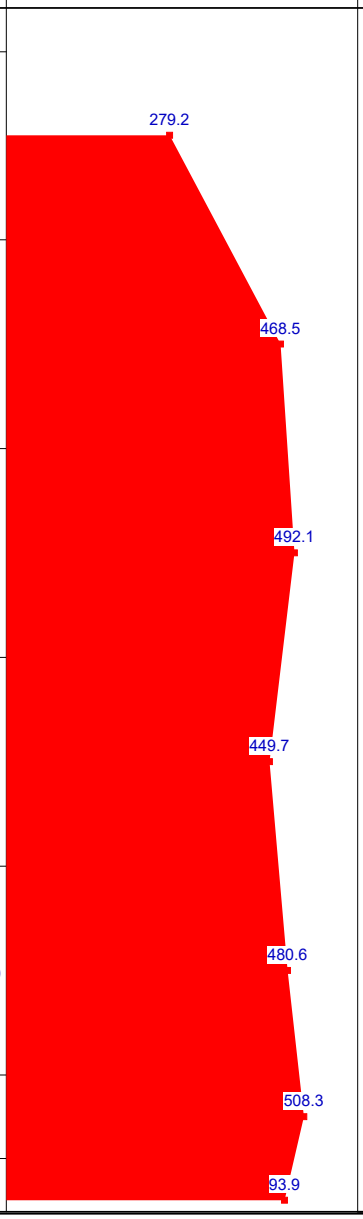
Depth	Description	Depth
	Ground Surface	0.0
	Asphalt	0.5
	B24-1 (0.5-5') Fine-grained; reddish brown; silty/sandy clay; slight petroleum odor; no moisture.	5.0
	B24-2 (5'-10') Fine-grained; mottled brown to tan to dark brown; silty/fine sand; strong petroleum odor; no moisture.	10.0
	B24-3 (10'-15') Fine-grained; mottled brown to light brown; silty/fine sand; strong petroleum odor; no moisture.	15.0
	B24-4 (15'-20') Fine-grained; mottled brown to orangish brown to tan; silty/fine sand; strong petroleum odor; no moisture.	20.0
	B24-5 (20'-25') Fine-grained; mottled brown to orangish brown to tan; silty/fine sand; strong petroleum odor; no moisture.	25.0
	B24-6 (25'-27') Fine-grained; mottled brown to orangish brown to tan; silty/fine sand; strong petroleum odor; no moisture.	27.0
	Obtained rod refusal at approximately 27.0 feet bgs due to suspected weathered rock.	

SAMPLE

Number	Lab Results (TPH-GRO) / (TPH-DRO)
B24-1	168 / 6,310
B24-2	126 / 9,130
B24-3	88.9 / 6,690
B24-4	112 / 7,910
B24-5	1,740 / 18,900
B24-6	NA / NA

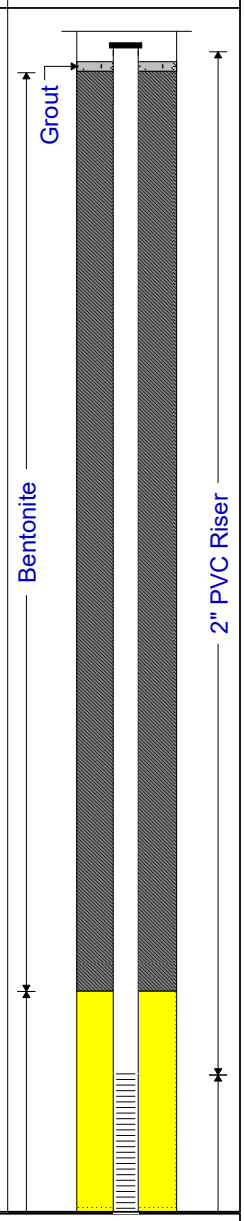
PID READINGS

VOC Concentration ppm (150, 300, 450)



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/20/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B24

Diagram of Monitoring Well: MW09

Geologist: ADAM FLORA

Generation Date: 11/09/2017

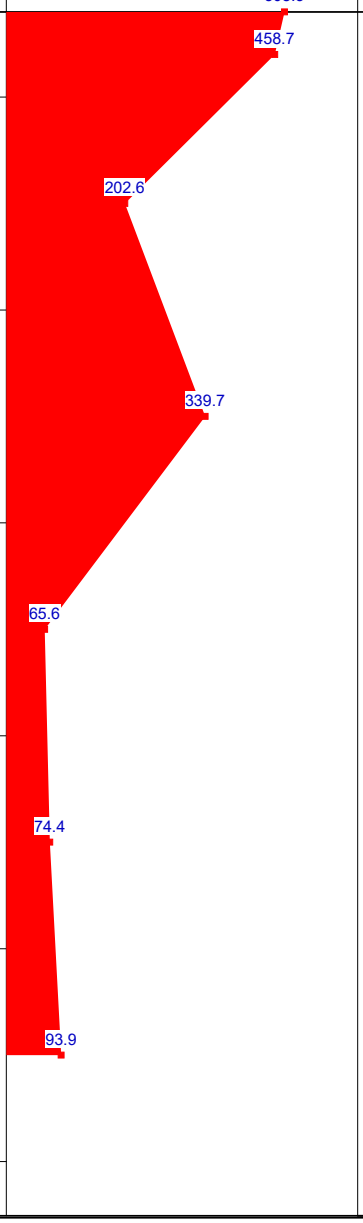
SUBSURFACE PROFILE

Depth	Description	Depth
	B24-7 (30') Converted drill rig to HSA. Fine-grained; brown to orangish brown; silty/fine sand with weathered material present; petroleum odor; no moisture.	30.0
	B24-8 (35') Fine-grained; brown to orangish brown; silty/fine sand; petroleum odor; no moisture.	35.0
	B24-9 (40') Fine-grained; brown to orangish brown; silty/fine sand; petroleum odor; no moisture.	40.0
	B24-10 (45') Fine-grained; brown to dark brown; silty/fine sand; petroleum odor; slight moisture.	45.0
	B24-11 (50') Fine-grained; brown to dark brown; silty/fine sand; petroleum odor; moisture evident.	50.0
	B24-12 (55') Fine-grained; brown to dark brown; silty/fine sand with weathered material present; strong petroleum odor; moisture evident. Terminated soil boring B24 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B27 to monitoring well MW09.	55.0
	End of Borehole	

SAMPLE

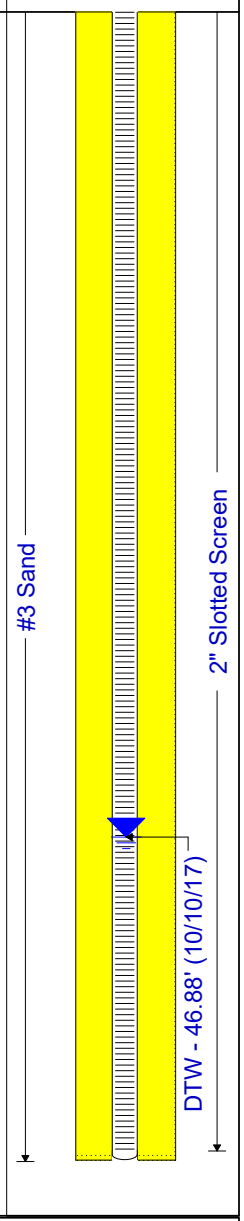
Number	Lab Results (TPH-GRO) / (TPH-DRO)
B24-7	127 / 10,500
B24-8	41.2 / 1,280
B24-9	23.9 / 2,360
B24-10	910 / 153
B24-11	NA / NA
B24-12	NA / NA

PID READINGS



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/20/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B25

Diagram of Monitoring Well: MW10

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

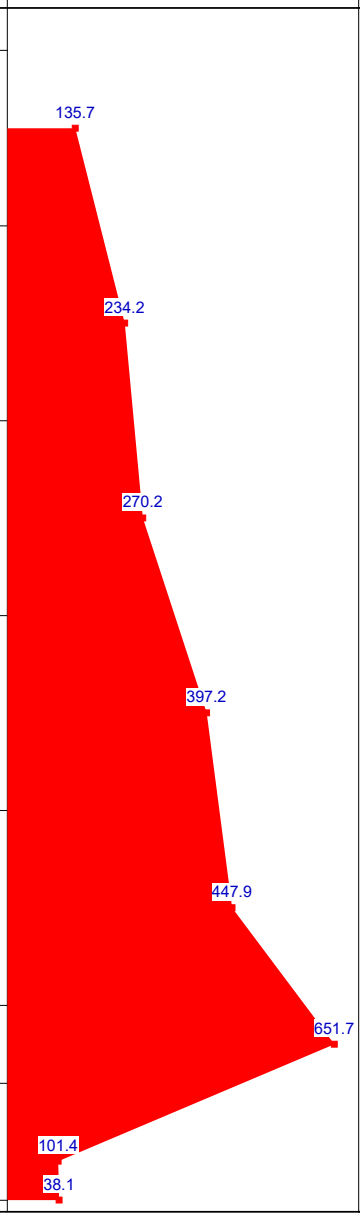
Depth	Description	Depth
	Ground Surface	0.0
	Asphalt	0.5
	B25-1 (0.5-5') Fine-grained; reddish brown; silty/sandy clay with silty/fine sand at approximately 4 feet bgs; slight petroleum odor; no moisture.	5.0
	B25-2 (5'-10') Fine-grained; mottled brown to light brown to orangish brown; silty/fine sand; slight petroleum odor; no moisture.	10.0
	B25-3 (10'-15') Fine-grained; mottled brown to dark brown; silty/fine sand; petroleum odor; no moisture.	15.0
	B25-4 (15'-20') Fine-grained; mottled dark brown to black to white; silty/fine sand; petroleum odor; no moisture.	20.0
	B25-5 (20'-25') Fine-grained; mottled dark brown to brown to white; silty/fine sand; petroleum odor; no moisture.	25.0
	B25-6 (25'-27') Fine-grained; dark brown to black to tan; silty/fine sand and weatherexd material; strong petroleum odor; no moisture.	27.0
	Obtained rod refusal at approximately 27.0 feet bgs due to suspected weathered rock.	30.0

SAMPLE

Number	Lab Results (TPH-GRO)
B25-1	1,280
B25-2	1,090
B25-3	1,360
B25-4	2,230
B25-5	ND
B25-6	NA
B25-7	ND

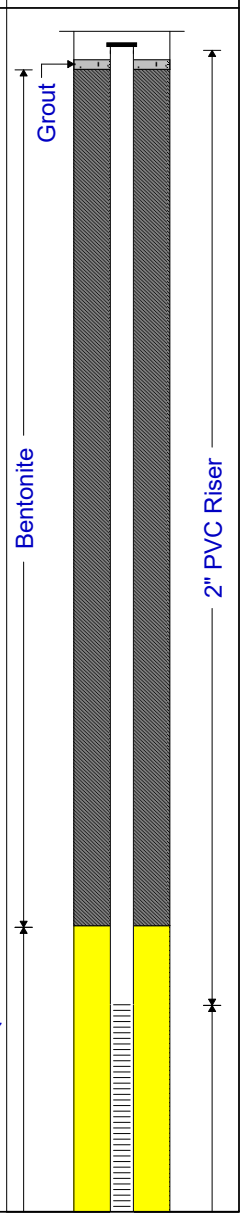
PID READINGS

VOC Concentration ppm (175, 350, 525)



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/21/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B25

Diagram of Monitoring Well: MW10

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

Depth	Description	Depth
	B25-7 (30') Converted drill rig to HSA. Fine-grained; brown; silty/fine sand; petroleum odor; no moisture. ***B25-8 (35')*** Fine-grained; brown; weathered material with silty/fine sand; petroleum odor; no moisture.	35.0
	B25-9 (40') Fine-grained; brown; weathered material with silty/fine sand; petroleum odor; no moisture.	40.0
	B25-10 (45') Fine-grained; brown; weathered material with silty/fine sand; petroleum odor; no moisture.	45.0
	B25-11 (50') Fine-grained; brown to light brown; weathered material; slight petroleum odor; moisture evident.	50.0
	B25-12 (55') Fine-grained; brown to light brown; weathered material; slight petroleum odor; moisture evident. Terminated soil boring B25 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B25 to monitoring well MW10.	55.0
	End of Borehole	

SAMPLE

Number	Type	Lab Results (TPH-GRO)
B25-8		ND
B25-9		ND
B25-10		ND
B25-11		NA
B25-12		NA

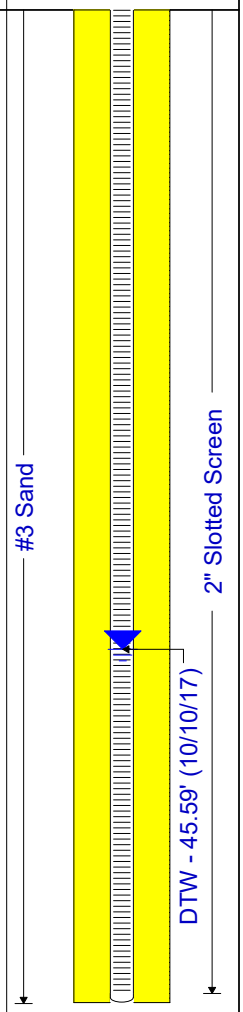
PID READINGS

VOC Concentration ppm (175, 350, 525)

101.4, 108.3, 78.2, 109.1, 21.8, 38.1

MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/21/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES LLC

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

Log of Borehole: B26

Diagram of Monitoring Well: MW11

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE

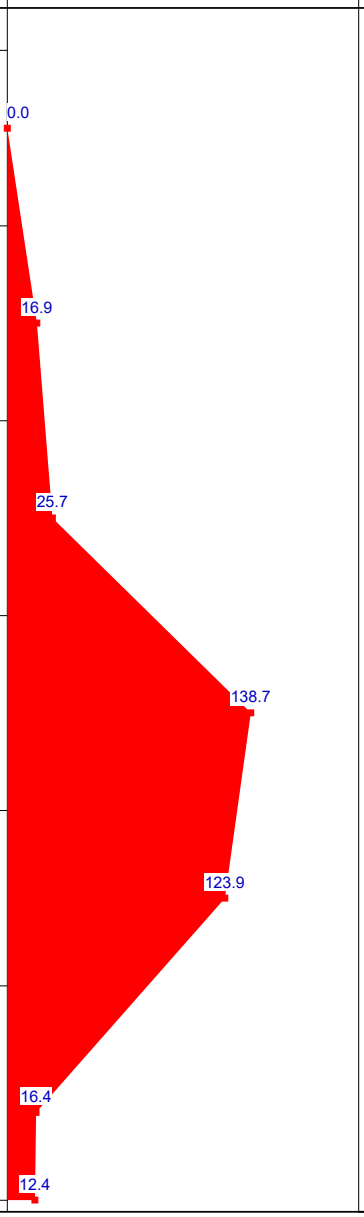
Depth	Description	Depth
	Ground Surface	0.0
	Asphalt	0.5
	B26-1 (0.5-5') Fine-grained; reddish brown; silty/sandy clay; no petroleum odor; no moisture.	5.0
	B26-2 (5'-10') Fine-grained; mottled brown to light brown to tan; silty/fine sand; slight petroleum odor; no moisture.	10.0
	B26-3 (10'-15') Fine-grained; mottled brown to orangish brown with black; silty/fine sand; slight petroleum odor; no moisture.	15.0
	B26-4 (15'-20') Fine-grained; mottled brown to orangish brown with black; silty/fine sand; petroleum odor; no moisture.	20.0
	B26-5 (20'-24.5') Fine-grained; mottled orangish brown to brown to black; weathered material and silty fine sand; petroleum odor; no moisture. Obtained rod refusal at approximately 24.5 feet bgs due to suspected weathered rock.	24.5
	B26-6 (30') Converted drill rig to HSA. Fine-grained; brown; weathered material; silty/fine sand; slight petroleum odor; no moisture.	30.0

SAMPLE

Number	Type	Lab Results (TPH-GRO)
B26-1		NA
B26-2		ND
B26-3		ND
B26-4		ND
B26-5		ND
B26-6		ND

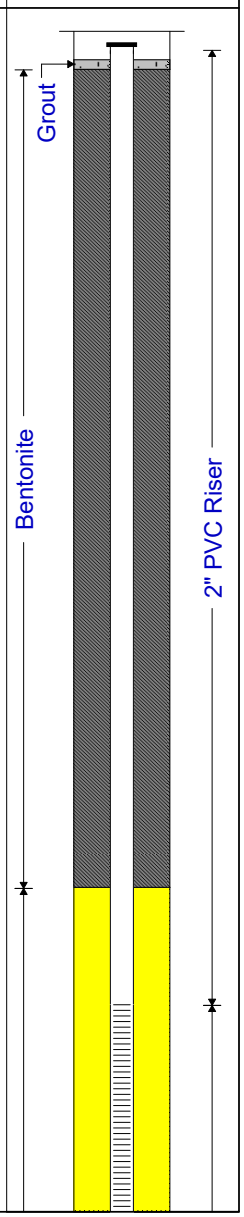
PID READINGS

VOC Concentration ppm (50, 100, 150)



MONITORING WELL DIAGRAM

Well Completion Details



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/21/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES

Project No: CSVI1002

Project: SITE CHARACTERIZATION REPORT

Client: THE ESTATE OF LACY DUDLEY

Location: CHAMBLISSBURG SUPPLY

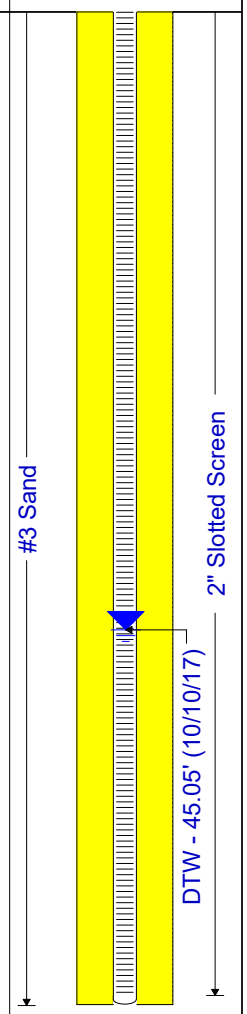
Log of Borehole: B26

Diagram of Monitoring Well: MW11

Geologist: ADAM FLORA

Generation Date: 11/09/2017

SUBSURFACE PROFILE				SAMPLE			PID READINGS	MONITORING WELL DIAGRAM
Depth	Symbol	Description	Depth	Number	Type	Lab Results (TPH-GRO)	VOC Concentration ppm (50, 100, 150)	Well Completion Details
31–35		***B26-7 (35')*** Fine-grained; brown; weathered material; silty/fine sandl; slight petroleum odor; no moisture.	35.0	B26-7		ND	16.4, 15.2	
35–40		***B26-8 (40')*** Fine-grained; brown; weathered material with silty/fine sand; slight petroleum odor; no moisture.	40.0	B26-8		ND	12.1	
40–45		***B26-9 (45')*** Fine-grained; brown; weathered material with silty/fine sand; slight petroleum odor; no moisture.	45.0	B26-9		ND	14.6	
45–50		***B26-10 (50')*** Fine-grained; brown to dark brown; weathered material; slight petroleum odor; moisture evident.	50.0	B26-10		NA	9.0	
50–55		***B26-11 (55')*** Fine-grained; brown to dark brown; weathered material; slight petroleum odor; moisture evident. Terminated soil boring B25 approximately 55 feet bgs due to evidence of groundwater. Converted soil boring B25 to monitoring well MW10.	55.0	B26-11		NA	12.4	
55–60		End of Borehole						



Drill Method: DIRECT PUSH/HSA

Drilled by: DAVIDSON DRILLING, INC.

Drill Date: 09/21/2017

Hole Size: 6.875 INCHES

GREENE ENVIRONMENTAL SERVICES

Save copy to owner 7-10-15

Commonwealth of Virginia
Uniform Water Well Completion Report

Owner Wayne Gaines
Address PO Box 103
Montvale, Va. 24122
Phone
Location

Tax Map ID
VDH Permit 109-04-0598
VWCB Permit
VWCB ID
County Bedford

*** Well Data ***

General Information
Drilling Method air rotary
Depth to Bedrock 85
Static Water Level
Well Disinfected (Y or N) Y

Date Completed 7-14-04
Yield 25 (GPM)
Stabilized Water Level
Disinfectant Used Chlor.

Total Depth of Well 260
Length of Test 1 hr. blow
Natural Flow (Rate) no
Amount Used 1 mg.

Casing
From +1 to 20
Size 6.25 Material heavywall
Weight/Schedule 80

From +21 to 90
Size 6.25 Material pvc
Weight/Schedule 40

From to
Size Material
Weight/Schedule

Gravel Pack
From to

From to

From to

Grout
From 0 to 50
Bore Hole Size 10
Type Bentonite
Method pumped

From to
Bore Hole Size
Type
Method

From to
Bore Hole Size
Type
Method

Water Zones or Screened Intervals
From 237 to 242
Mesh Size Diam.
From 250 to 254
Mesh Size Diam.

From to
Mesh Size Diam.
From to
Mesh Size Diam

From to
Mesh Size Diam.
From to
Mesh Size Diam

*** Use Data ***

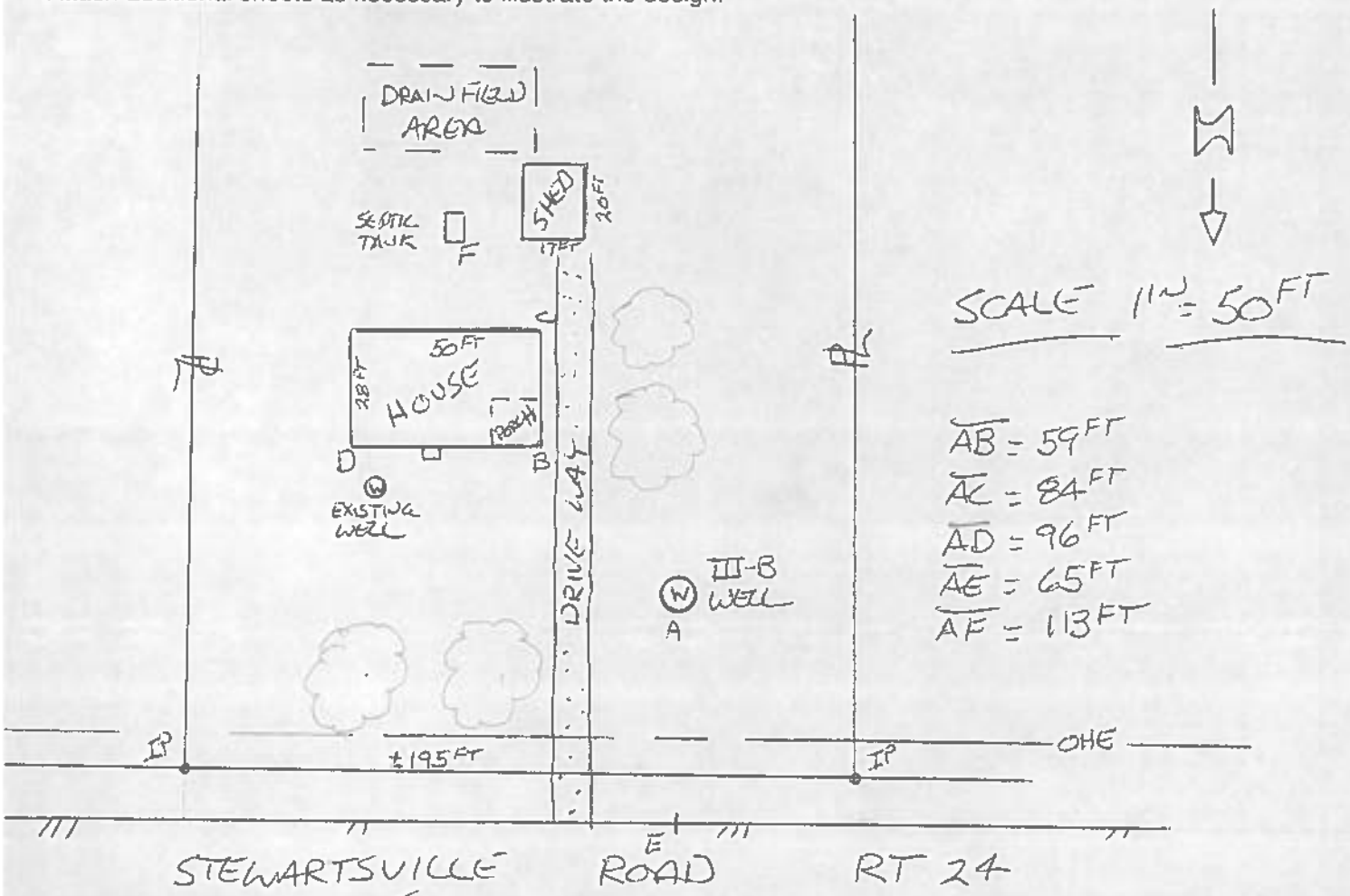
Private Well: Domestic X Agricultural Industrial Monitoring
Public Well: Community Non Community

Health Department
Identification Number 109-04-0598

Schematic drawing of sewage disposal and/or water supply system and topographic features.

Show the lot lines of the building site, sketch of property showing any topographic features which may impact on the design of the well or sewage disposal system, including existing and/or proposed structures and sewage disposal systems and wells within 200 feet. The schematic drawing of the well site or area and/or sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be permitted, show all sources of pollution within 200 feet.

☐ The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.



This sewage disposal system and/or water supply is to be constructed as specified by the permit ✓ or attached plans and specifications ____ .

This sewage disposal system and/or well construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: 07/12/2004 **Issued by:** _____ Sanitarian

Date: _____ **Reviewed by:** _____ Supervisory Sanitarian

This Construction Permit Valid until 01/12/2009

If FHA or VA financing

Reviewed by Date _____ _____ Supervisory Sanitarian **Date** _____ _____ Regional Sanitarian

CHS 2028

FRACTURE TRACE ANALYSIS & SITE RECONNAISSANCE FOR CHAMBLISSBURG SUPPLY

Vinton, Virginia

PREPARED FOR:

Mr. Adam Flora
Greene Environmental Services
129 Bunny Ridge Lane
Rocky Mount, VA 24151

November 3rd, 2017

Draper Aden Associates
Engineering • Surveying • Environmental Services

DAA Project Number: **17010623-010203**

Draper Aden Associates
Engineering • Surveying • Environmental Services

2206 South Main Street
Blacksburg, Virginia 24060
(540) 552-0444 • Fax (540) 552-0291
www.daa.com

November 3rd , 2017

Mr. Adam Flora
Greene Environmental Services
129 Bunny Ridge Lane
Rocky Mount, VA 24151

RE: Fracture Trace Analysis and Site Reconnaissance at Chamblissburg Supply, 10625 Stewartsville Road, Vinton, Virginia

Dear Mr. Flora,

Draper Aden Associates has completed the fracture trace analysis and site reconnaissance for the Chamblissburg Supply near Vinton, Virginia. The objective of this study was to conduct geologic research to identify fracture patterns that may be influencing groundwater movement to several water supply wells. The following report documents our methodologies and findings.

We value our professional relationship with Greene Environmental Services, and hope that you will contact us with any similar needs in the future. If you have any questions regarding this report, or if we can be of any further service to you please do not hesitate to contact us.

Sincerely,

Ethan Truman

Ethan Truman
Field Geologist

3RD PARTY REVIEW

This Report has been subjected to technical and quality reviews by:

Warren T. "Ted" Dean, PG	Warren T Dean	November 3rd, 2017
Geophysical Services Program Manager	Signature	Date

COMMONWEALTH OF VIRGINIA
WARREN THEODORE DEAN
NO. 1406
CERTIFIED PROFESSIONAL GEOLOGIST

FIGURES

Figure 1. Study area of the fracture trace analysis.

Figure 2. A portion of the published geologic map of the study area. From Henika, 1997.

Figure 3. Results of fracture trace analysis, overlain with impacted water supply well locations.

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY 1
2.0 INTRODUCTION 2
3.0 SITE GEOLOGY AND FRACTURE TRACE ANALYSIS 2
3.1 Site Geology 2
3.2 Fracture Trace Analysis 3
4.0 CONCLUSIONS 4
5.0 LIMITATIONS 4
6.0 REFERENCES 5
7.0 FIGURES 6

1.0 EXECUTIVE SUMMARY

Draper Aden Associates (DAA) was retained by Greene Environmental Services to conduct a fracture trace analysis and site reconnaissance for the Chamblissburg Supply in Vinton, Virginia. The study area is located approximately 0.75 miles west of Chamblissburg, Virginia at 10625 Stewartsville Road, Vinton, Virginia. The objective of this study was to conduct geologic research to identify fracture patterns that may be influencing groundwater movement to several water supply wells.

The tasks involved in this study included:

1. Researching published geologic maps or other available literature;
2. Conducting a fracture trace analysis, and site reconnaissance;
3. Preparation of this document to detail theory, methods and findings.

The results of the background geologic research and fracture trace analysis revealed three prominent "sets" of fracture traces within the study area. The most prominent set (Set 1) is oriented generally northwest-southeast (spanning from 135 to 150 degrees), the secondary set (Set 2) is oriented approximately west-east (spanning from 75 to 120 degrees), and the third set (Set 3) is oriented northeast-southwest (spanning from 15 to 30 degrees).

The fracture trace analysis does not reveal any direct fracture pathway or pathways between the Chamblissburg Supply site and the impacted water supply wells. The contaminant migration path is likely to be a complex combination of the groundwater gradient and one or more fracture sets. Therefore, the fracture patterns may result in a lateral "stair-step" pathway of groundwater and contaminant flow.

2.0 INTRODUCTION

Draper Aden Associates (DAA) was retained by Greene Environmental Services to conduct a fracture trace analysis and site reconnaissance for the Chamblissburg Supply in Vinton, Virginia. The study area is located approximately 0.75 miles west of Chamblissburg, Virginia at 10625 Stewartsville Road, Vinton, Virginia (Figure 1). The objective of this study was to conduct geologic research to identify fracture patterns that may be influencing groundwater movement to several water supply wells.

The tasks involved in this study included:

4. Researching published geologic maps or other available literature;
5. Conducting a fracture trace analysis, and site reconnaissance;
6. Preparation of this document to detail theory, methods and findings.

3.0 SITE GEOLOGY AND FRACTURE TRACE ANALYSIS

3.1 Site Geology

The site is located within the Piedmont province, which is characterized by its rolling topography. The Piedmont province is underlain by a variety of igneous and metamorphic rocks, with most of the contacts between formations and other geologic structure trending northeast to southwest as is typical of Appalachian geology. According to the published bedrock geologic map the site is underlain by the biotite granofels and gneiss member of the Lovingston massif (Henika, W.S., 1997). The geologic map of the site contains no strike and dip symbols in the study area. The orientation of the strikes and dips of schistosity and compositional layering around the site are predominantly northeast-southwest with some of the compositional layering striking to the northwest-southeast, such as observed in the southeast corner of the study area (Figure 2).

In an attempt to obtain site-specific geologic information, a site reconnaissance was conducted. A thorough examination of local road cuts and stream beds was conducted, but no outcrops were found to confirm local geologic conditions.

3.2 Fracture Trace Analysis

A fracture trace analysis was conducted using a contour map produced from 2007 terrain models acquired from the Virginia Geographic Information Network (VGIN). Fracture traces are linear topographic features such as valleys or unusually straight river segments that are indicative of possible fracture zones within the underlying bedrock, which are the result of ancient directional tectonic stresses. Fractured bedrock is more susceptible to erosion and weathering than unfractured bedrock, and as such, over time the fractured bedrock zones weather downward at a faster rate than the relatively unfractured rock surrounding them, resulting in topographically lower linear features in the ground surface.

The results of the fracture trace analysis are presented in Figure 3, and are illustrated on a shaded relief terrain model. The interpreted fracture traces are illustrated as straight black lines, overlain with the impacted water supply wells (blue targets) for reference. The orientations of the interpreted fracture traces were used to create a rose diagram from which the most prominent fracture trace orientations can be derived.

The analysis revealed three prominent "sets" of fracture traces in the study area. The most prominent set (Set 1) is oriented generally northwest-southeast (spanning from 135 to 150 degrees), the secondary set (Set 2) is oriented approximately west-east (spanning from 75 to 120 degrees), and the third set (Set 3) is oriented northeast-southwest (spanning from 15 to 30 degrees).

4.0 CONCLUSIONS

The movement of groundwater and contaminants can be influenced by many factors, such as geologic structures and gradient. It is possible that any or all of the three sets of fracture traces could influence the migration of the groundwater. It should be noted that while the fracture trace analysis is conducted on fracture traces that are expressed in the topography, it is our experience in using geophysical imaging methods that fracture zones will exist in the bedrock that have no expression in the topography. Therefore, it is likely that fracture zones exist along the ridge on which Stewartsville Road resides where there are no observed fracture traces.

The fracture trace analysis does not reveal any direct fracture pathway or pathways between the Chamblissburg Supply site and the impacted water supply wells. The contaminant migration path is likely to be a complex combination of the groundwater gradient and one or more fracture sets. Therefore, the fracture patterns may result in a lateral "stair-step" pathway of groundwater and contaminant flow.

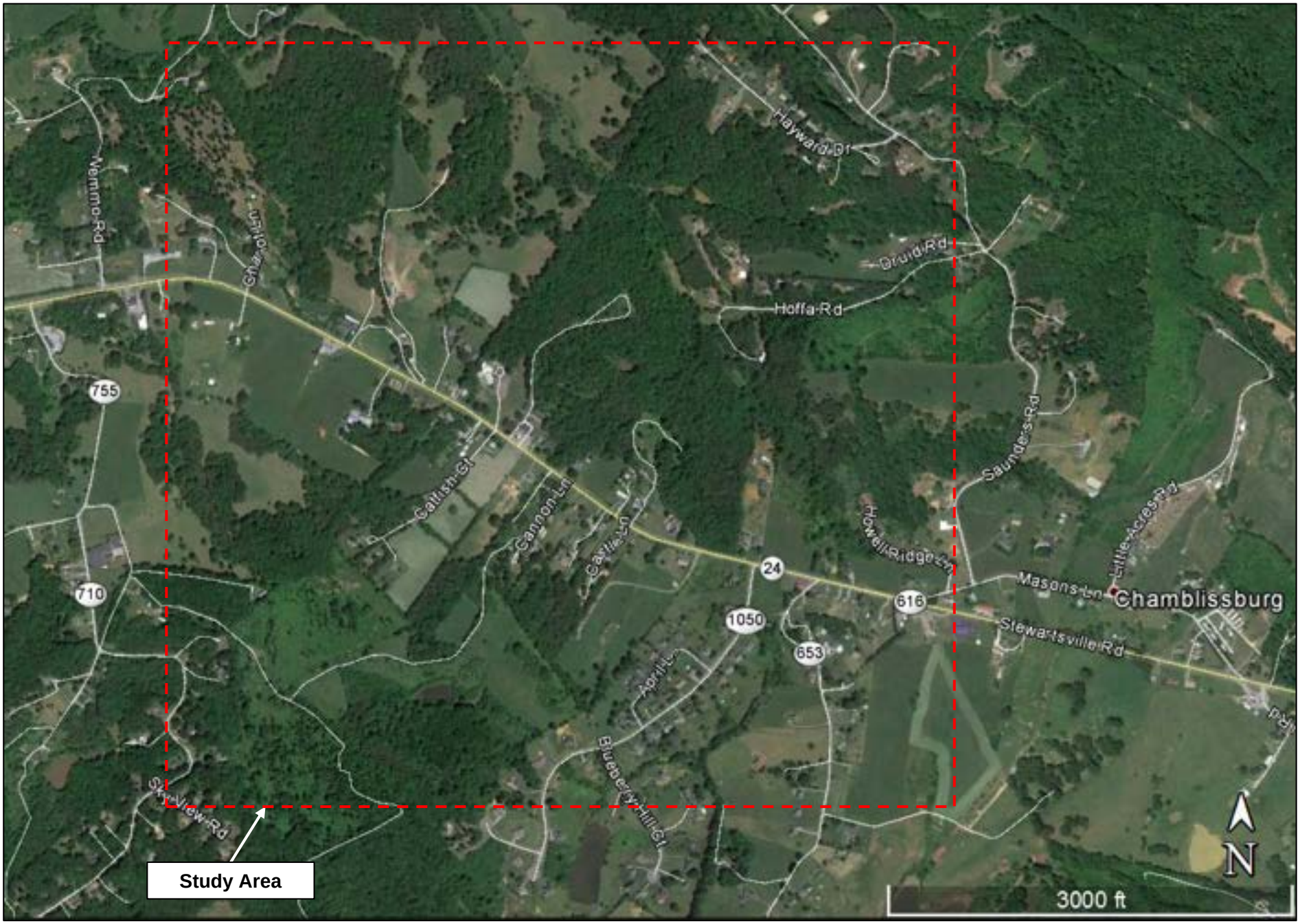
5.0 LIMITATIONS

In accordance with §54.1-402 of the Code of Virginia, any determination of topography or contours, or any depiction of physical improvements, property lines or boundaries using VGIN data is for general information only and shall not be used for the design, modification, or construction of improvements to real property or for flood plain determination.

6.0 REFERENCES

Henika, W.S., 1997. Geologic map of the Roanoke 30 x 60 minute quadrangle, Virginia Division of Mineral Resources, Publication 148, scale 1:100,000

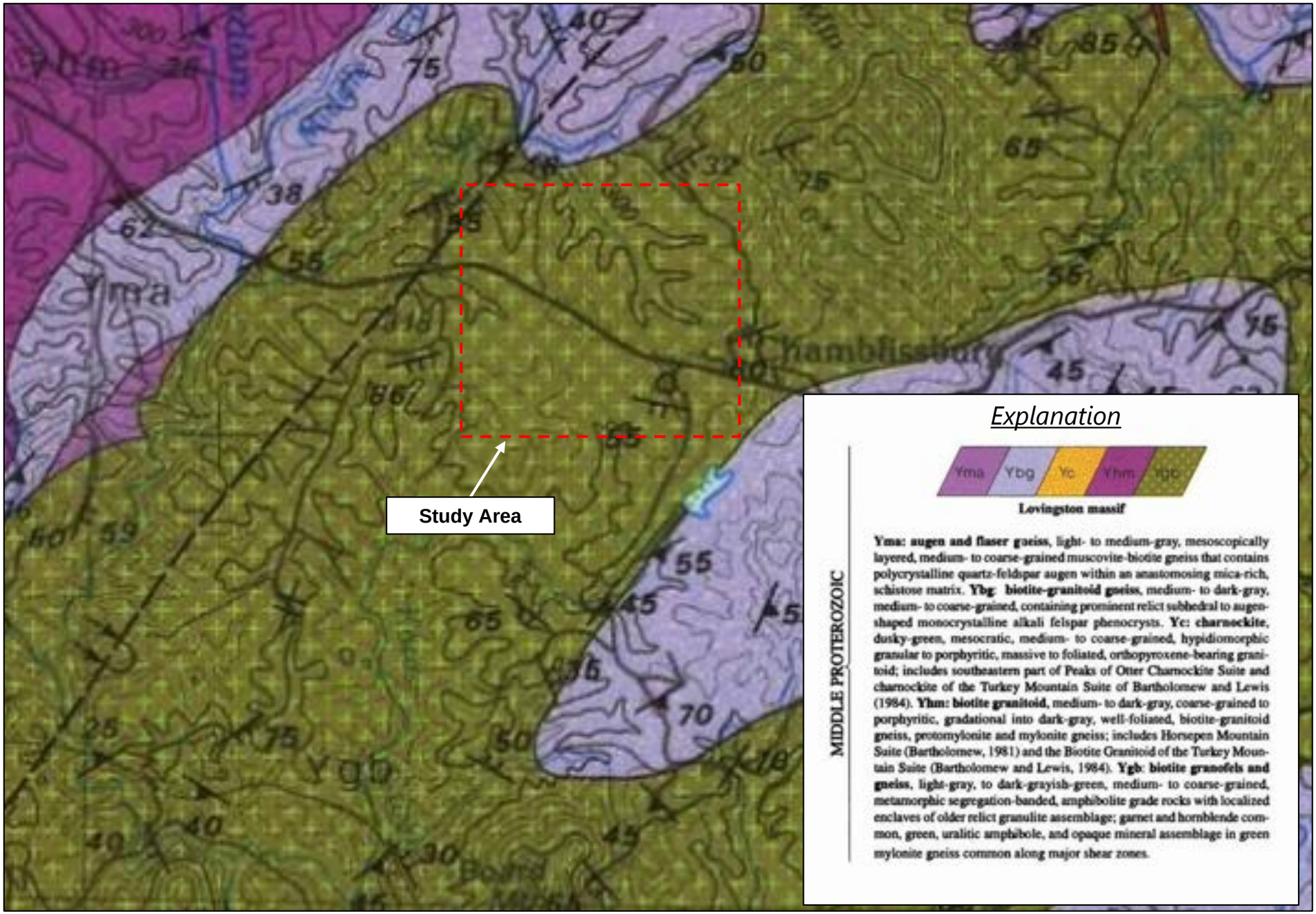
7.0 FIGURES



Draper Aden Associates
Engineering • Surveying • Environmental Services
2206 South Main Street
Blacksburg, VA 24060
540-552-0444 Fax: 540-552-0291
Richmond, VA
Charlottesville, VA
Hampton Roads, VA

Figure 1. Study area of the fracture trace analysis.

Fracture Trace Analysis for Chamblissburg Supply
Vinton, Virginia
DAA JN: 17010623-010203



Scale Unknown

Source: https://ngmdb.usgs.gov/ngm-bin/pdp/zui_viewer.pl?id=15039

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Charlottesville, VA
Hampton Roads, VA

Figure 2. A portion of the published geologic map of the study area. After Henika, W.S., 1997.

Fracture Trace Analysis for Chamblissburg Supply
Vinton, Virginia
DAA JN: 17010623-010203

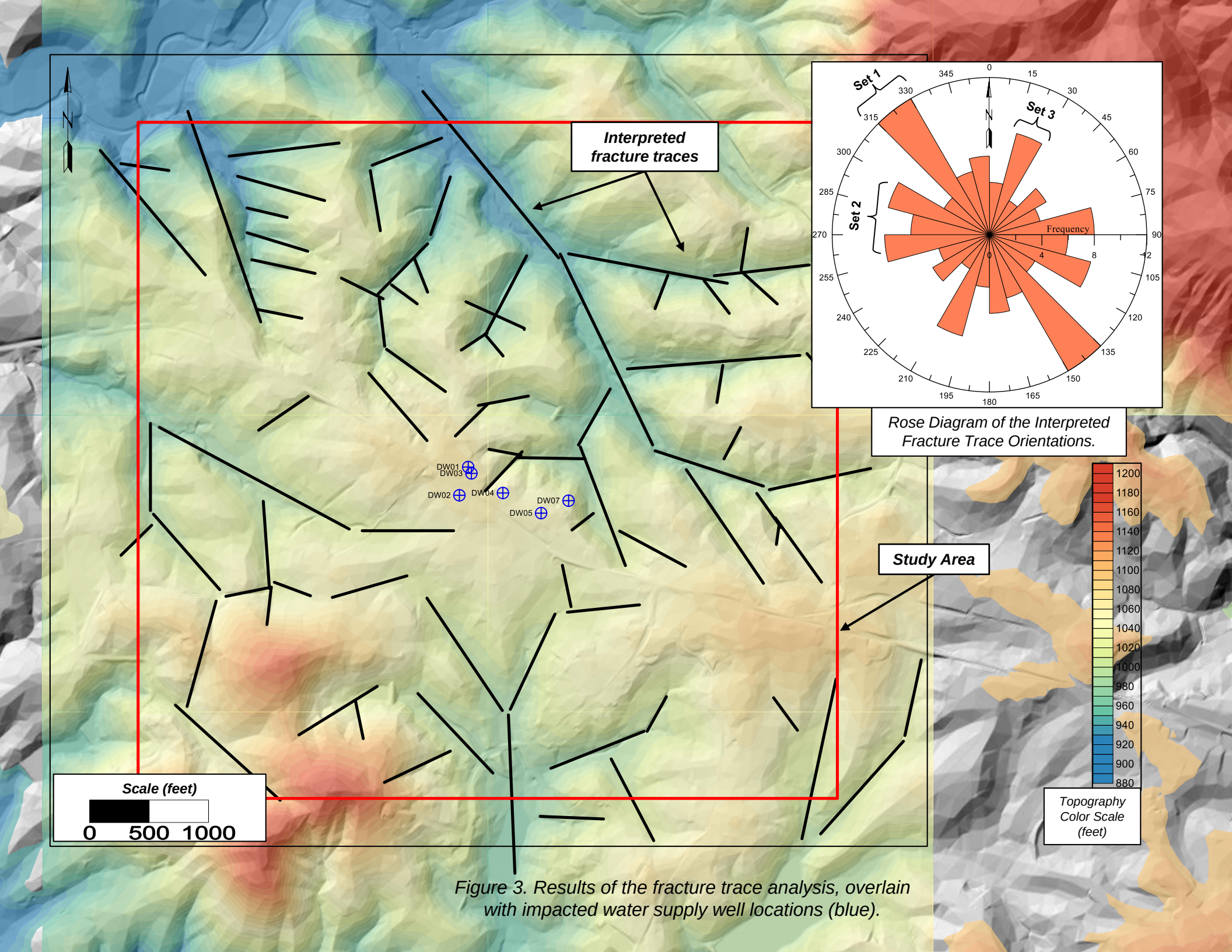

Figure 3. Results of the fracture trace analysis, overlain with impacted water supply well locations (blue).

January 23, 2018

Mr. Adam Flora
Greene Environmental Services, LLC
129 Bunny Ridge Lane
Rocky Mount, VA 24151

Subject: Results of Geophysical Borehole Logging
Five Boreholes (DW-01A, DW-02A, DW-03A, DW-04A, and DW-04B)
Vinton, VA
ARM Project: 170607

Dear Mr. Flora,

ARM Geophysics (ARM) is pleased to present this letter report that summarizes the results of geophysical borehole logging performed at the above referenced site on October 31, November 1, 28, and 29 of 2017. The objective of the logging was to identify water-bearing zones and to measure the depth and orientation of fractures and foliation planes in the above mentioned boreholes. To achieve these objectives, ARM acquired standard borehole logs and images.

LOGGING METHODS

The logs that ARM completed for this investigation include:

- Natural Gamma
- Fluid Temperature
- Fluid Resistivity
- 3-Arm Caliper
- Short & Long Normal Resistivity
- Single Point Resistance
- Spontaneous Potential (SP)
- Optical Televiewer (OTV)
- Acoustic Televiewer (ATV)
- Heat Pulse Flowmeter – Ambient

ARM has provided a summary of these logging methods in Attachment A. ARM acquired the standard logs using a Matrix acquisition system manufactured by Mount Sopris Instrument Company.

INTERPRETATION

BASIC LOG DESCRIPTIONS

The geophysical borehole logs acquired during this investigation are presented in Attachment B. All log depths are referenced to ground surface as indicated in the header of each log. The majority of the acquired data are presented as standard curves that represent the change in measured parameter with depth. The format of the heat pulse flowmeter and televiewer logs are discussed in the following paragraphs.

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The Vertical Flow track in the Hydro Log provides a record of the rate of vertical fluid movement derived from the heat pulse flowmeter tool. The X-axis represents the magnitude of flow in gallons/min that was recorded at depths indicated by the posted value. It is calculated during acquisition by dividing the distance between the grid and thermistors by the travel time. Negative and positive values indicate downward and upward flow, respectively.

The televiewer logs contain borehole images and structural information obtained from the OTV tool. The *Optical View* track is an "unwrapped" photographic image of the borehole wall (Figure 1). In this case, the cylindrical borehole surface is unzipped along the north azimuth and unrolled to a flat strip. The compass orientation (with respect to true north) is presented at the top of the log. The unwrapped format is distorted like any projection of a curved surface on a flat one. Horizontal and vertical planes will be undistorted. However, dipping planes will be represented as a sine wave: the greater the dip, the greater the wave amplitude.

The Plane Projection track presents the fracture signatures that are digitized from the unwrapped *Optical View* track. The *Dip & Dip Direction* log is a presentation in which the vertical axis is depth and the horizontal is dip angle from 0° to 90°. As shown in Figure 2, the dip direction is indicated by the orientation of the tadpole tail, measured in a clockwise direction from north.

INTERPRETATION OF STRUCTURAL DIAGRAMS

The structural data are presented on polar and rose diagrams for statistical analysis and pattern visualization. Polar diagrams are used in this report to plot the dip and dip direction of planar features. Zero degree dip is represented at the center of the diagram and 90° at the circumference. The dip direction is indicated by the compass azimuth, measured clockwise from north (0°), as shown in Figure 3. This format is sometimes referred to as a dip vector plot but it is essentially the same as a stereonet with an upper hemisphere projection.

The rose diagram graphically illustrates the strike distribution of a set of planes. Radiating rays are drawn with lengths proportional to number of strike measurements within each 10° sector. It is important to recognize that in this report, the polar diagram represents dip and dip direction, whereas the rose diagram represents strike. Using the right-hand-rule convention, strike equals the dip direction minus 90°.

RESULTS AND DISCUSSION

SITE GEOLOGY

Ygb: Layered Biotite Granulite and Gneiss (Proterozoic Y), Virginia Division of Mineral Resources, 1993, Virginia Geologic Map Data: https://mrdata.usgs.gov/geology/state/state.php?state=VA

ORIENTATION ANALYSIS OF PLANAR FEATURES

An optical televiewer and acoustic image were used to measure the depth and orientations of foliation and fracture planes. The digitized planar features were corrected for borehole deviation and magnetic declination. The measured plane projections and orientations are shown in the plane projection log. A tabulated listing of the fracture and foliation orientations is presented in Attachment C. Stereographic analysis was performed on the planar orientation data acquired from the image log. A listing of the calculated mean orientations of all foliation and fracture planes are presented in Table

1. The results from the borehole is presented in the polar and rose diagrams, and charts shown in Figure 4 through 9. Predominant groups or "sets" are indicated by the clustering of data points in the polar diagrams.

Figure 4 presents a polar diagram showing the dip and dip direction of all planes measured during this investigation. ARM has classified the planes by symbols corresponding to foliation and fracture plane sets. Figure 5 presents the same data, with the data set(s) categorized by borehole.

ARM used statistical contouring to identify windows in which to calculate the mean orientation of all foliation and fracture planes. Figures 6A-E present polar diagrams with statistical contouring of foliation plane orientations. The mean foliation dip/dip directions are shown to the right of the diagram. The rose diagram in Figure 8 shows a predominant NE/SW strike direction.

Figure 7 presents a polar diagram with statistical contouring of all fracture plane orientations. The mean fracture plane dip/dip directions are shown to the right of the diagram. Similarity in the foliation set and fracture set 1 orientations suggest the latter may be foliation partings. The rose diagram in Figure 9 shows a predominant NE/SW strike direction.

The mean orientations for all foliation planes and fracture sets are shown in Table 1. Note that no foliation planes were identified in DW-04B due to a highly turbid optical televiewer image and the inability to discern foliation features in the image.

Table 1: Statistical mean of dip and dip direction of foliation and fracture planes.

Planes	Dip	Dip Direction	Strike/Dip
Sitewide Foliation	40	135	N45E/40SE
Sitewide Fractures	49	143	N53E/49SE
DW-01A Foliation	39	141	N51E/39SE
DW-01A Fractures	49	143	N53E/49SE
DW-02A Foliation	41	128	N38E/41SE
DW-02A Fracture Set 1	57	108	N18E/57SE
DW-02A Fracture Set 2	61	186	N84W/61SW
DW-03A Foliation	36	146	N56E/36SE
DW-03A Fracture Set 1	39	119	N29E/39SE
DW-03A Fracture Set 2	49	168	N78E/49SE
DW-04A Foliation	39	148	N58E/39SE
DW-04A Fracture Set 1	52	104	N14E/52SE
DW-04A Fracture Set 2	65	161	N71E/65SE
DW-04B Fracture Set 1	9	126	N36E/9SE
DW-04B Fracture Set 2	67	172	N82E/67SE

INTERPRETATION OF WATER PRODUCING OR RECEIVING ZONES

Water producing or receiving zones are typically identified in the acquired logs by a combination of the following parameters:

A. Start or increase in upward or downward fluid flow identified by heat pulse flowmeter data suggests water-producing zone.
B. End or decrease in upward or downward fluid flow identified by heat pulse flowmeter data suggests water-receiving zone.
C. Open fractures observed in televiewer data.
D. Deflections in caliper curve (suggests fractures).
E. Deflections or change in slope in fluid temperature or fluid resistivity curve.
F. Decrease in formation resistivity.

Table 2 presents the interpreted flow zones based on the indicators above. The most convincing evidence of water producing or receiving zones are heat pulse flowmeter, fluid temperature, and fluid resistivity deflections since they can indicate flow in the borehole. Fractures observed in televiewer images or caliper curves can indicate water-bearing zones although the evidence is more indirect. A fracture may be observed in the borehole wall that may have been opened or enlarged during the drilling process but may be tight and contain little or no water a short distance into the formation. A decrease in formation resistivity may be caused by an increase in water content but may also be caused by lithologic changes such as an increase in clay mineral content. For this reason, resistivity deflections are compared to the gamma ray curve to identify lithologic changes. A combination of the above indicators provides the highest level of confidence for identifying water-bearing zones.

Note that no flow was detected under ambient conditions in DW-01A, DW-03A, and DW-04A.

Table 2: Interpreted water producing or receiving zones and indicators. Letters in Indicators column correspond to the selection parameters shown above.

Borehole	Depth (Feet)	Indicators	Type
DW-02A	245-246	A, C, D	Producing zone
DW-02A	255-256	B, C, D	Receiving zone
DW-04B	75-80	A, C, D	Producing zone

CLOSING

The data collection and interpretation methodologies used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses with probable subsurface features is based on the past results of similar surveys although it is possible that some variation could exist at this site.

Please contact us if you have any questions regarding this survey. We appreciate your business and look forward to working with you again.

Kind regards,
ARM Geophysics

Duro Rajkovic
Senior Geophysicist

FIGURES

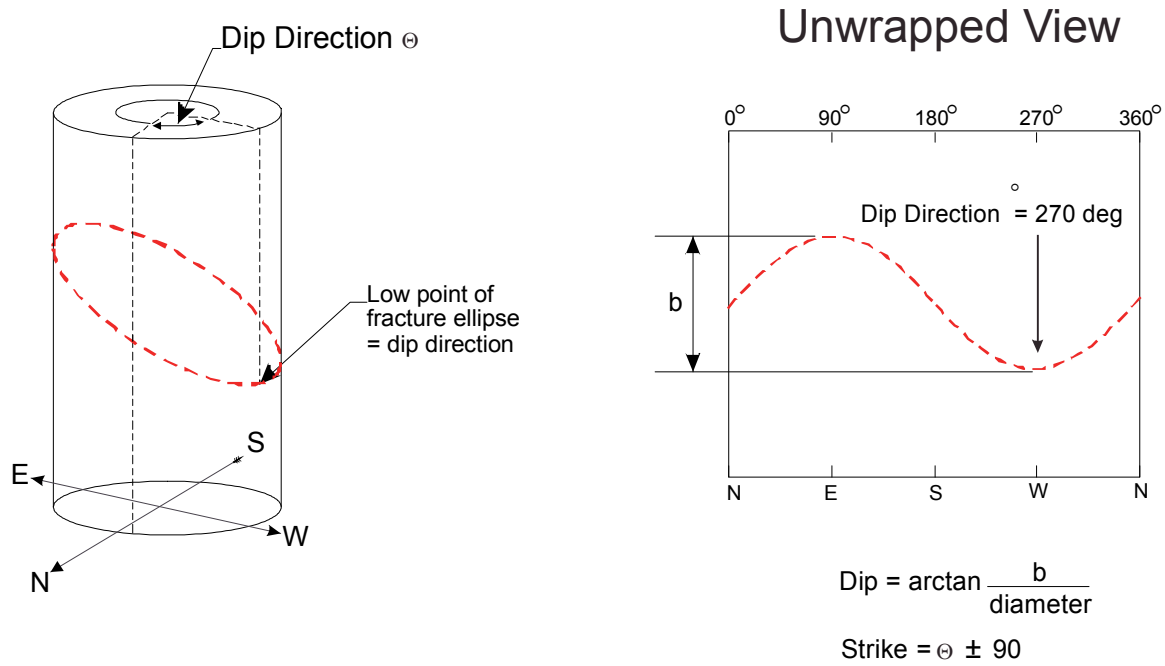

Figure 1: Diagram illustrating unwrapped view of fracture signature.

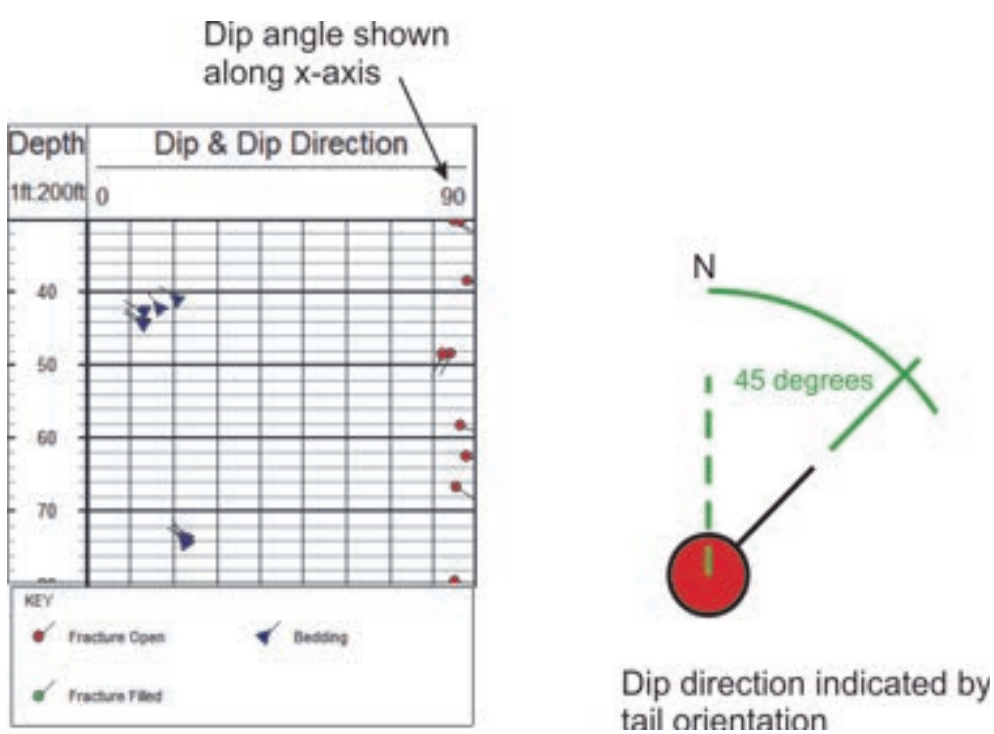

Figure 2: Dip & dip direction determination from the tadpole plot.

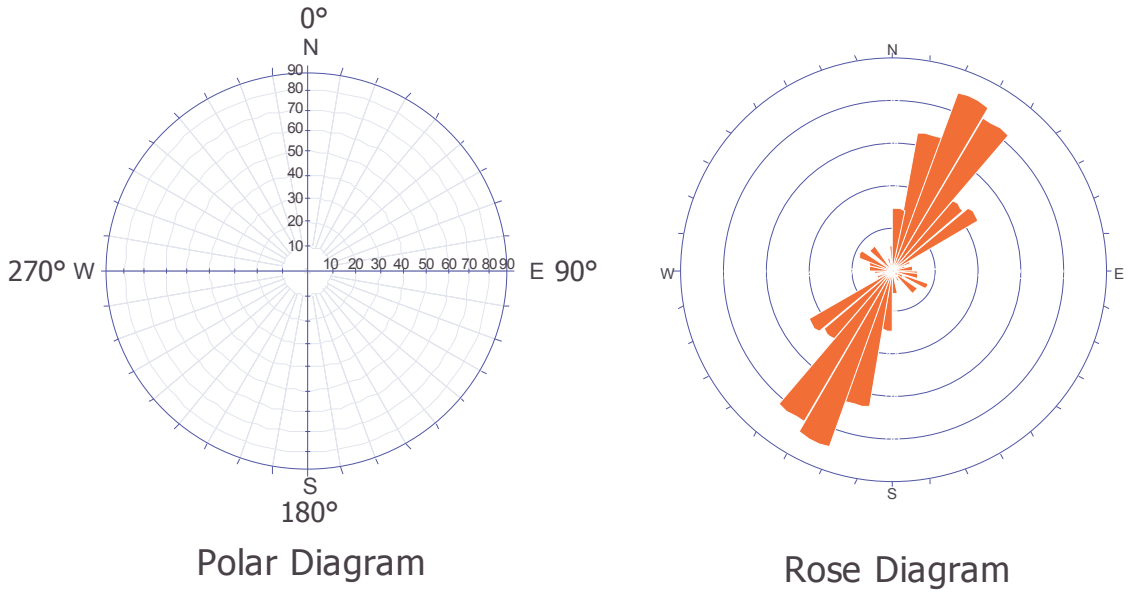

Figure 3: Example polar and rose diagrams. Polar diagram is used in this report for plotting dip and dip direction. Rose diagrams are used for plotting the frequency or number of strike measurements per sector.

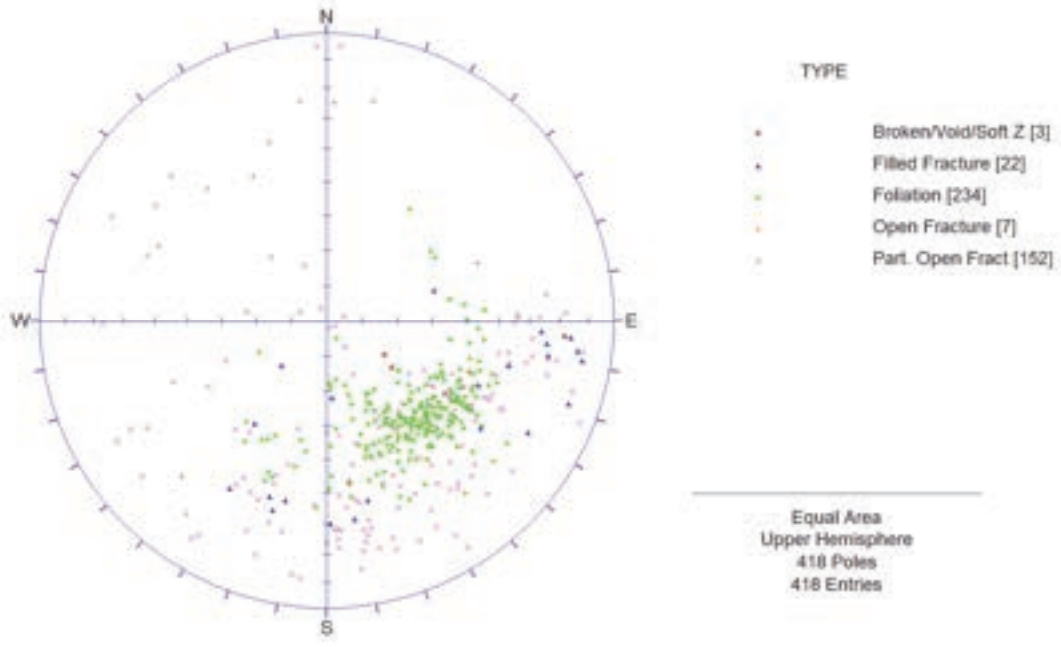

Figure 4A: A polar diagram plotting dip and dip direction of all planes categorized by plane type (Sitewide).

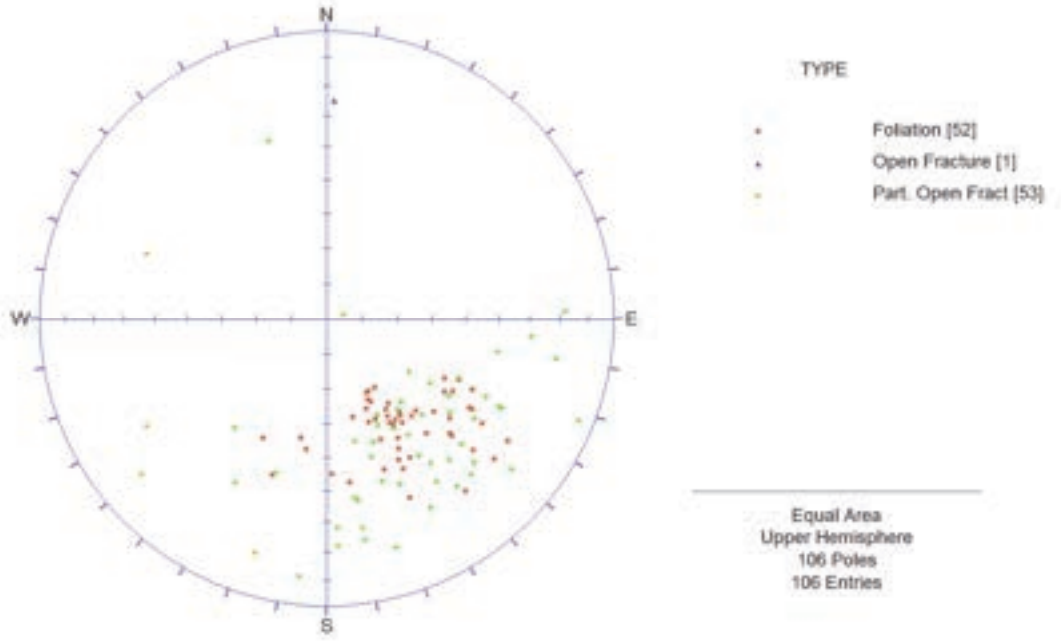

Figure 5B: A polar diagram plotting dip and dip direction of all planes categorized by plane type (DW-01A).

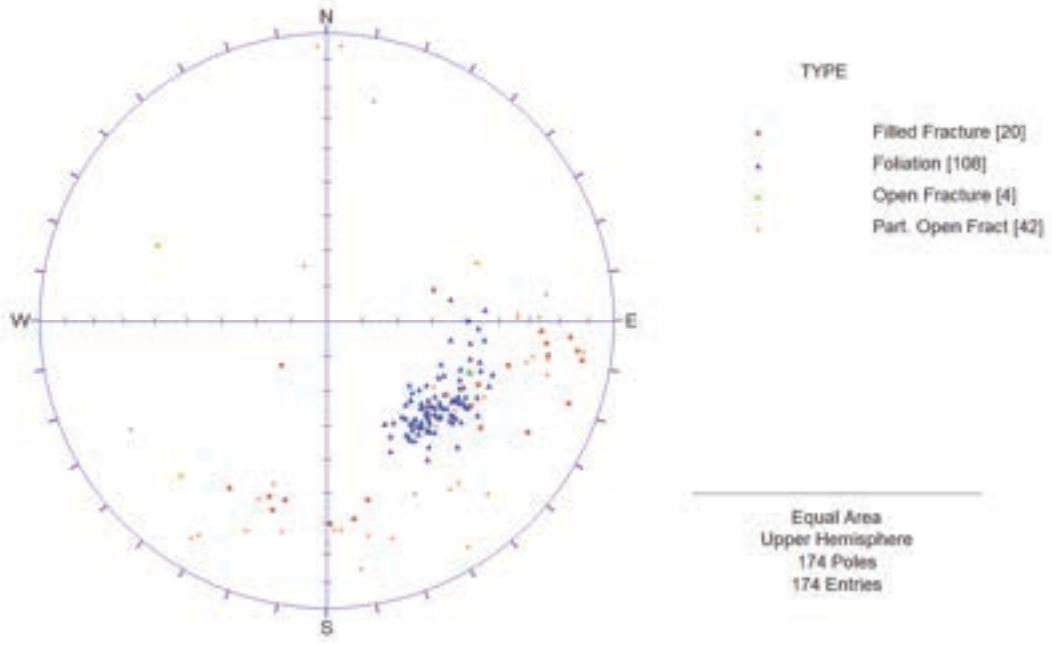

Figure 6C: A polar diagram plotting dip and dip direction of all planes categorized by plane type (DW-02A).

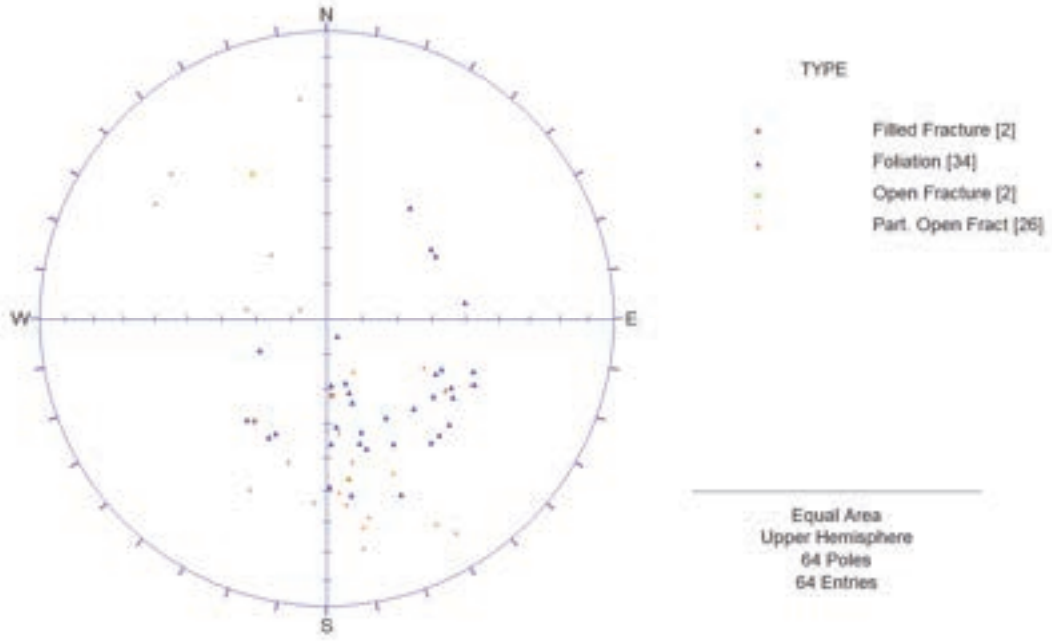

Figure 7D: A polar diagram plotting dip and dip direction of all planes categorized by plane type (DW-03A).

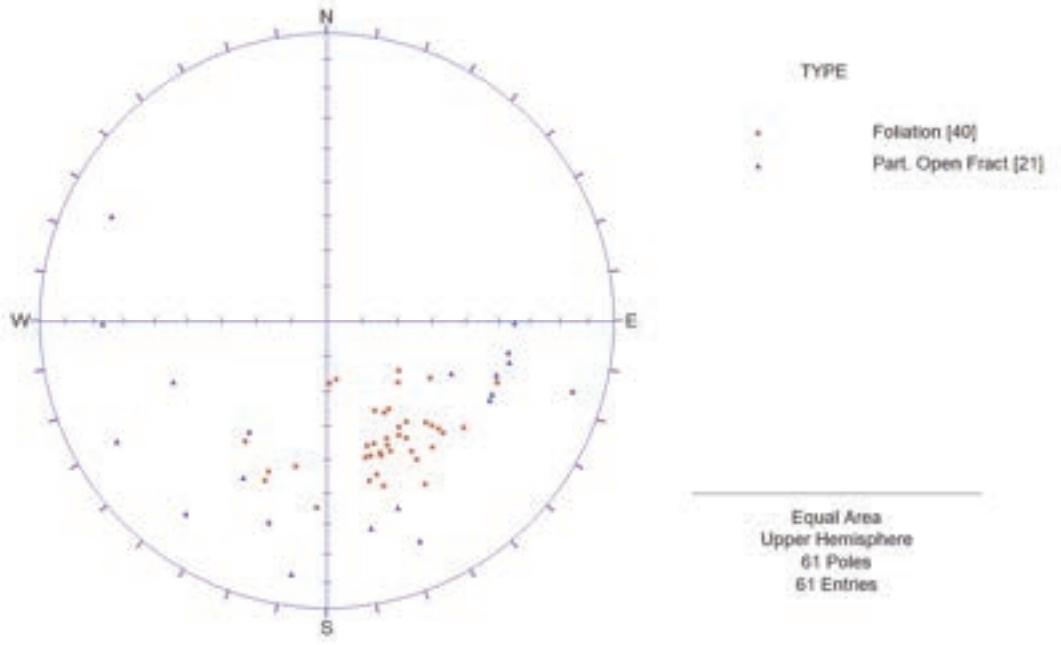

Figure 8E: A polar diagram plotting dip and dip direction of all planes categorized by plane type (DW-04A).

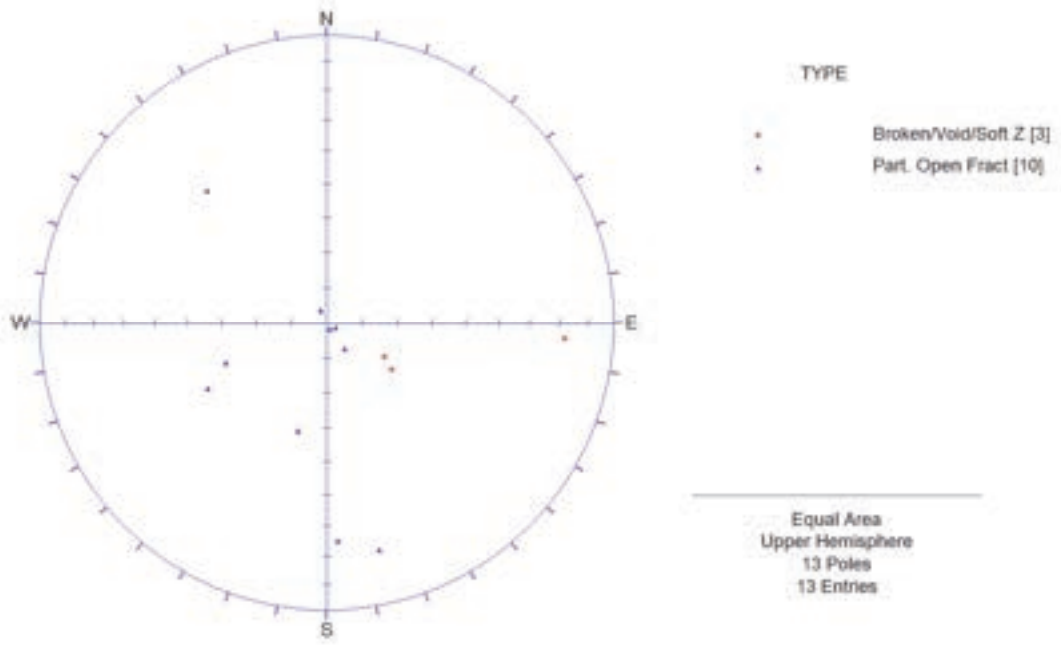

Figure 9F: A polar diagram plotting dip and dip direction of all planes categorized by plane type (DW-04B).

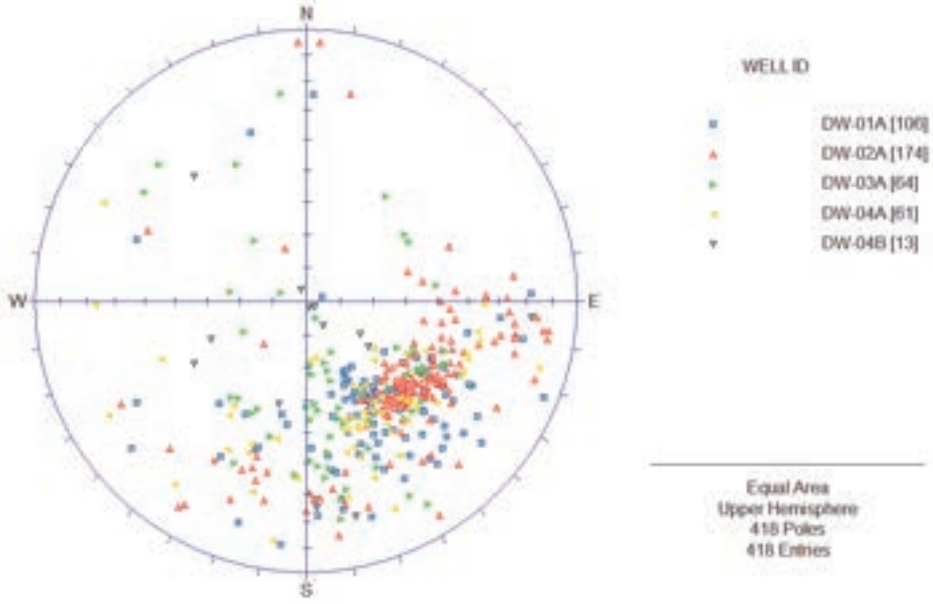

Figure 5: A polar diagram plotting dip and dip direction of all planes categorized by borehole.

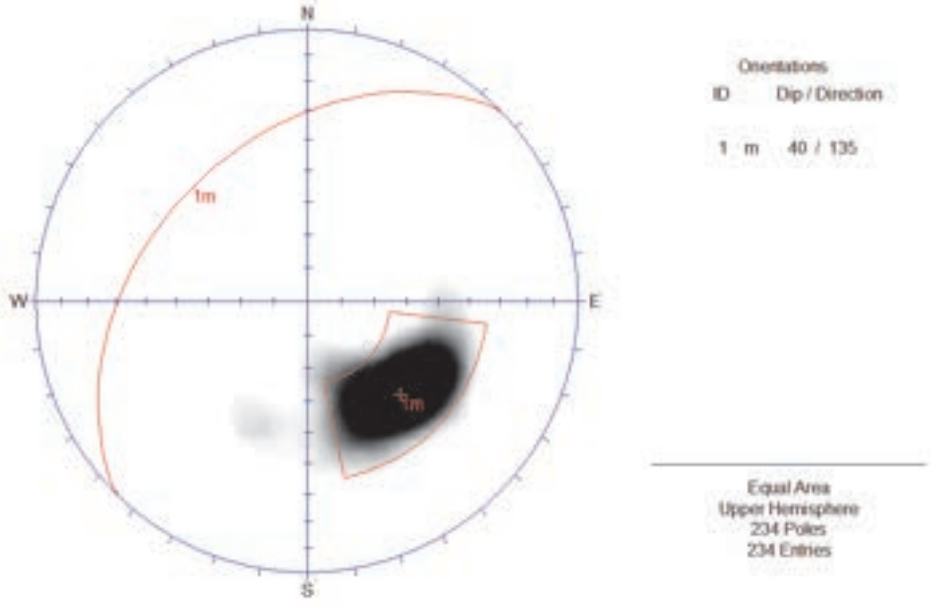

Figure 6A: A polar diagram with statistical contouring of all foliation planes (Sitewide). The calculated mean dip angle and direction is shown at the right of the diagram.

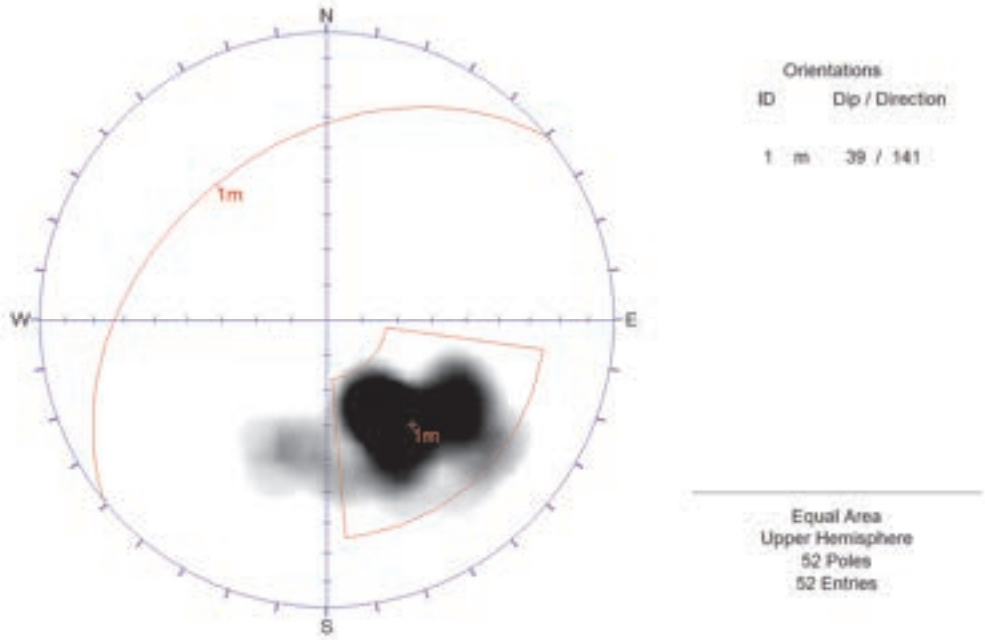

Figure 6B: A polar diagram with statistical contouring of all foliation planes (DW-01A). The calculated mean dip angle and direction is shown at the right of the diagram.

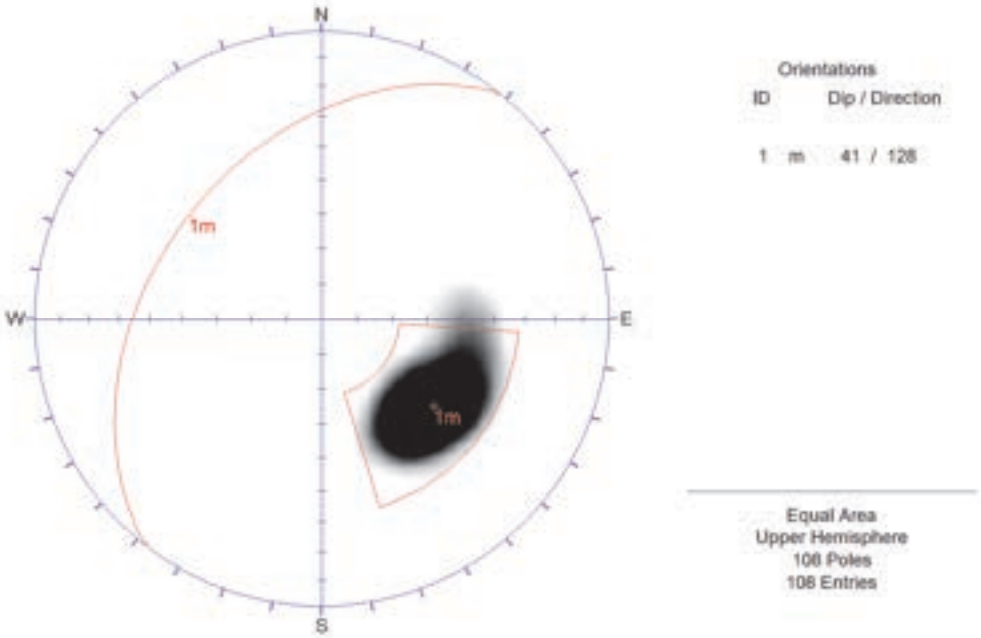

Figure 6C: A polar diagram with statistical contouring of all foliation planes (DW-02A). The calculated mean dip angle and direction is shown at the right of the diagram.

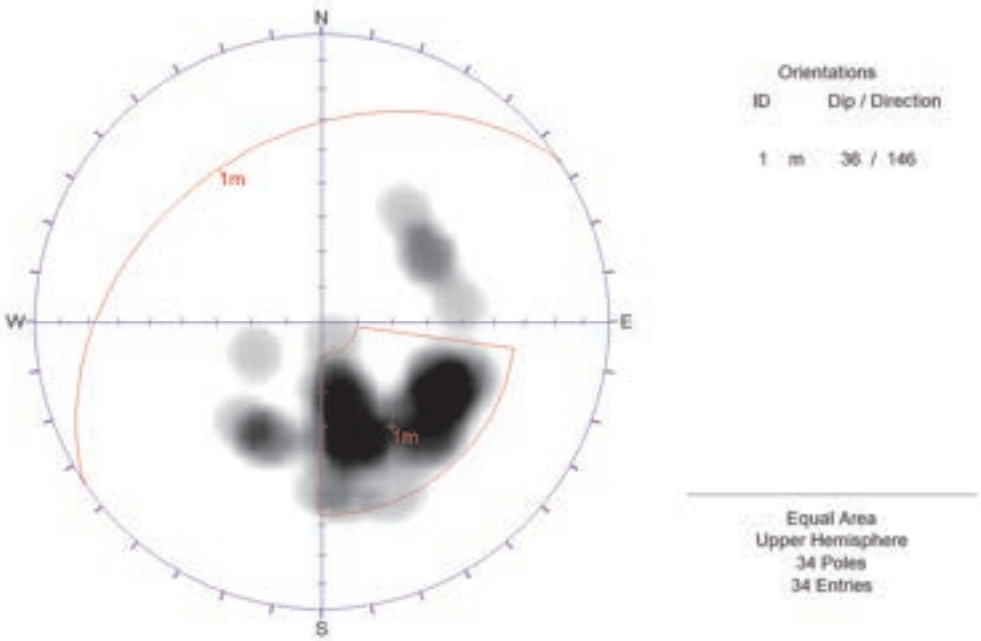

Figure 6D: A polar diagram with statistical contouring of all foliation planes (DW-03A). The calculated mean dip angle and direction is shown at the right of the diagram.

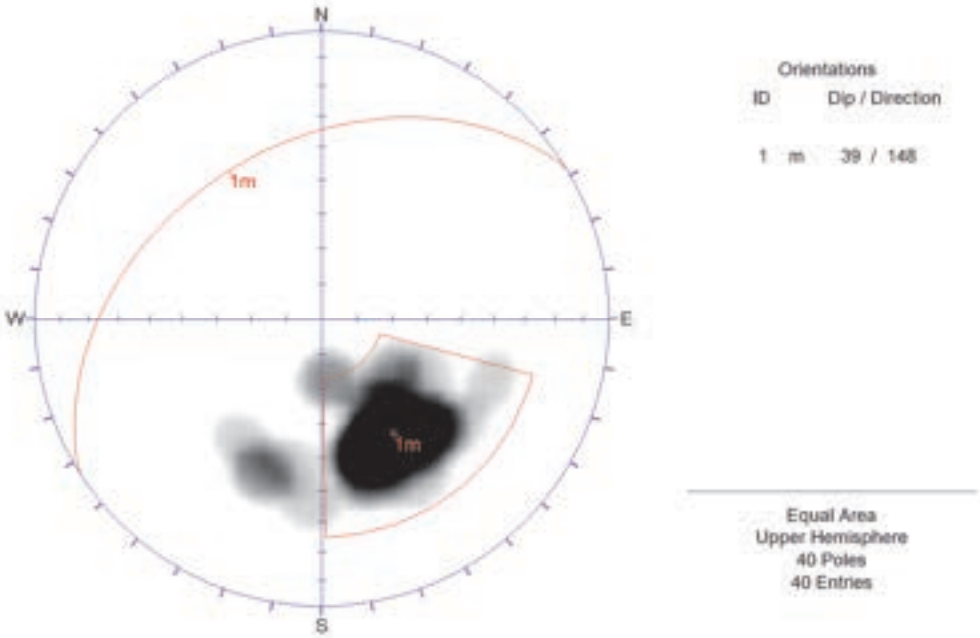

Figure 6E: A polar diagram with statistical contouring of all foliation planes (DW-04A). The calculated mean dip angle and direction is shown at the right of the diagram.

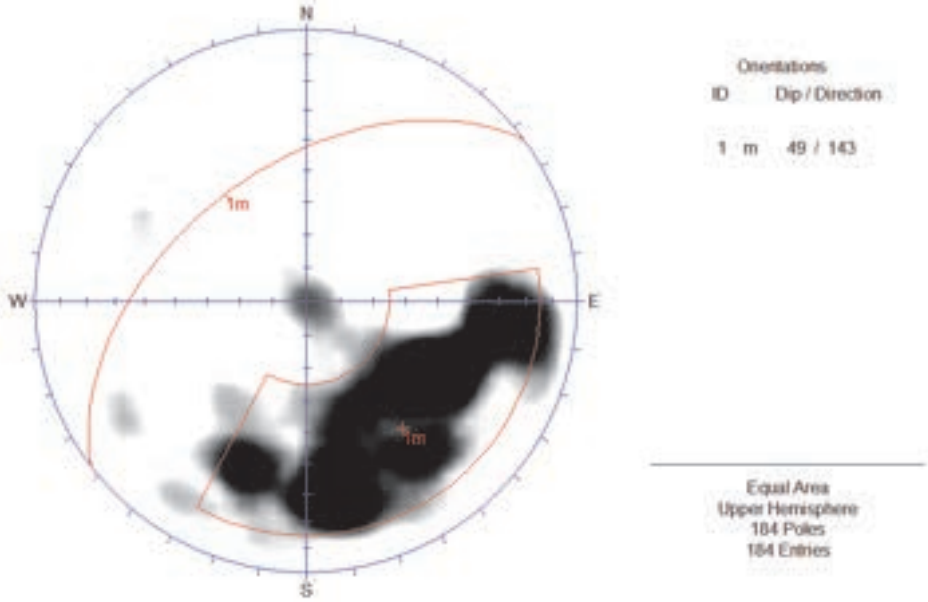

Figure 7A: A polar diagram with statistical contouring of all fracture planes (Sitewide). The calculated mean dip angle and direction is shown at the right of the diagram.

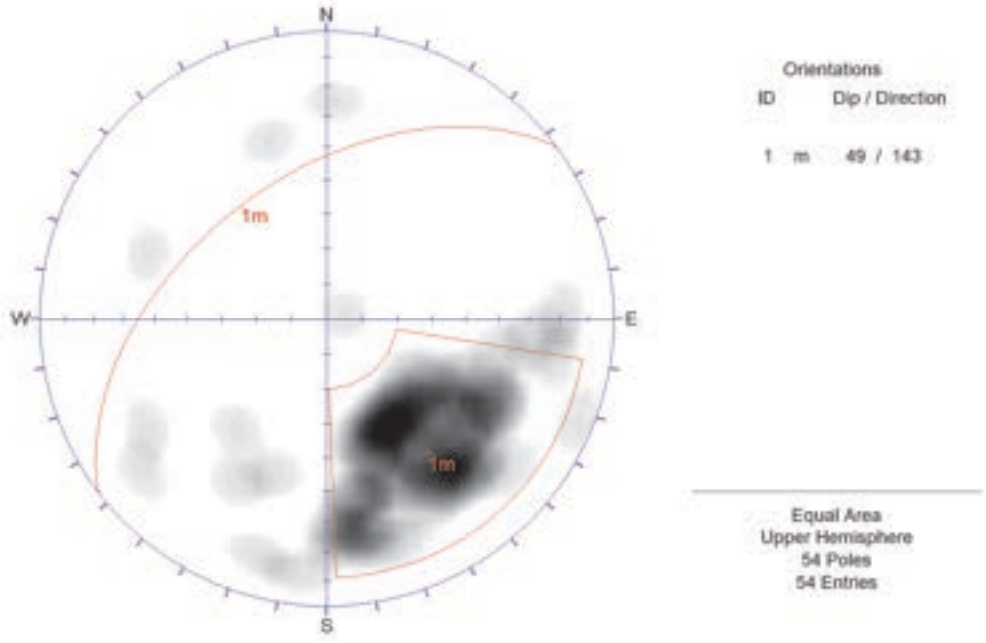

Figure 7B: A polar diagram with statistical contouring of all fracture planes (DW-01A). The calculated mean dip angle and direction is shown at the right of the diagram.

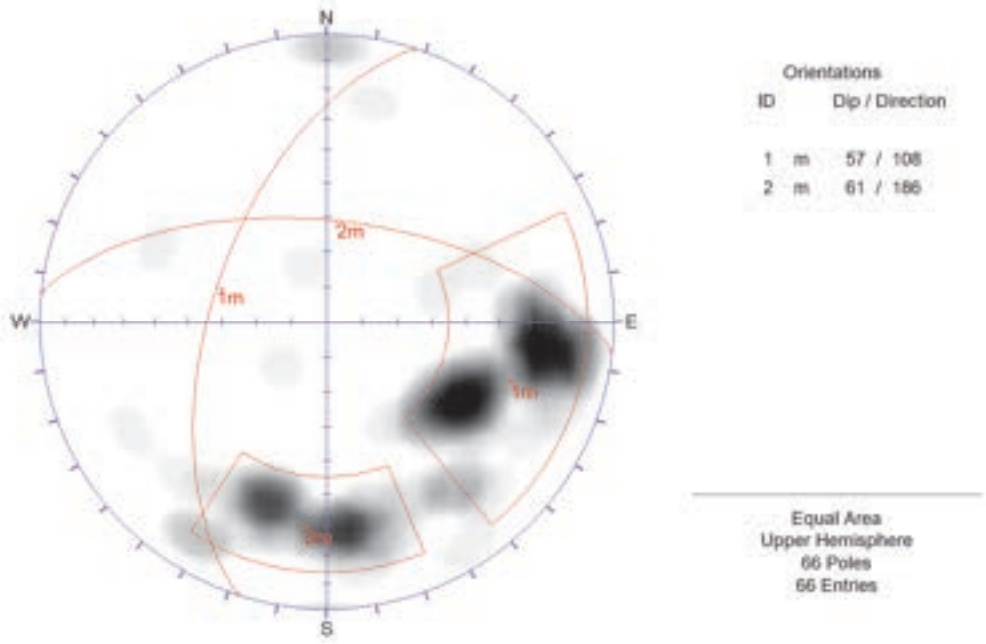

Figure 7C: A polar diagram with statistical contouring of all fracture planes (DW-02A). The calculated mean dip angle and direction is shown at the right of the diagram.

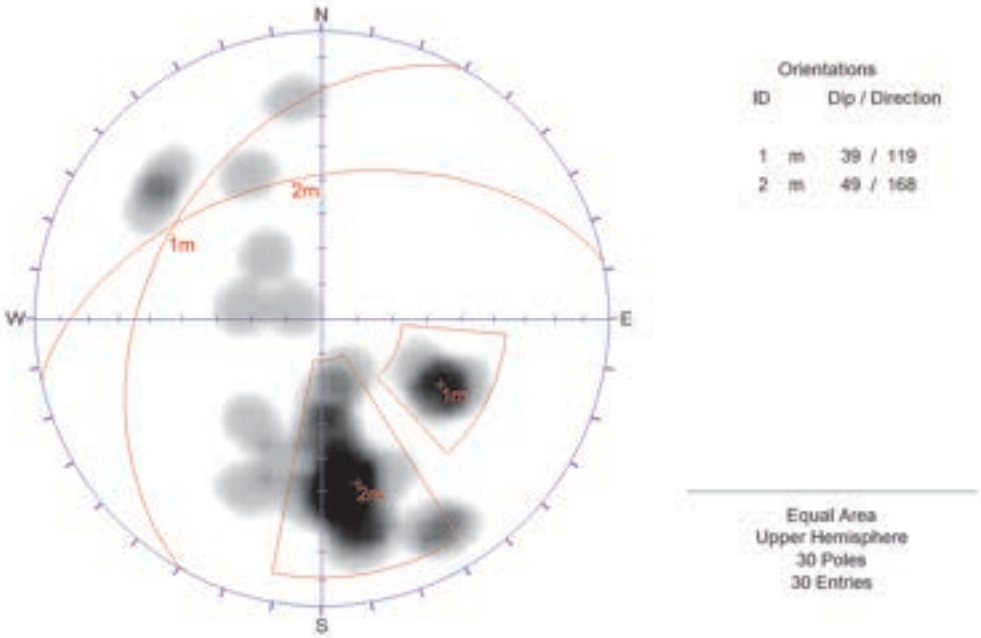

Figure 7D: A polar diagram with statistical contouring of all fracture planes (DW-03A). The calculated mean dip angle and direction is shown at the right of the diagram.

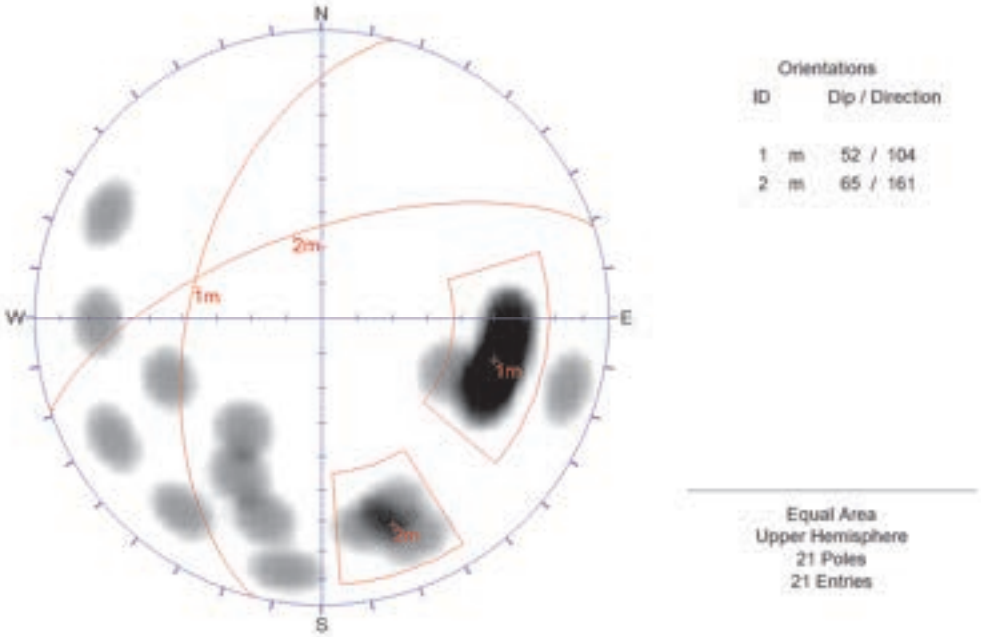

Figure 7E: A polar diagram with statistical contouring of all fracture planes (DW-04A). The calculated mean dip angle and direction is shown at the right of the diagram.

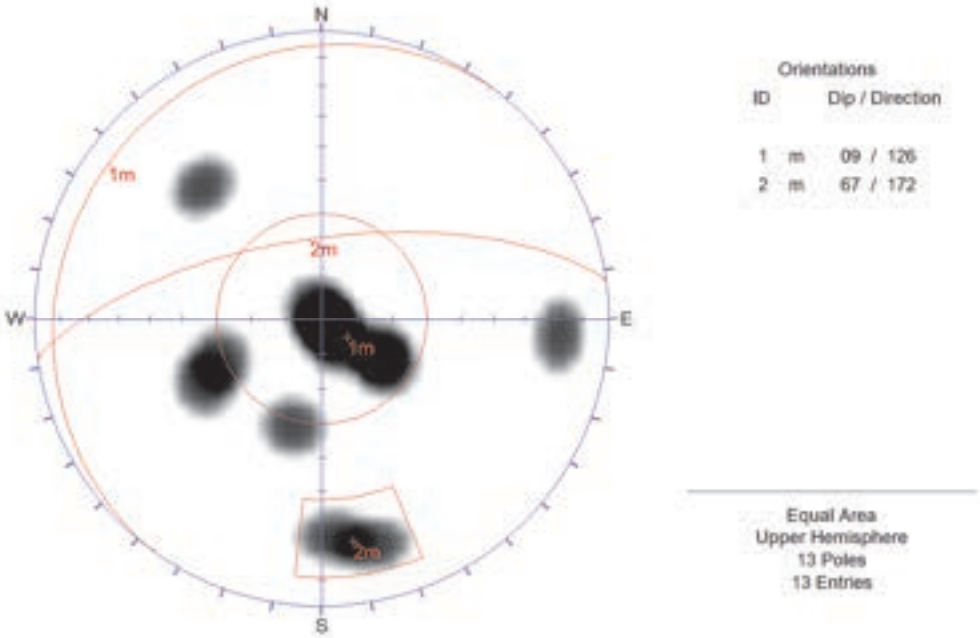

Figure 7F: A polar diagram with statistical contouring of all fracture planes (DW-04B). The calculated mean dip angle and direction is shown at the right of the diagram.

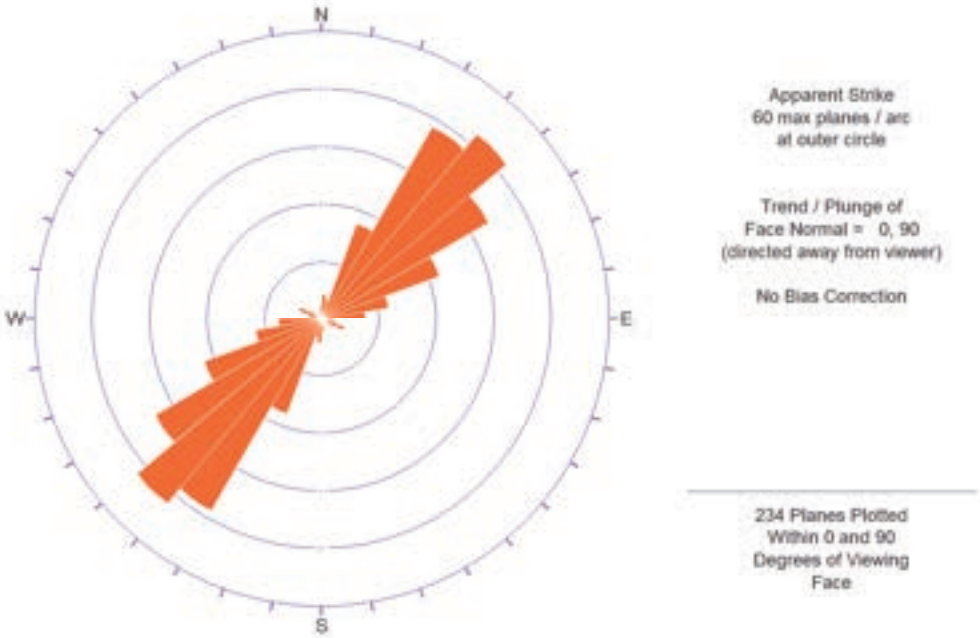

Figure 8A: A rose diagram illustrating strike distribution of all foliation planes (Sitewide).

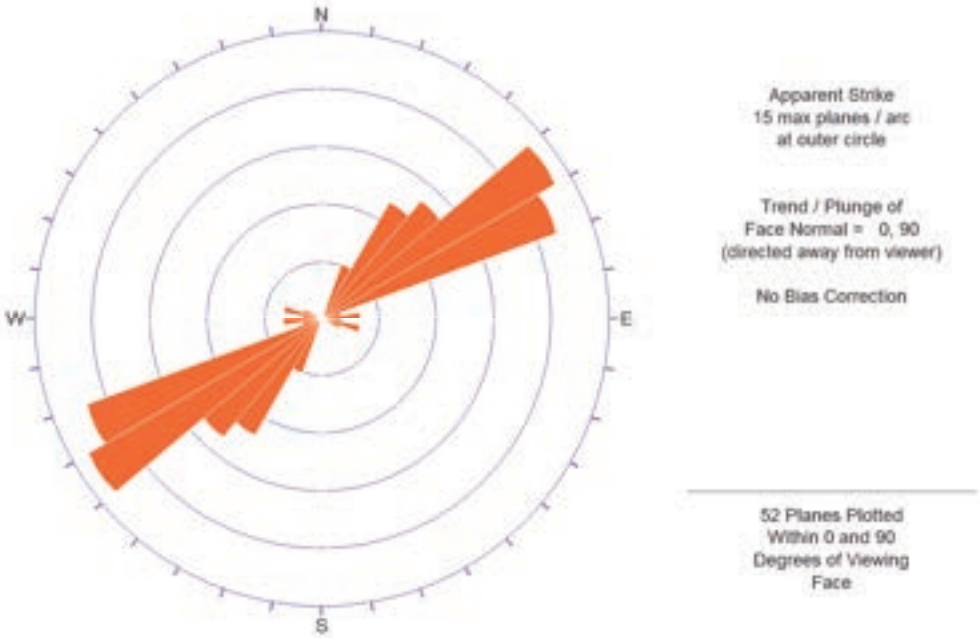

Figure 8B: A rose diagram illustrating strike distribution of all foliation planes (DW-01A).

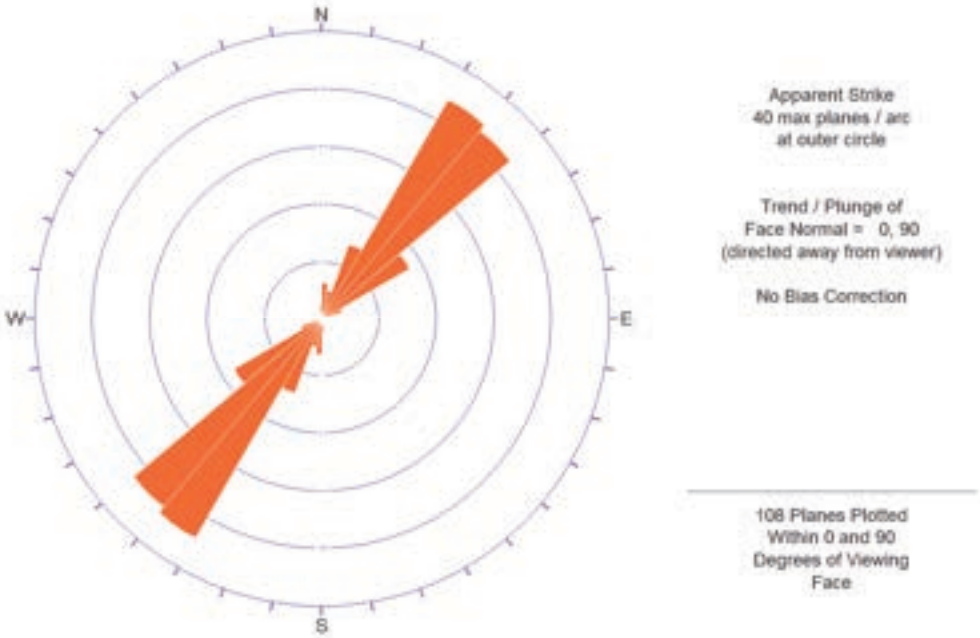

Figure 8C: A rose diagram illustrating strike distribution of all foliation planes (DW-02A).

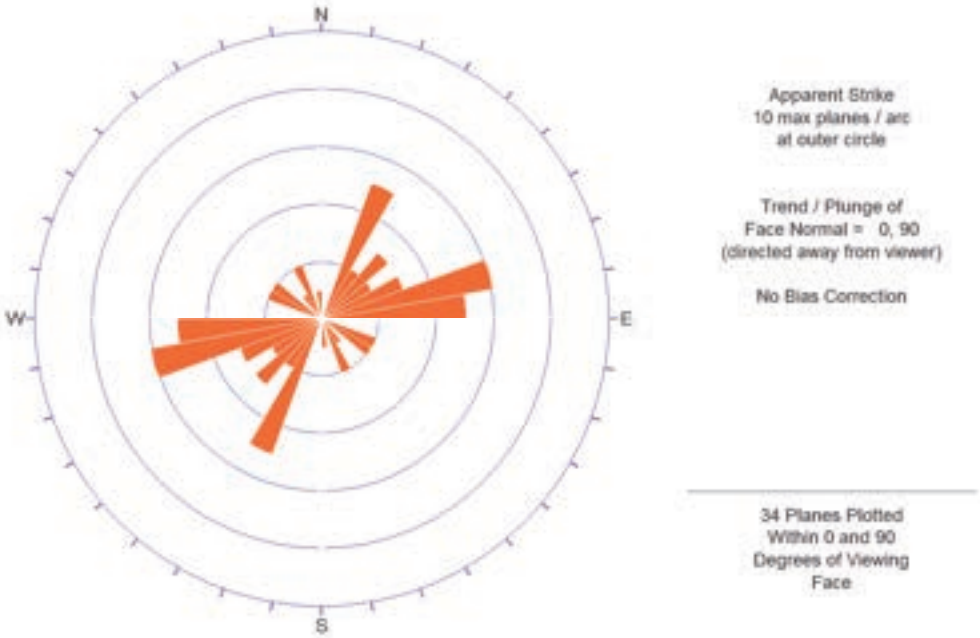

Figure 8D: A rose diagram illustrating strike distribution of all foliation planes (DW-03A).

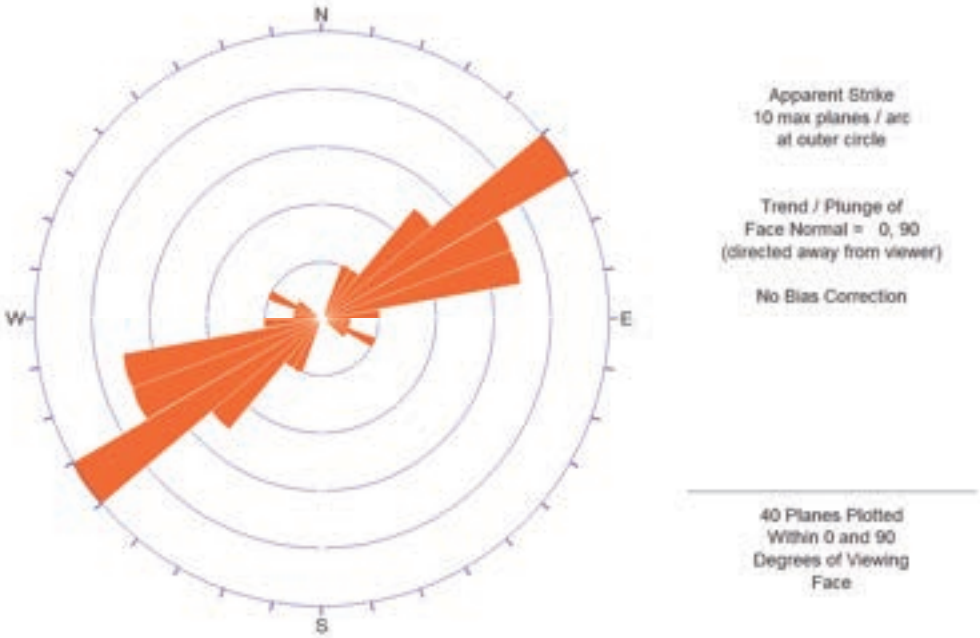

Figure 8E: A rose diagram illustrating strike distribution of all foliation planes (DW-04A).

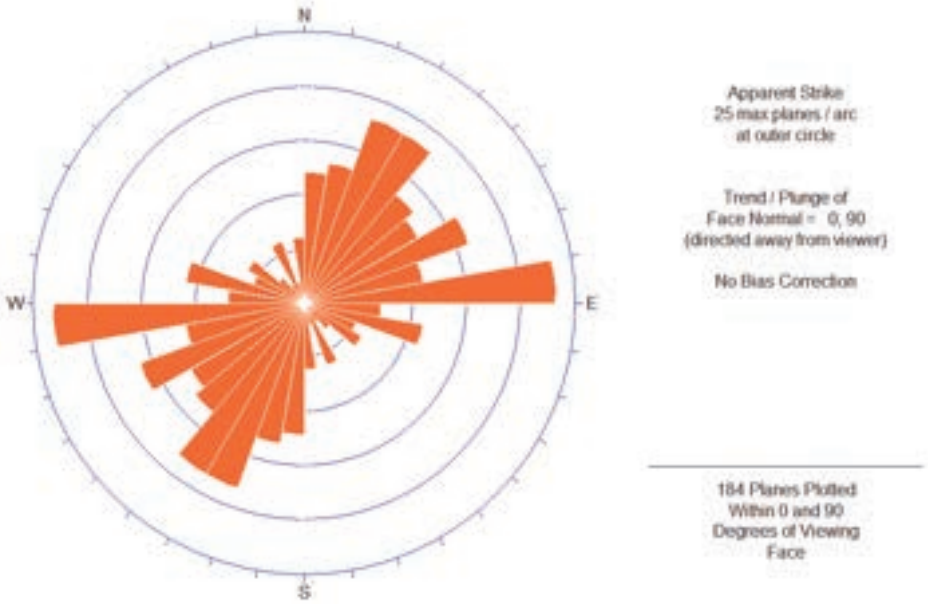

Figure 9A: A rose diagram illustrating strike distribution of all fractures (Sitewide).

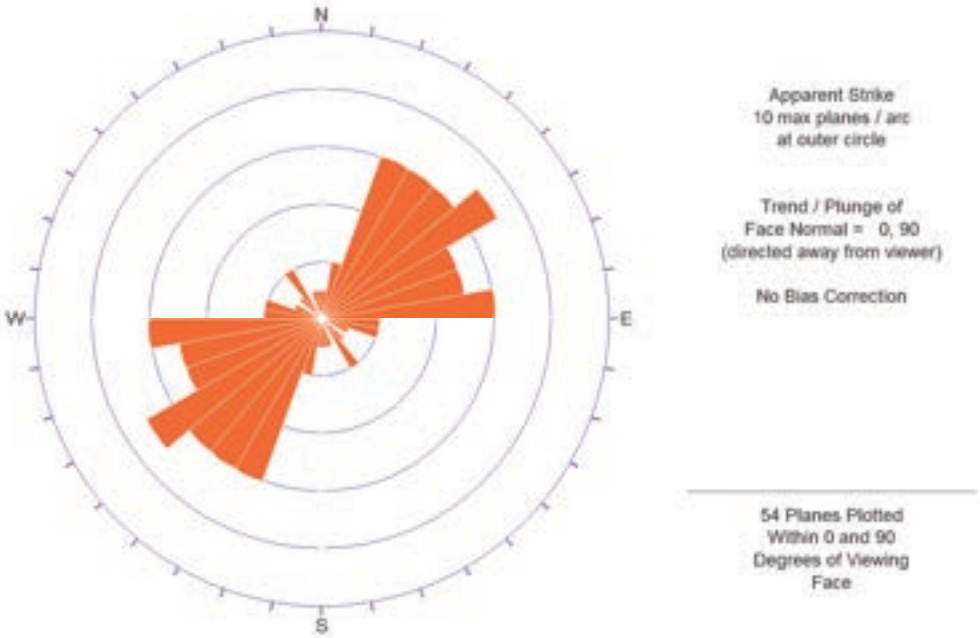

Figure 9B: A rose diagram illustrating strike distribution of all fractures (DW-01A).

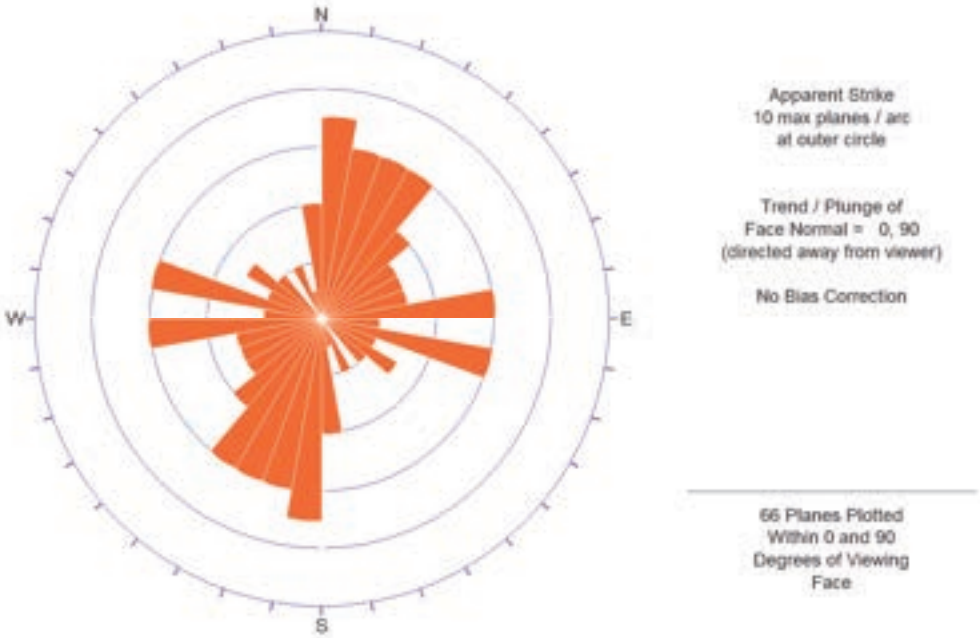

Figure 9C: A rose diagram illustrating strike distribution of all fractures (DW-02A).

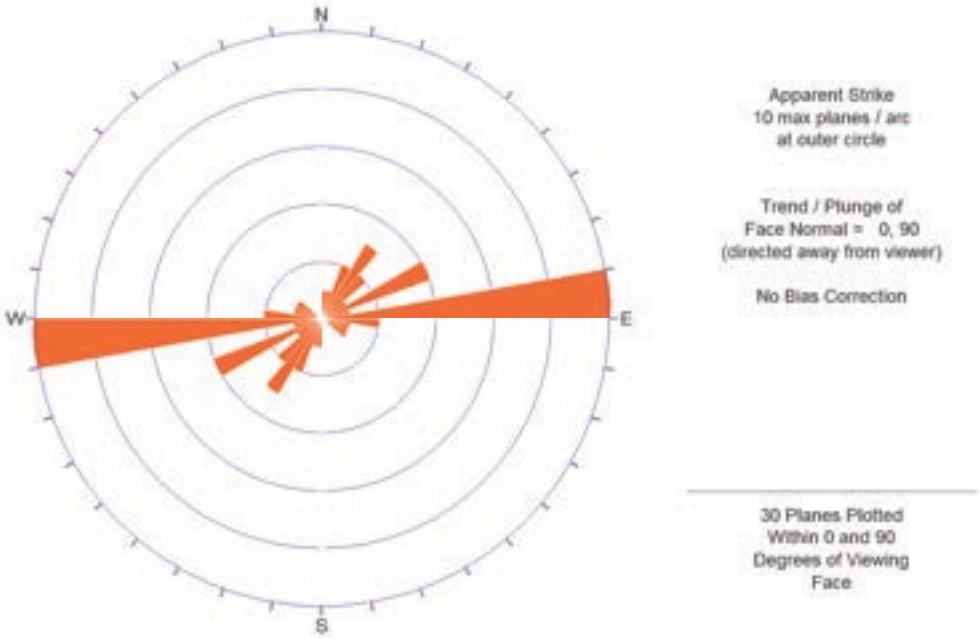

Figure 9D: A rose diagram illustrating strike distribution of all fractures (DW-03A).

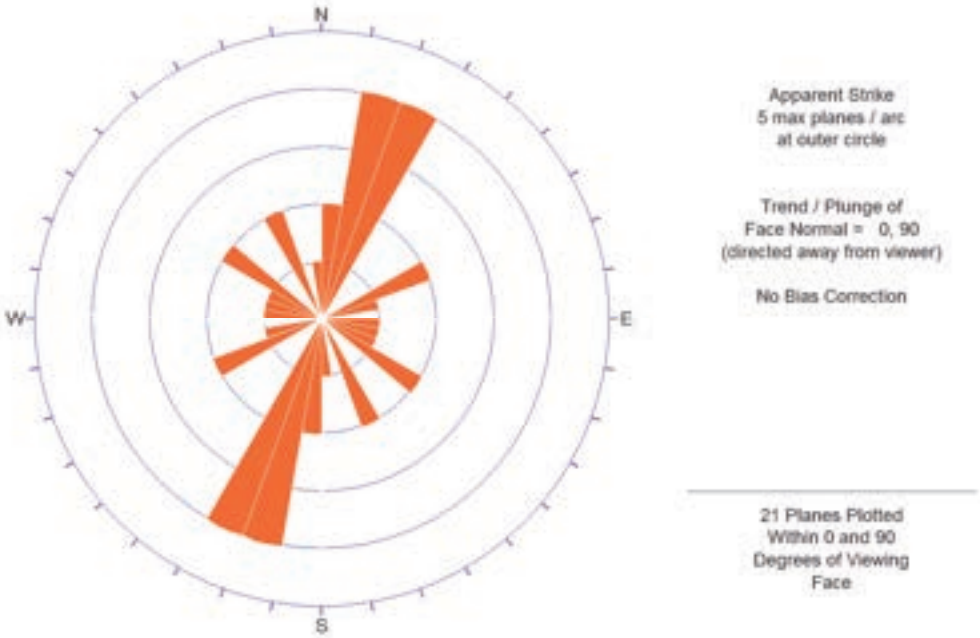

Figure 9E: A rose diagram illustrating strike distribution of all fractures (DW-04A).

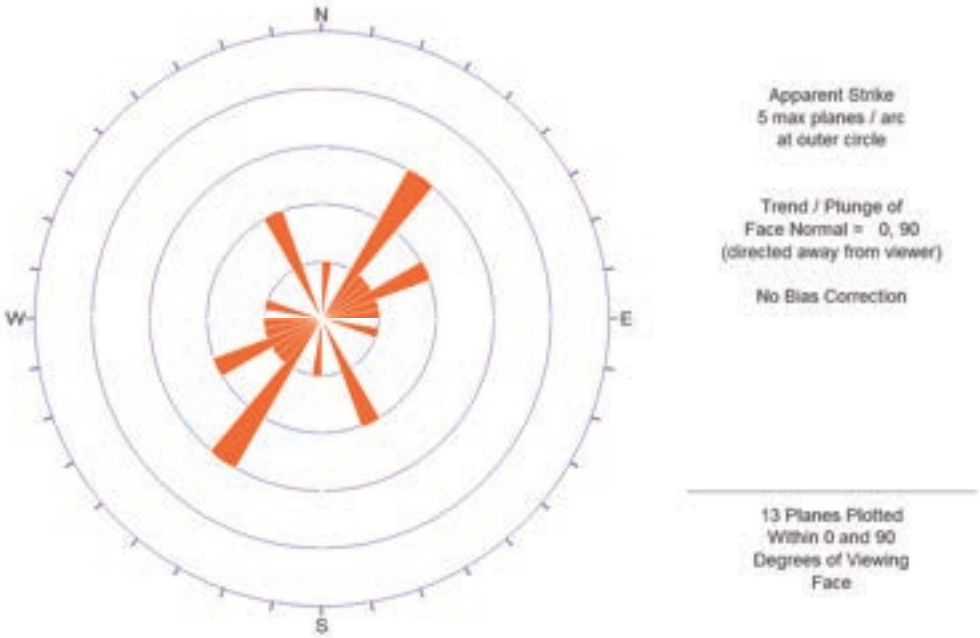

Figure 9F: A rose diagram illustrating strike distribution of all fractures (DW-04B).

ATTACHMENT A
LOGGING METHODS

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APPENDIX A: OVERVIEW OF LOGGING METHODS

CALIPER LOGS

The caliper log measures variations in borehole size as a function of depth in a well. Some example responses of in a caliper log is shown in Figure A- 1 (Rider, 2002[1.]) The log data enables (a) the detection of competent or fractured geologic units, (b) the location of washouts or tight zones, (c) the optimal placement of well screen, sand, and bentonite, and (d) the establishment of appropriate borehole correction factors to be applied to other well log curves. Further, when run in combination with other logs, the caliper log may be an indicator of lithologic makeup and degree of consolidation. The typical caliper response in a fractured, weathered, or karstic unit is a relatively abrupt increase in borehole size.

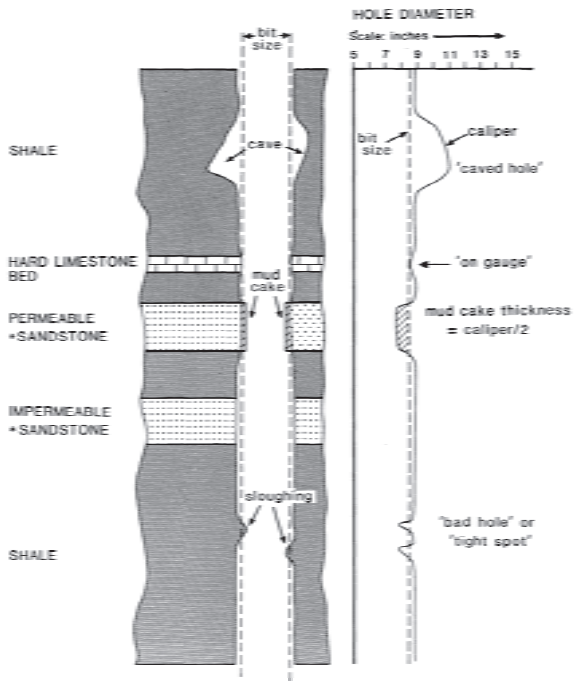


Figure A- 1: The caliper log showing some typical responses. (From Rider, 2002).

SPONTANEOUS POTENTIAL (SP) LOGS

The SP log measures the natural voltages that are created within the borehole due to the presence of borehole fluids, formation fluids, and formation matrix materials. It is recorded by measuring the difference in electrical potential in millivolts between an electrode in the borehole and a grounded electrode at the surface. The SP log is commonly used to 1) detect permeable beds, 2) detect boundaries of permeable beds, 3) determine formation water resistivity, and 4) determine the volume of shale in permeable beds. The constant SP readings observed in thicker shale units define the shale base line, a reference line from which further formation matrix and formation fluid property calculations may be completed. Although this log is consistently used in oil and gas applications, its effectiveness in water wells is limited since the method requires a contrast in salinity between borehole and formation fluids (Figure A- 2). This condition is often not met in ground water wells.

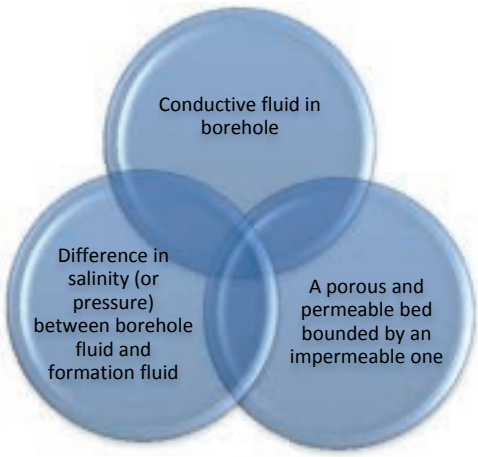


Figure A- 2: Conditions required to produce an SP response.

1 Rider, M. (2006) The Geological Interpretation of Well Logs, *Rider-French Consulting, Ltd*., 280pp.

The SP log can be qualitatively used for permeability recognition. SP deflections from the shale base line commonly indicate the presence of a permeable bed. The magnitude and direction of the deflection is dependent upon the relative resistivity (or salinity) values of the borehole fluid and the formation fluid. If the formation fluid resistivity is less than the borehole fluid resistivity, then the relative SP values will decrease in a porous, coarse-grained unit. Alternately, if the formation fluid resistivity is greater than the borehole fluid resistivity, the relative SP values will increase in the same body, and the curve shape is referred to as a "reversed SP". If both fluid resistivities are equal, no SP deflection will occur.

GAMMA RAY LOGS

The gamma ray log is a passive instrument that measures the amount of naturally occurring radioactivity from geologic units within the borehole. Commonly occurring radioelements include potassium, thorium, and uranium; the two former elements are predominant within a common fine-grained rock sequence. The gamma ray log is also an excellent lithologic indicator because fine-grained clays and shales contain a higher radioelement concentration than limestones or sands. Gamma ray values are often used to assess the percentage of clay materials (indurated or non-indurated) that are present within a formation by utilizing empirically derived equations and sand-shale base line information.

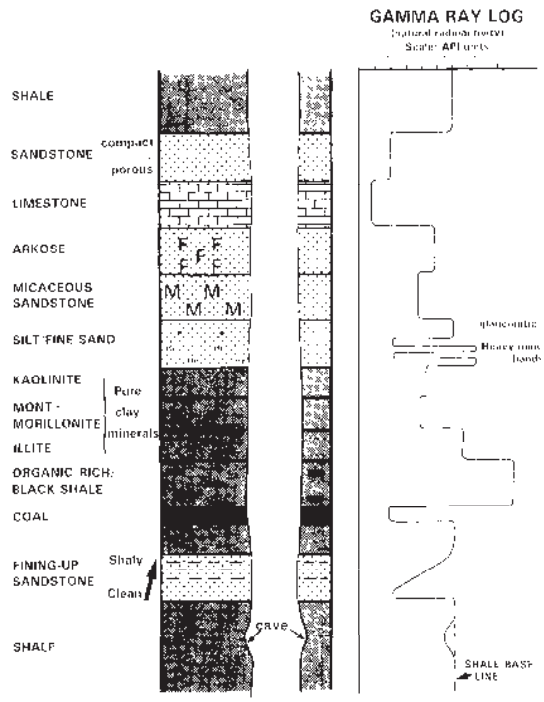


Figure A- 3: Characteristic gamma ray responses. (From Rider, 2002).

NORMAL RESISTIVITY LOGS

Resistivity is a measure of how well an electric current passes through a material. Formation resistivity is an intrinsic property of rocks and depends on the porosity and resistivity of the interstitial fluid and rock matrix. The spacing between the transmitter and receiver on the tool determines the depth of investigation into the surrounding formation; the greater the spacing, the deeper the penetration of electrical current into the formation.

In sedimentary rocks, the resistivity values of shales (5 - 30 ohm-m) is generally lower than the resistivity of sandstone (30 – 100 ohm-m), which is lower than the resistivity limestone (75 – 300 ohm-m). The resistivity log often shows a picture of the overall depositional sequence in sedimentary environment. Resistivity of igneous and metamorphic rocks is extremely high when compared to resistivity in sedimentary rocks, with values that are commonly thousands of ohm-meters. Example resistivity log responses are shown in Figure A- 4.

FLUID RESISTIVITY LOGS

Fluid resistivity, which is the reciprocal of fluid conductivity, provides data related to the concentration of dissolved solids in the fluid column. Although the quality of the fluid column may not reflect the quality of adjacent

interstitial fluids, information can be quite useful when combined with other logs. For example, change in fluid resistivity associated with a water-producing zone that is corroborated by other logs may indicate the inflow of ground water.

SINGLE-POINT RESISTANCE LOGS

Single point resistance measurements are made by passing a constant current between two electrodes and recording the voltage fluctuations as the probe is moved up the borehole. The resistance variations measured in the borehole is primarily due to variations in the immediate vicinity of the downhole electrode.

The resistance log is strongly affected by the resistance of the drilling fluid and variations in borehole diameter. It is extremely useful for detecting fractures in boreholes with relatively constant diameter. In sedimentary environments, the resistance log generally follows the variations in resistivity of the formation. Shales in clay generally exhibit low values, sandstones have intermediate values, while coal and limestone beds have high resistance values.

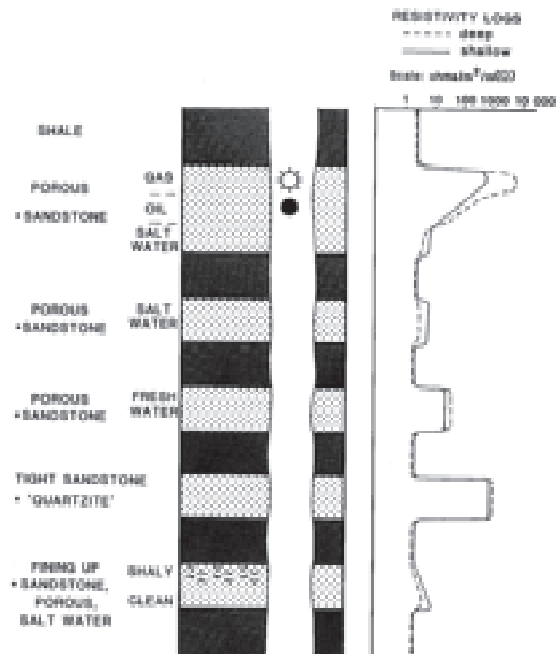


Figure A- 4: Characteristic resistivity responses. (From Rider, 2002)

TEMPERATURE LOGS

Temperature logs measure the change in fluid temperature within the borehole as a function of depth. This log can indicate the location of water- producing strata or fracture zones within the well. The inherent assumption of this technique is that the fluids entering the borehole from water producing zones are either cooler or warmer than the fluid in the borehole. In this case, it is possible to relate a temperature anomaly to a depth range in which waters of different temperature are emanating from a water-producing/receiving or fractured lithologic unit.

HEAT PULSE FLOWMETER (HPFM) LOGS

The heat pulse flowmeter measures the vertical flow rates within a borehole. The log may be used to identify contributing fracture zones under natural and pumping conditions. The system operates by heating a wire grid that is located between two thermistors. The heated body of water moves toward one of the thermistors under the effect of the vertical component of flow within the well. Positive and negative values on the log represent upward and downward flow, respectively. Measurements are recorded while the tool is stationary and the logs are presented as a bar graph (mud log) as shown in Figure A- 5.

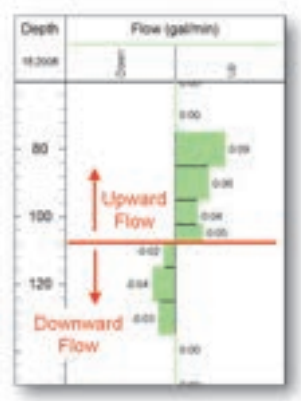


Figure A- 5: Example heat pulse flowmeter log.

A number of techniques have been attempted for measuring horizontal flow in wells without much success. The techniques may not represent the true hydrogeologic conditions due to variations in flow caused by the well.

OPTICAL TELEVIEWER (OTV) LOGS

The optical televiewer probe combines the axial view of a downward looking digital imaging system with a precision ground hyperbolic mirror to obtain an undistorted 360° view of the borehole wall. The probe records one 360° line of pixels at 0.003-ft depth intervals. The sample circle can be divided into 720 or 360 radial samples to give 0.5° or 1° radial resolution. For this investigation, the highest radial resolution (0.5°) was used. The line of pixels is aligned with respect to True North and digitally stacked to construct a complete, undistorted, and oriented image of the borehole walls. The data are 24 -bit true color and may be used for lithologic determination as part of the interpretation. Since the acquired image is digitized and properly oriented with respect to borehole deviation and tool rotation, it allows data processing to provide accurate strike and dip information of structural features. The borehole image is often shown as an "unwrapped" 360° image in which the cylindrical borehole image is sliced down the northern axis and flattened out as shown in Figure A- 6.

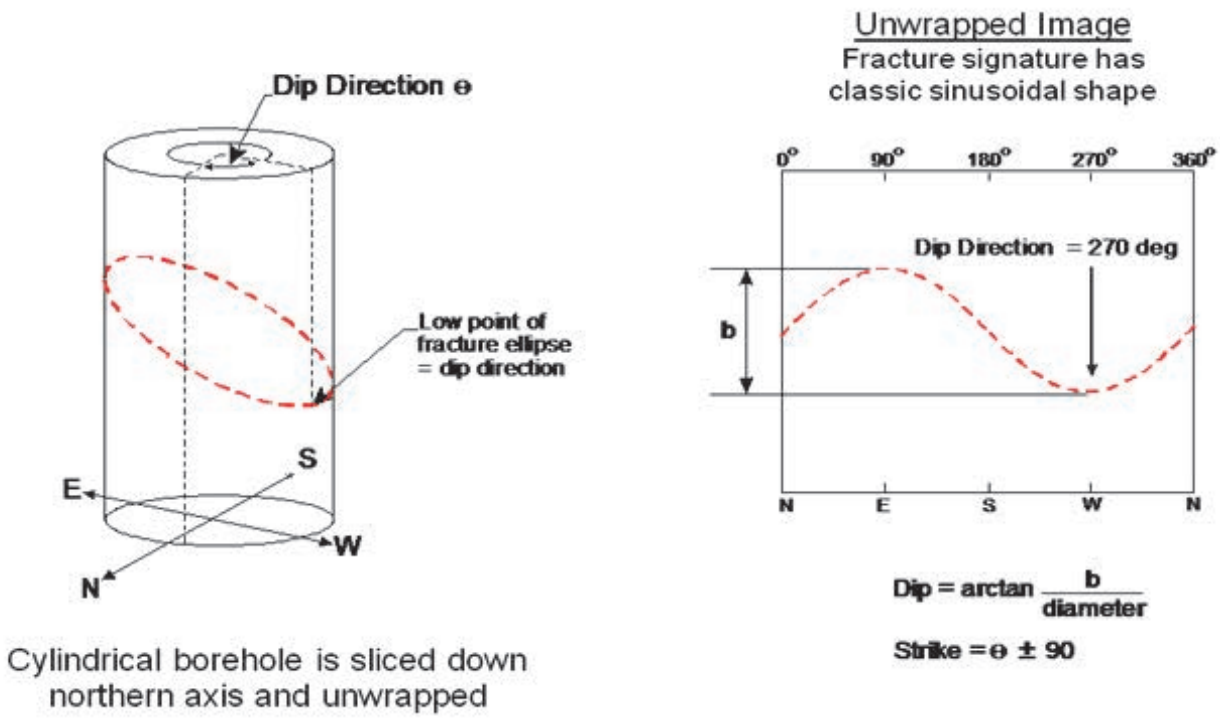


Figure A- 6: Schematic showing the sinusoidal fracture signature in the unwrapped borehole view.

ACOUSTIC TELEVIEWER (ATV) LOGS

Acoustic televiewer provides a 360° acoustic image of the borehole walls that can be used to identify and determine the orientation of planar features such as bedding and fractures. The data can also indicate the relative degree of hardness of formation materials. As shown in Figure A-7, Ultrasonic pulses are transmitted from a rotating transducer inside the tool. The transmitted pulses reflect off the borehole wall and return to the tool where the travel time and amplitude of the acoustic signal are measured. In order for the acoustic waves to travel to and from the borehole wall, the well must be fluid filled. Greater travel time can indicate openings in the rock. Strong amplitude suggests smooth, competent rock. Weaker amplitudes suggest rough or less competent rock.

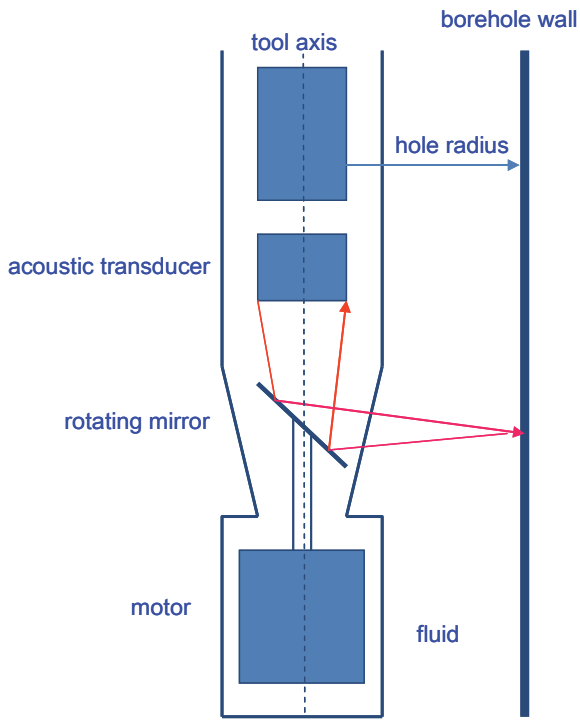


Figure A- 7: Schematic of the acoustic televiewer tool.

ATTACHMENT B
BOREHOLE LOGS

DW-01A

Hydro Log

COMP	Greene Environmental
WELL	DW-01A
FLD	Vinton
CNTY	Bedford
STAT	VA
ARM	170607
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-01A ARM NO.: 170607
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Bedford

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

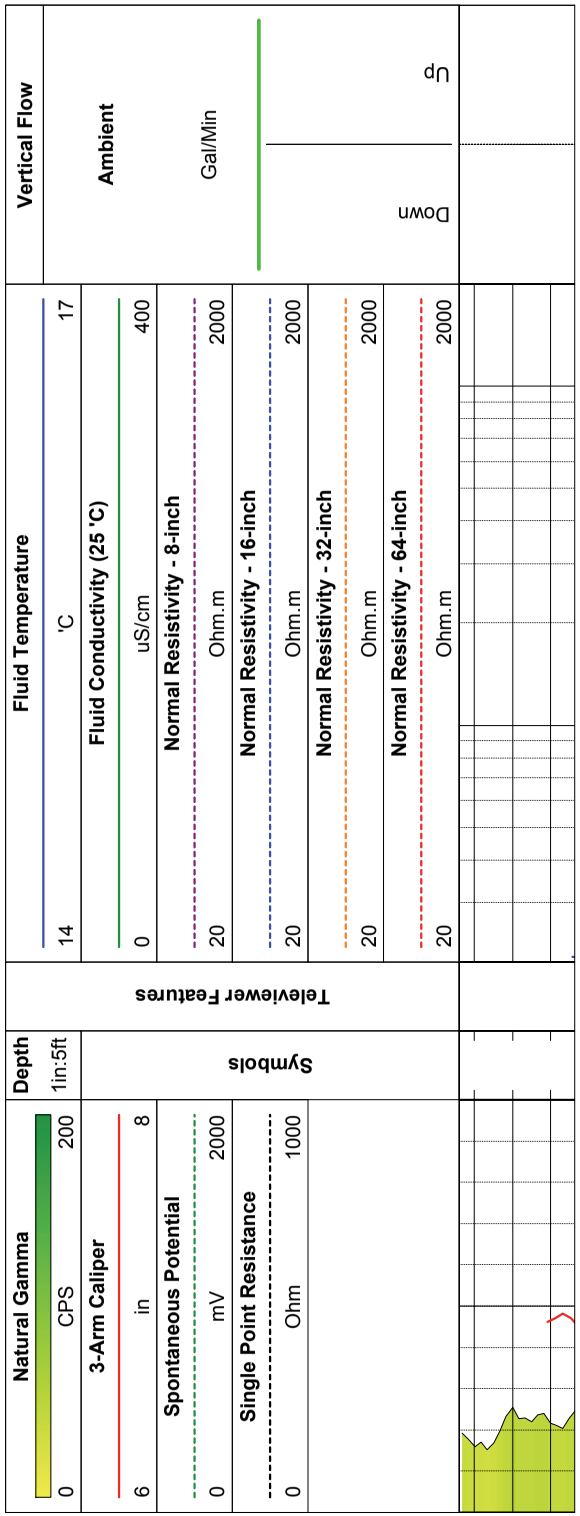
OTHER SERVICES

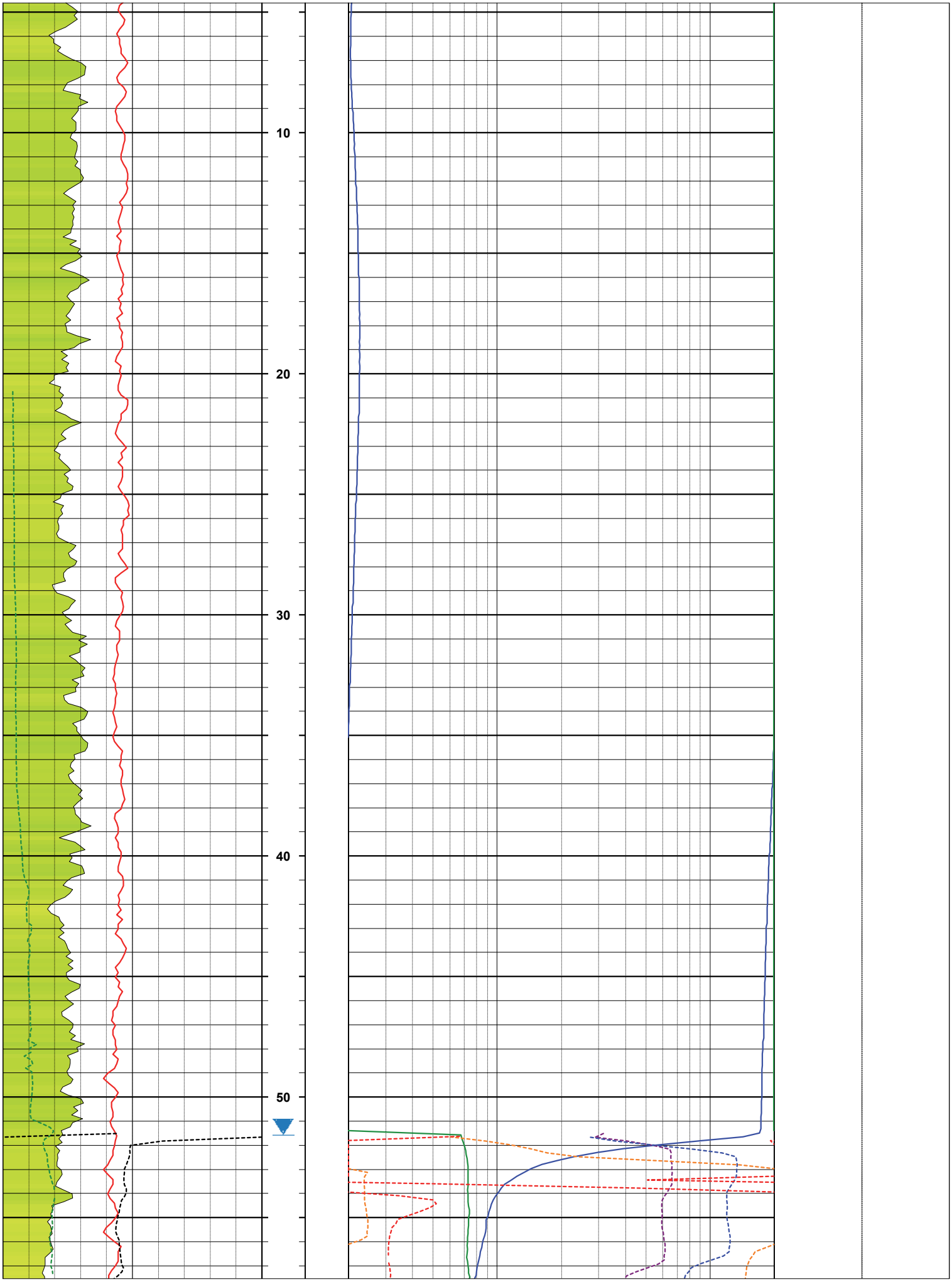
PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.6 G.L.

LOGGING DATE	11.28.2017	11.29.2017	11.29.2017	11.29.2017	
RUN NO	1	4	5	6	
TYPE LOG	FTC.GR	CAL	RES	HPFM A	
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	291.75	292	292	N/A	
BTM LOGGED INTERVAL (FT)	297.58	292	292	285.02	
TOP LOGGED INTERVAL (FT)	4.53	5.08	26.88	86	
CASING SIZE (IN)/DEPTH (FT)	6/	6/	6/	6/	
CASING ARM (FT)	87.75	87.75	87.75	87.75	
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	51.51				
MAG. DECLINATION (DEG)	8.77 W	8.77 W	8.77 W	8.77 W	
RECORDED BY	D. Rajkovic	D. Rajkovic	D. Rajkovic	D. Rajkovic	
WITNESSED BY					

REMARKS:

Symbols
Bottom of Casing
Fluid Level

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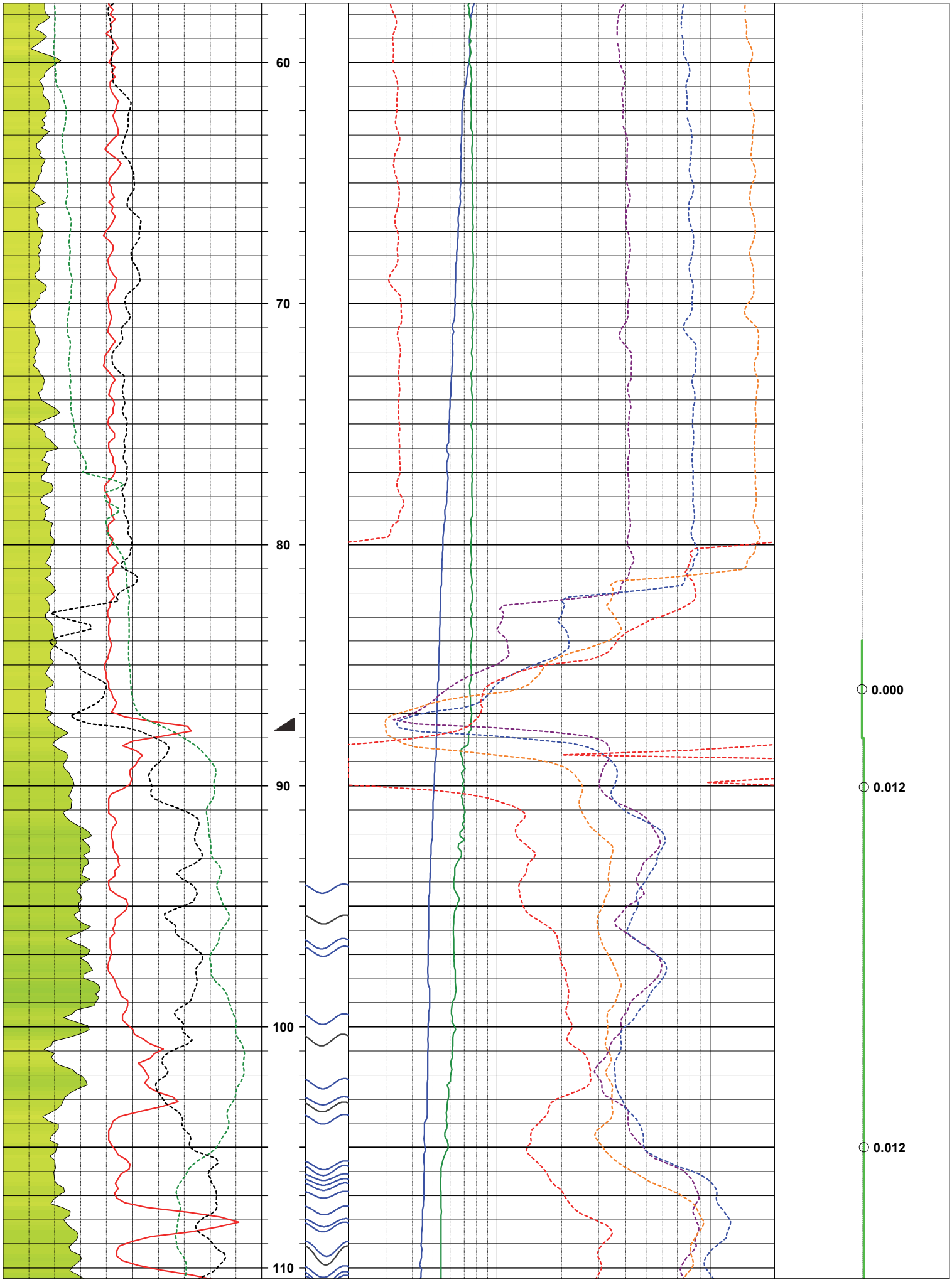
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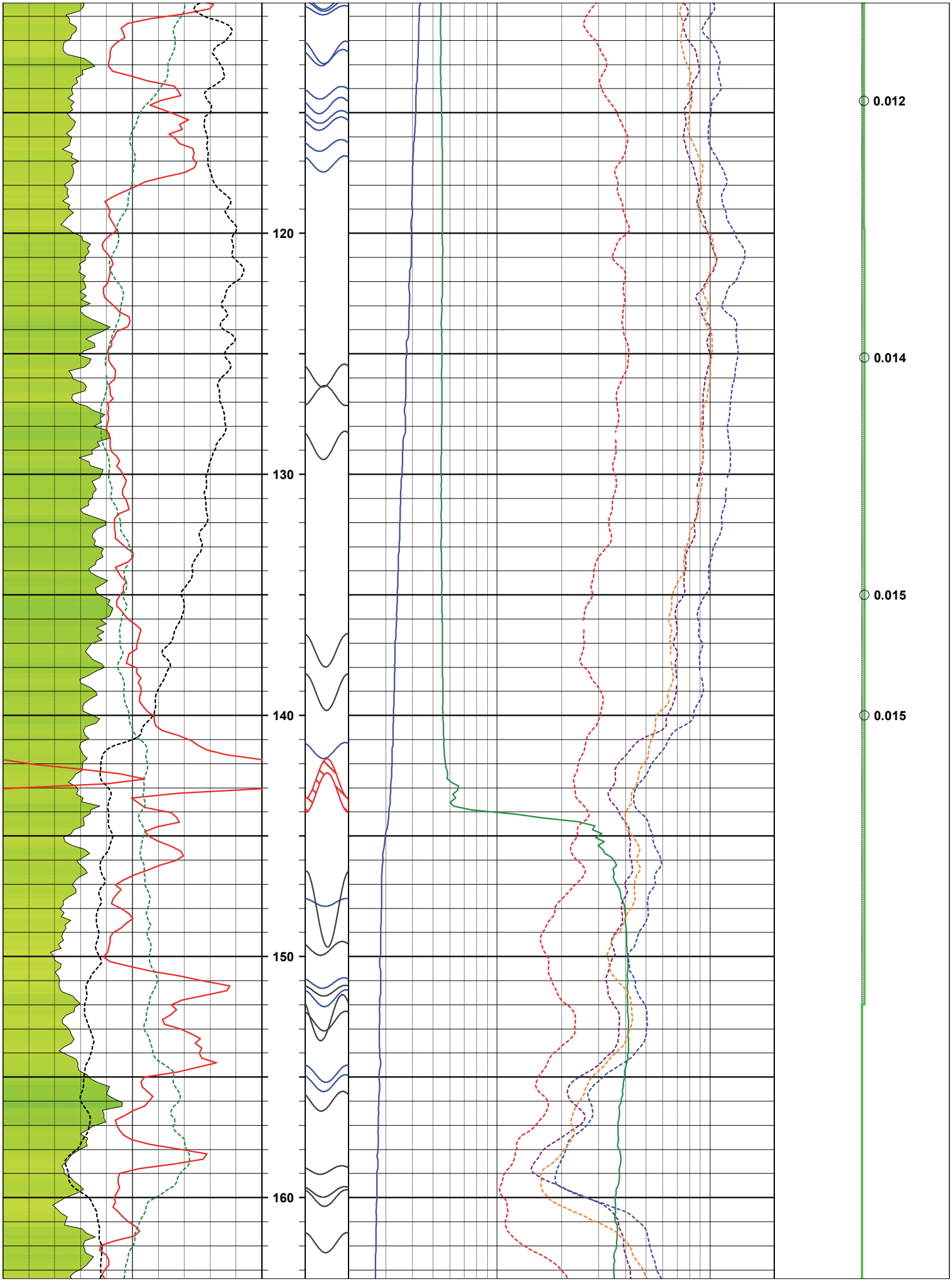
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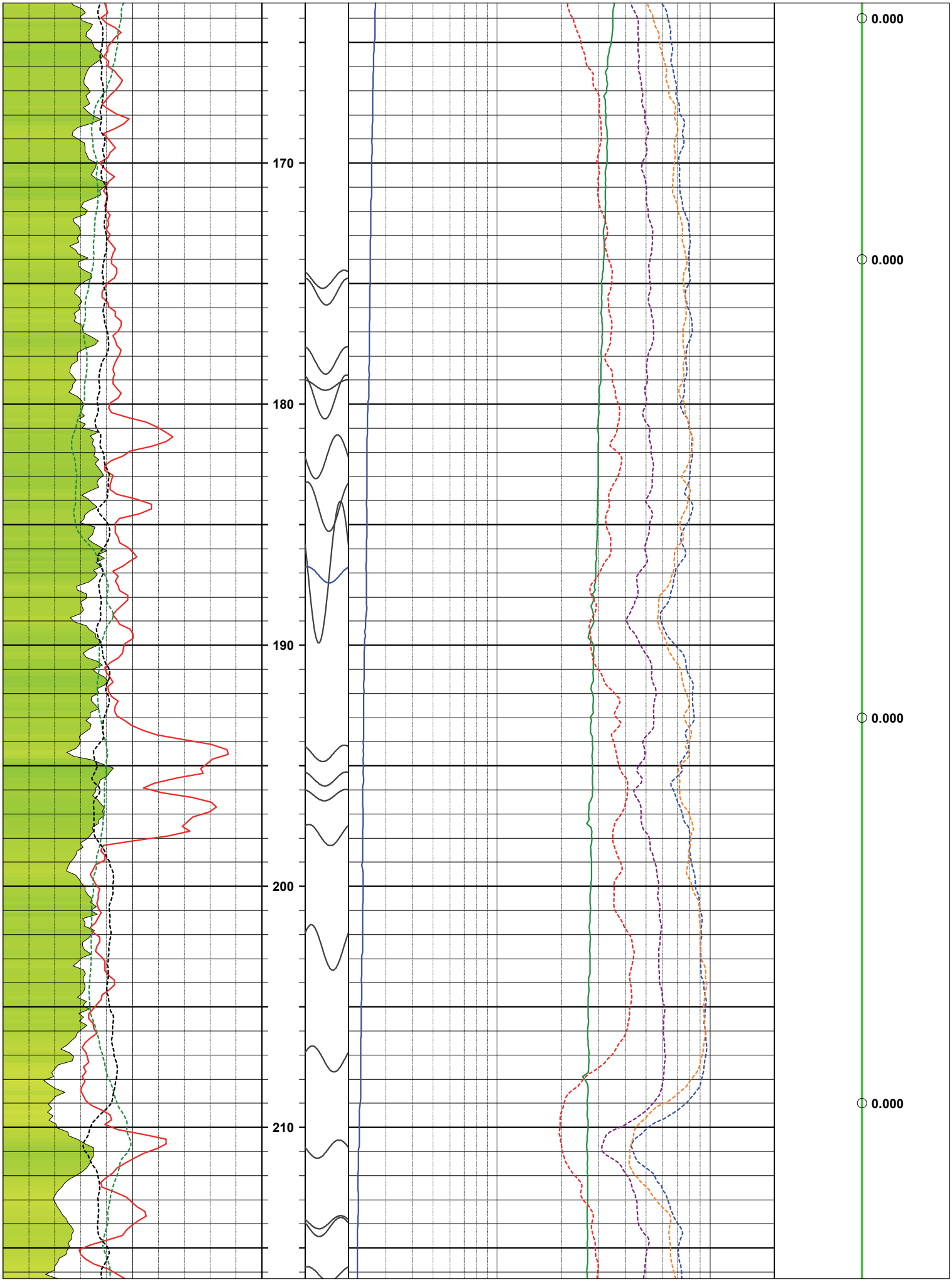
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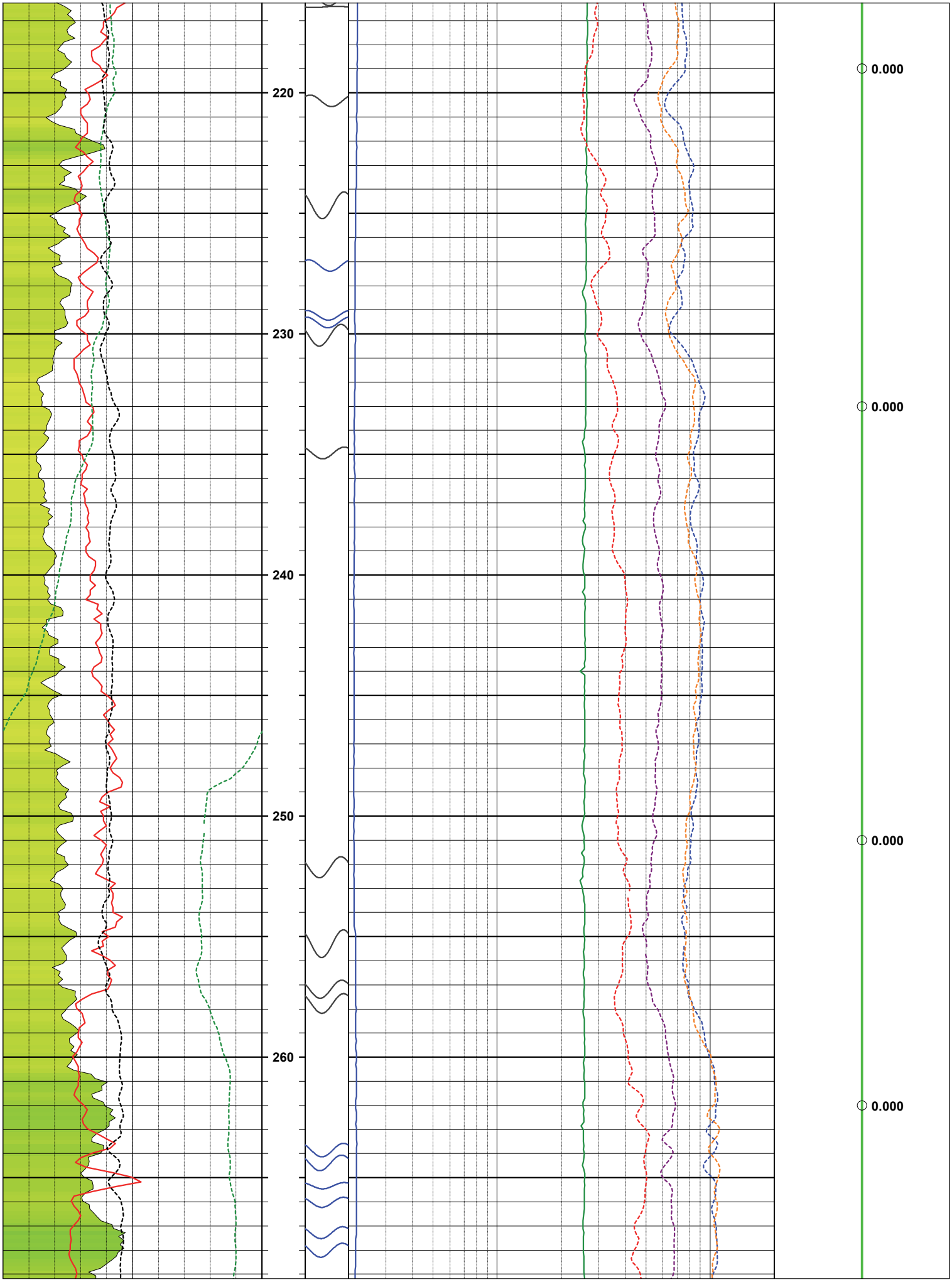
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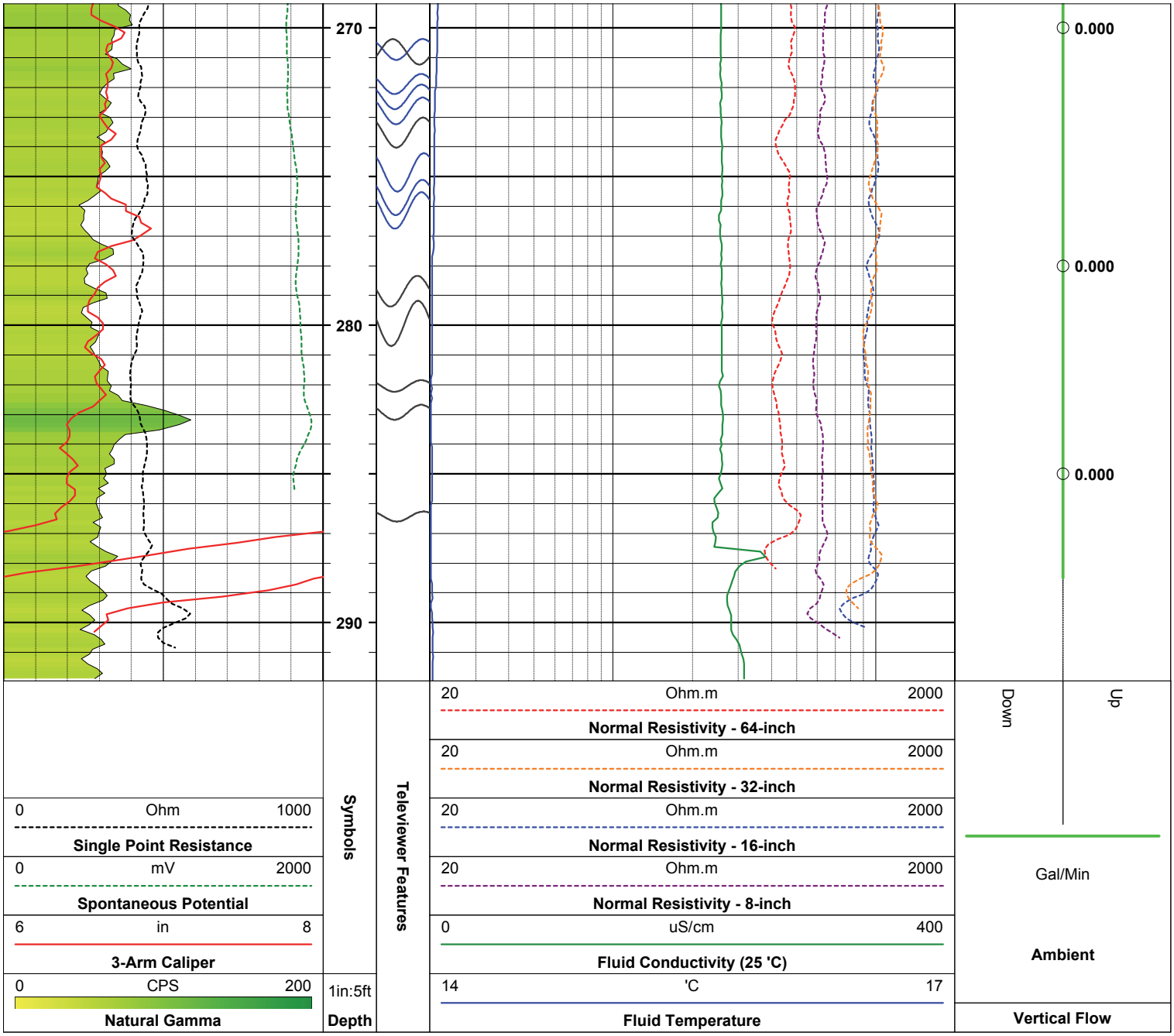
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0 Ohm 1000
Single Point Resistance
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Spontaneous Potential
6 in 8
3-Arm Caliper
0 CPS 200
Natural Gamma
Symbols
1in:5ft
Depth
Televiewer Features
20 Ohm.m 2000
Normal Resistivity - 64-inch
20 Ohm.m 2000
Normal Resistivity - 32-inch
20 Ohm.m 2000
Normal Resistivity - 16-inch
20 Ohm.m 2000
Normal Resistivity - 8-inch
0 uS/cm 400
Fluid Conductivity (25 'C)
14 'C 17
Fluid Temperature
Down
Up
Gal/Min
Ambient
Vertical Flow

Televiewer Logs

ARM GEOPHYSICS
Surface & Borehole Services

COMP	Greene Environmental
WELL	DW-01A
FLD	Vinton
CNTY	Bedford
STAT	VA
ARM	170607
API	N/A

COMPANY: Greene Environmental
STATE: VA
WELL ID: DW-01A
ARM NO.: 170607
FIELD/SITE: Vinton
API NO.: N/A
COUNTY: Bedford

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

OTHER SERVICES

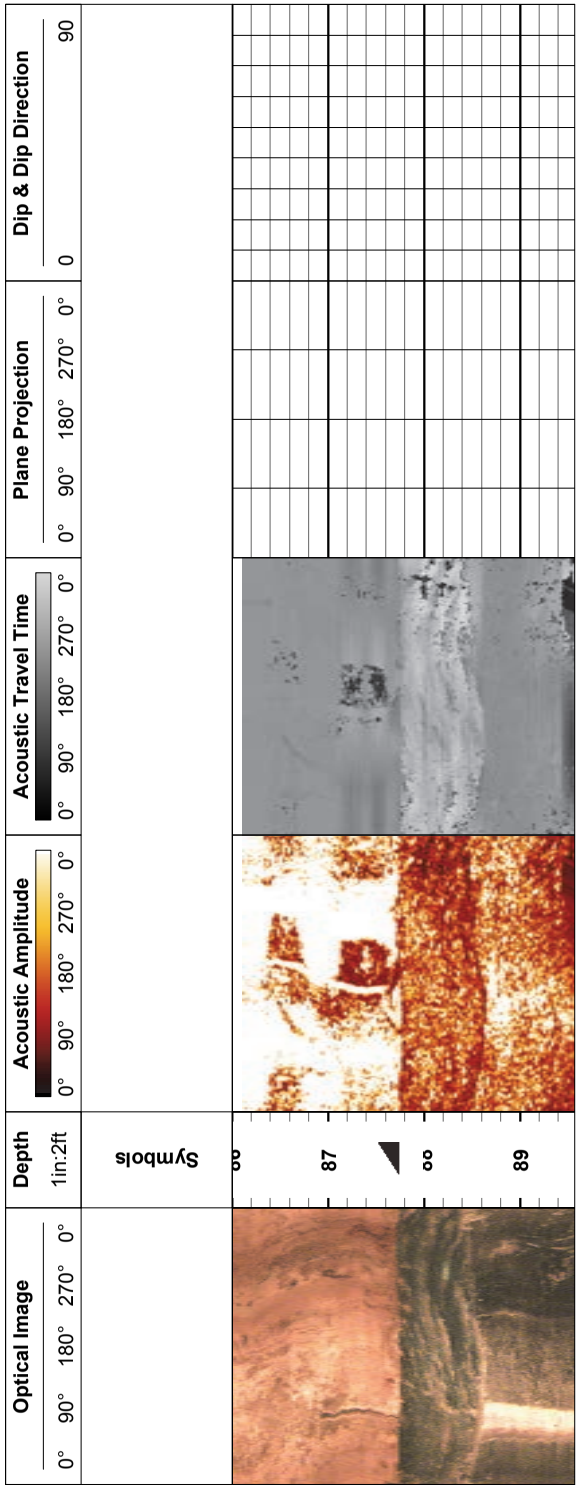
PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.6 G.L.

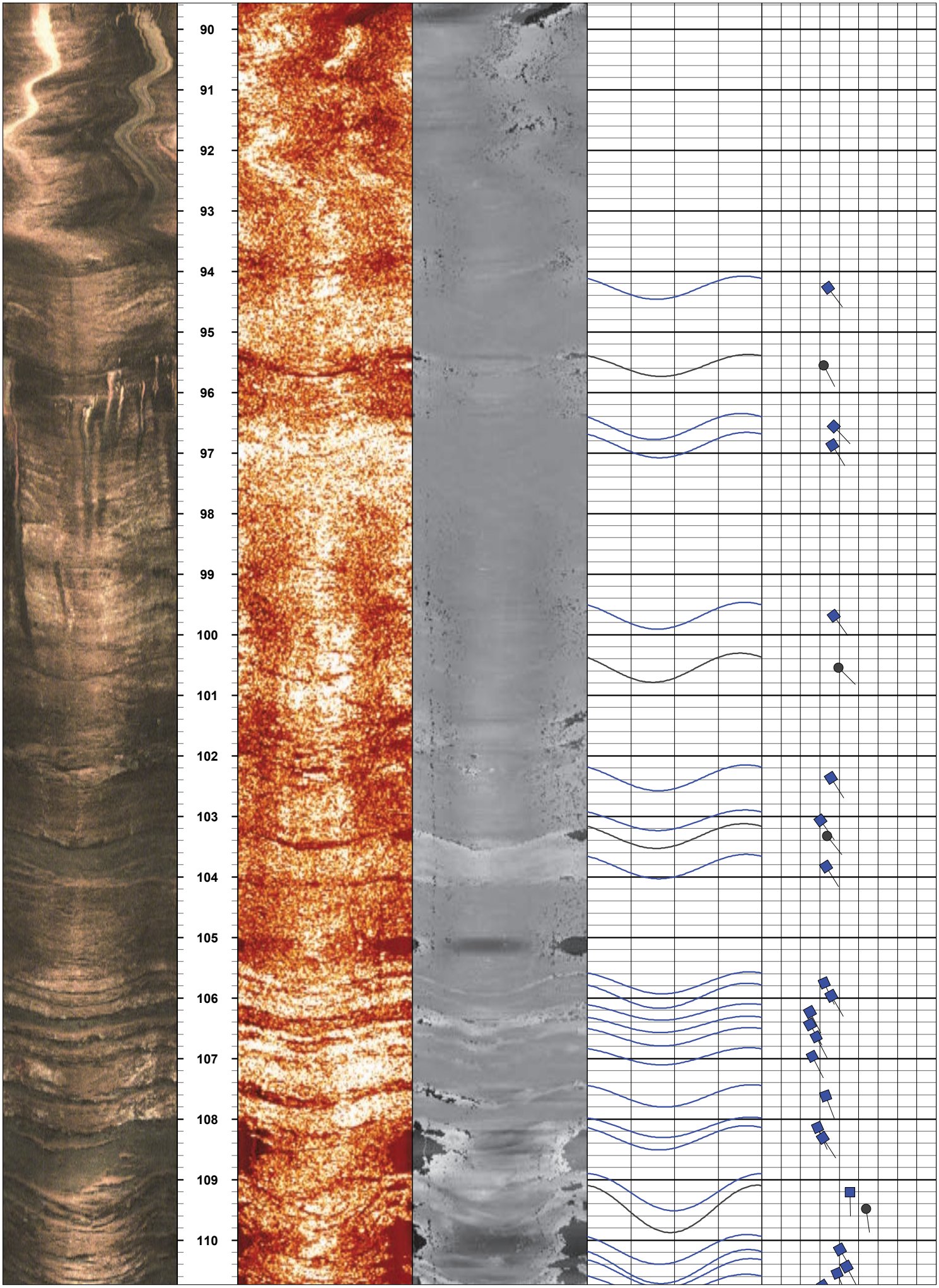
LOGGING DATE	11.28.2017	11.28.2017			
RUN NO	2	3			
TYPE LOG	OTV.GR	ATV.GR			
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	288.34	289.96			
BTM LOGGED INTERVAL (FT)	288.34	289.96			
TOP LOGGED INTERVAL (FT)	7.86	50			
CASING SIZE (IN)/DEPTH (FT)	6/	6/			
CASING ARM (FT)	87.75	87.75			
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	46.45				
MAG. DECLINATION (DEG)	8.77 W	8.77 W			
RECORDED BY	D. Rajkovic	D. Rajkovic			
WITNESSED BY					

REMARKS:

Symbols
Bottom of Casing

Structure
Open Fracture
Foliation
Part. Open Fract

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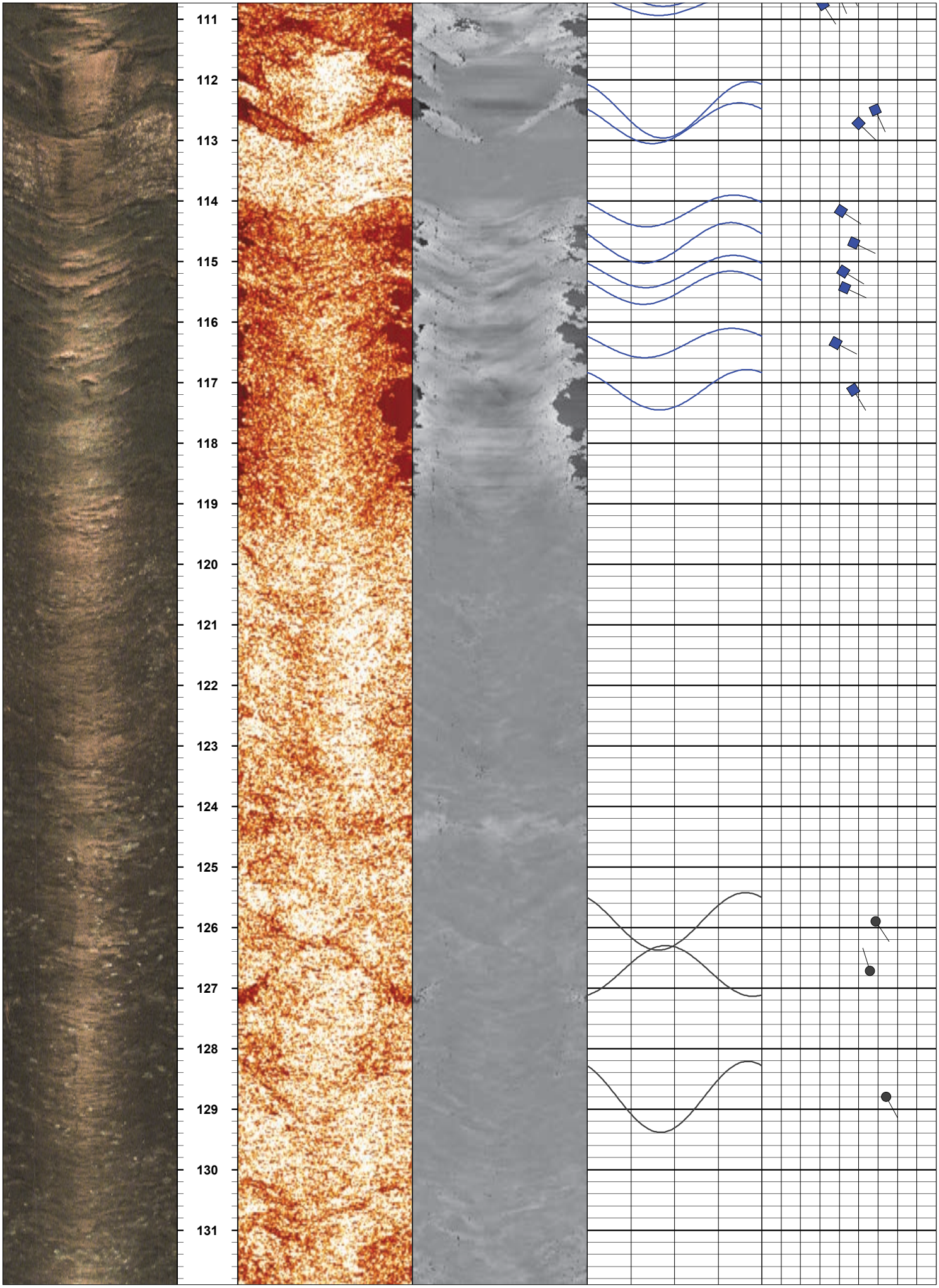
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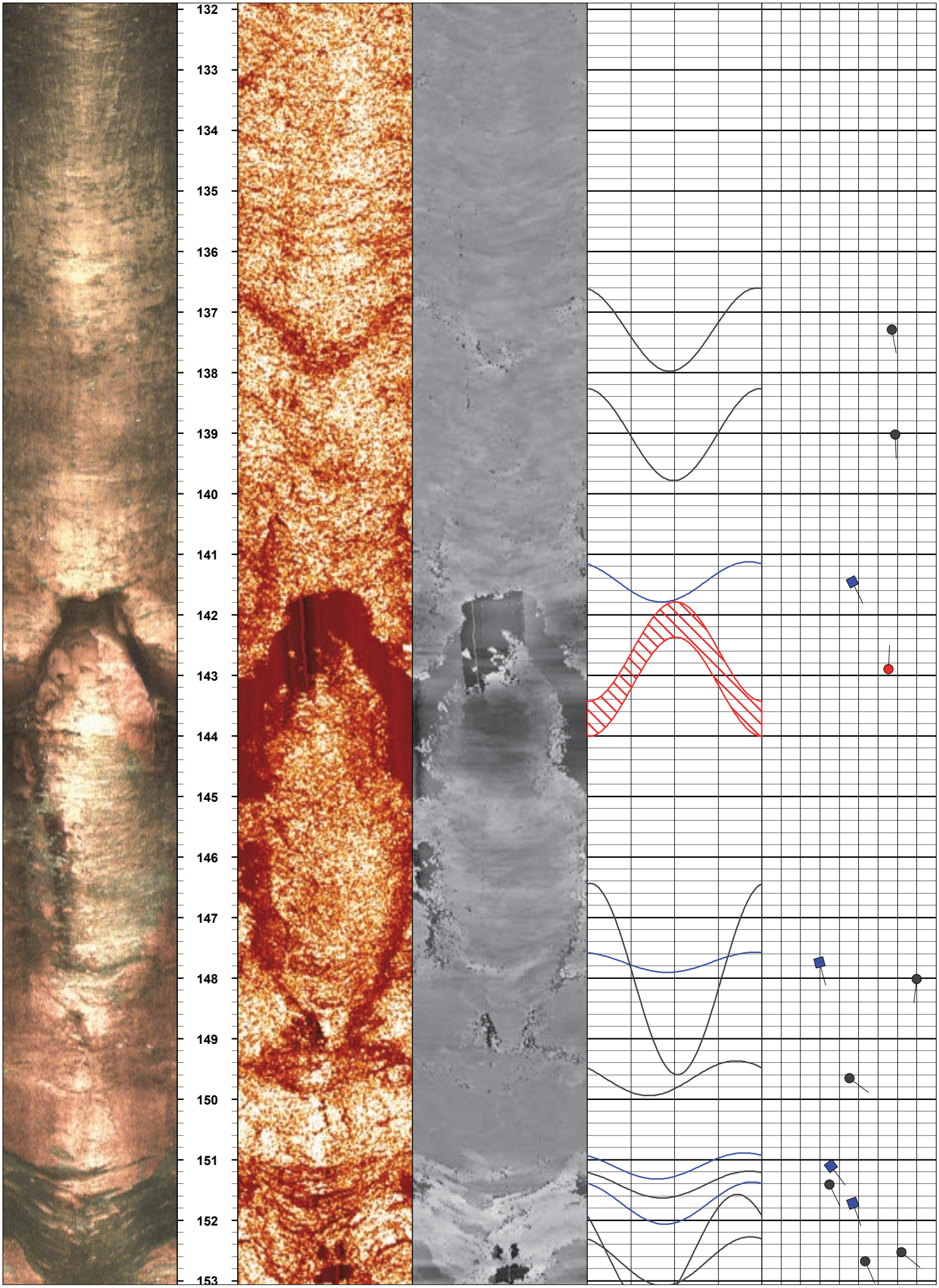
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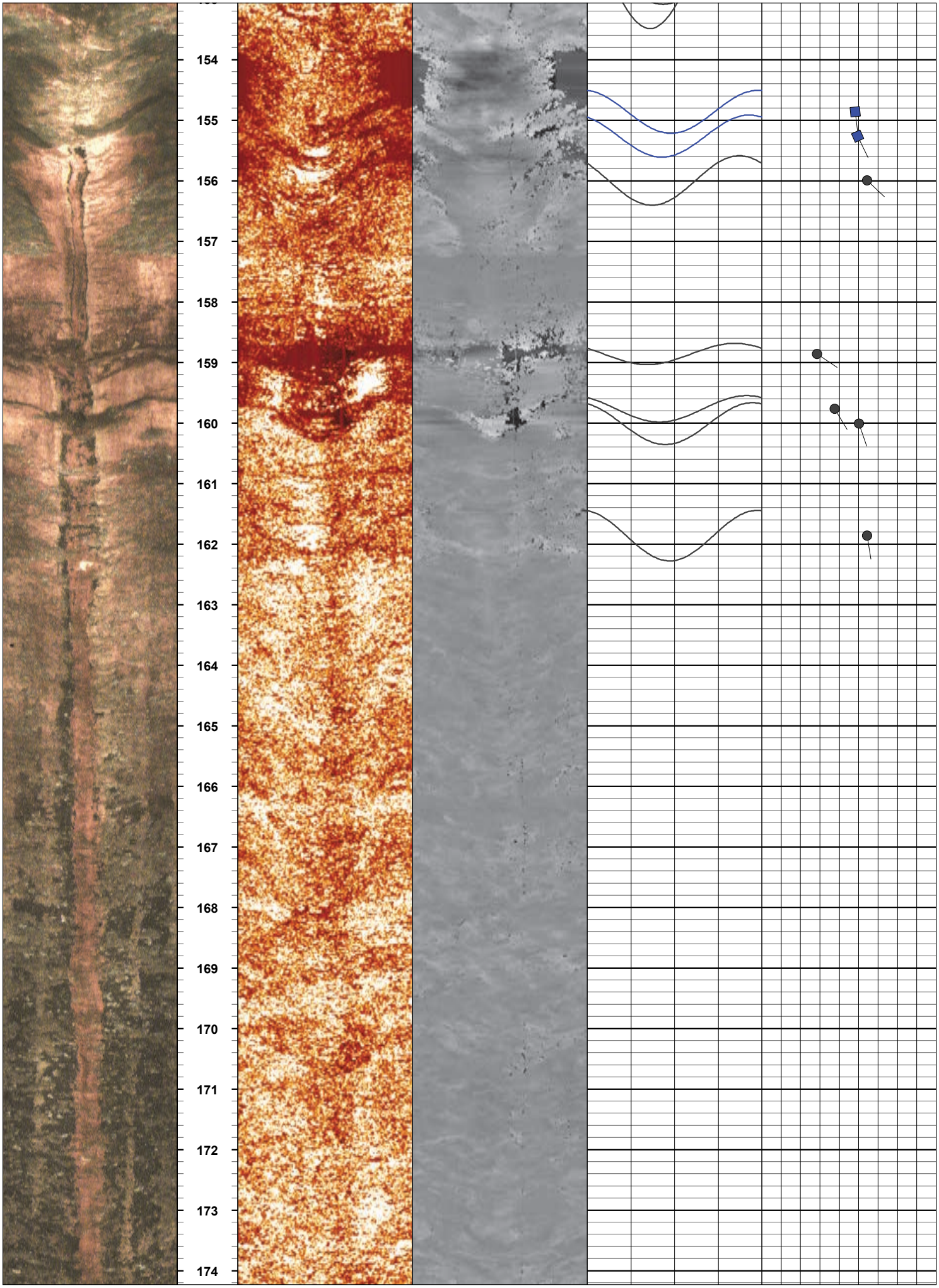
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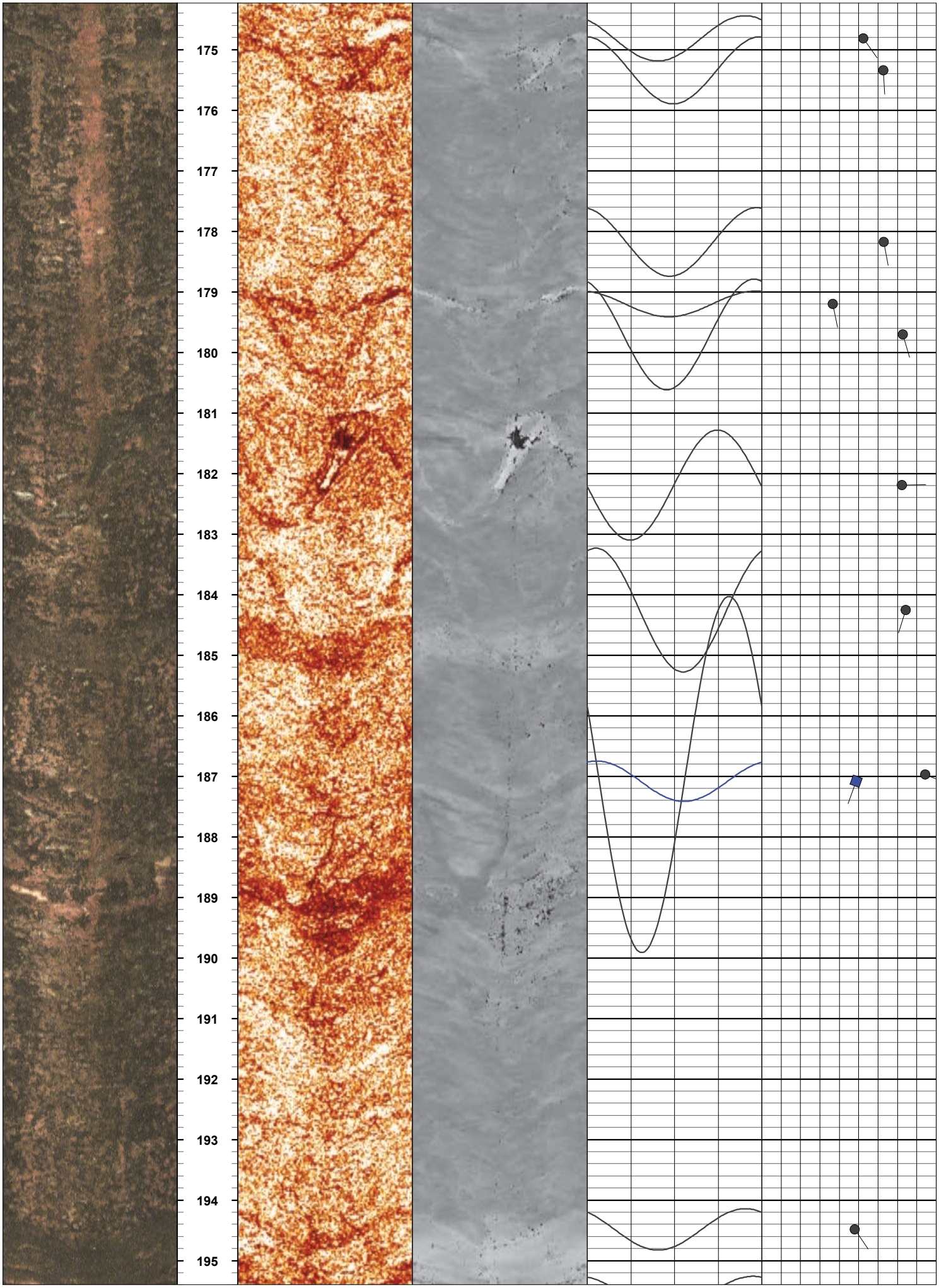
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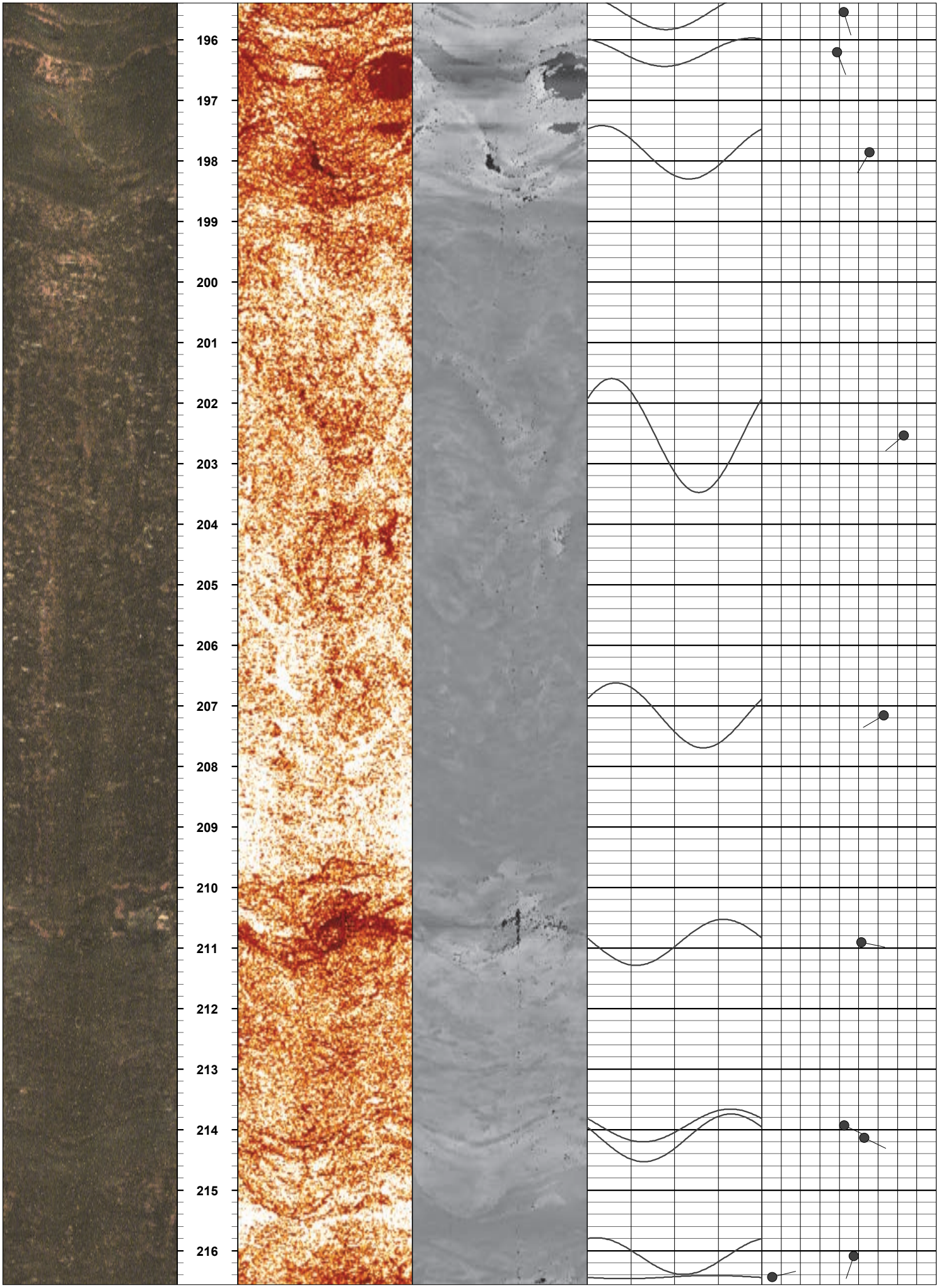
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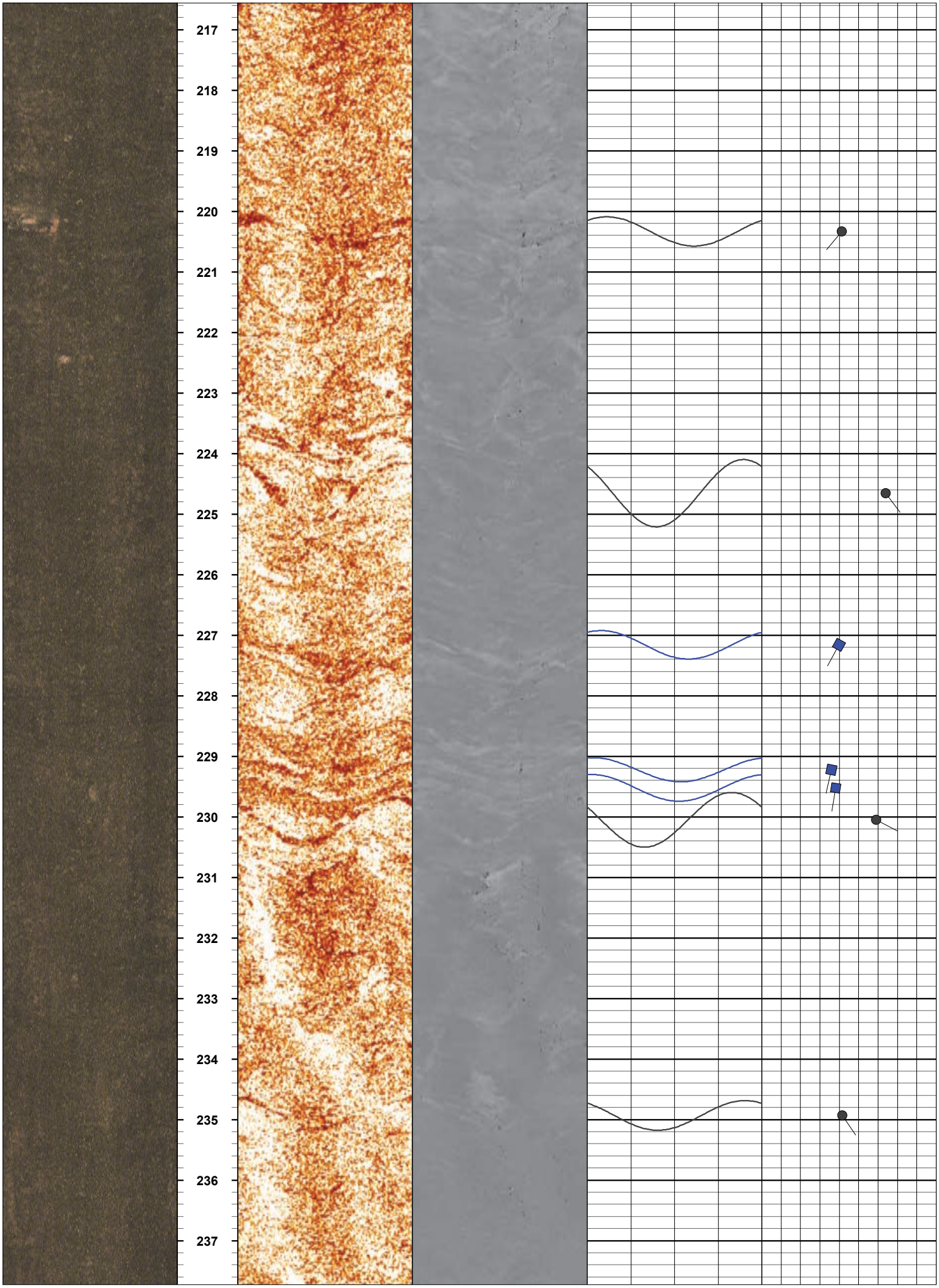
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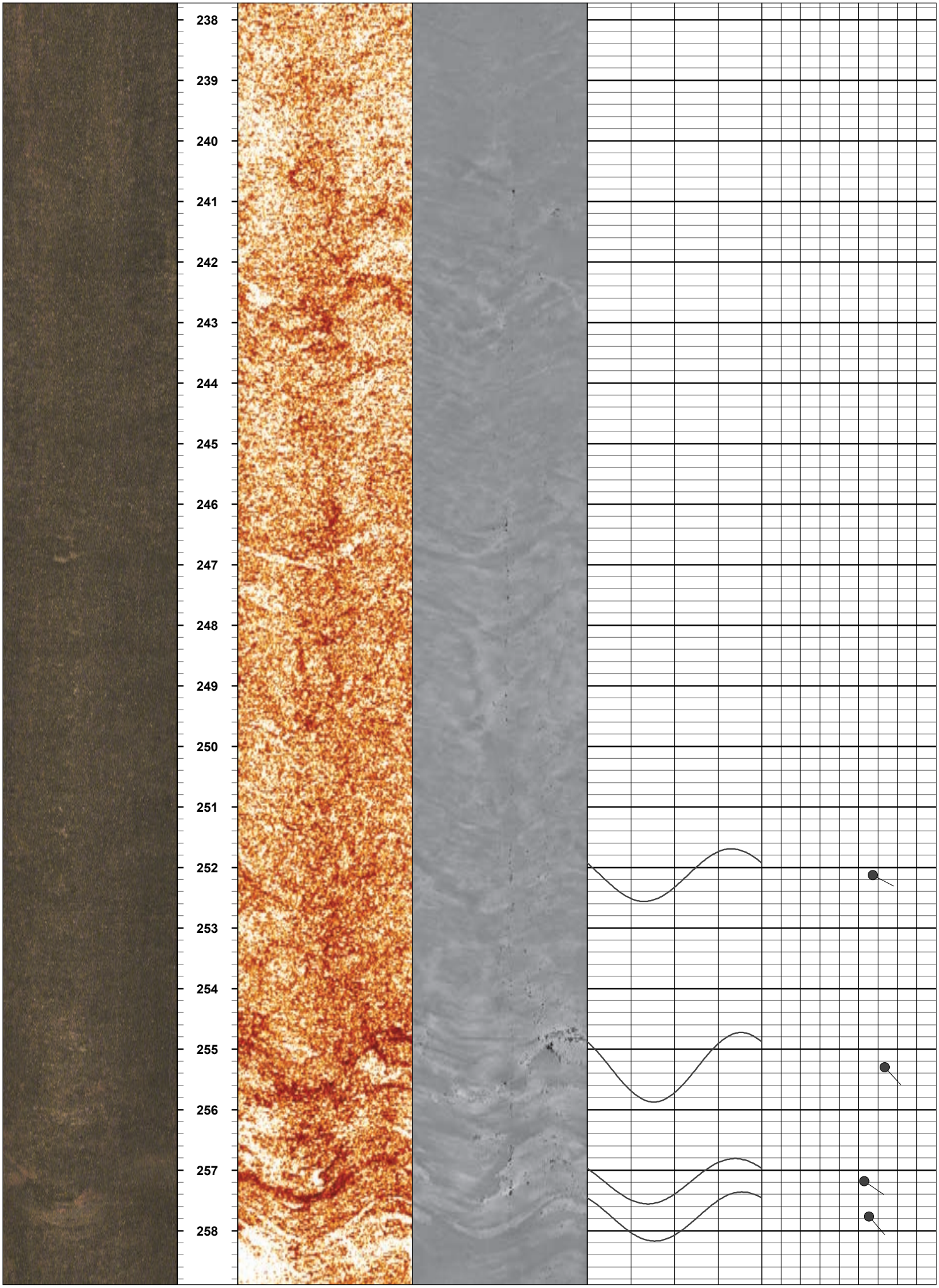
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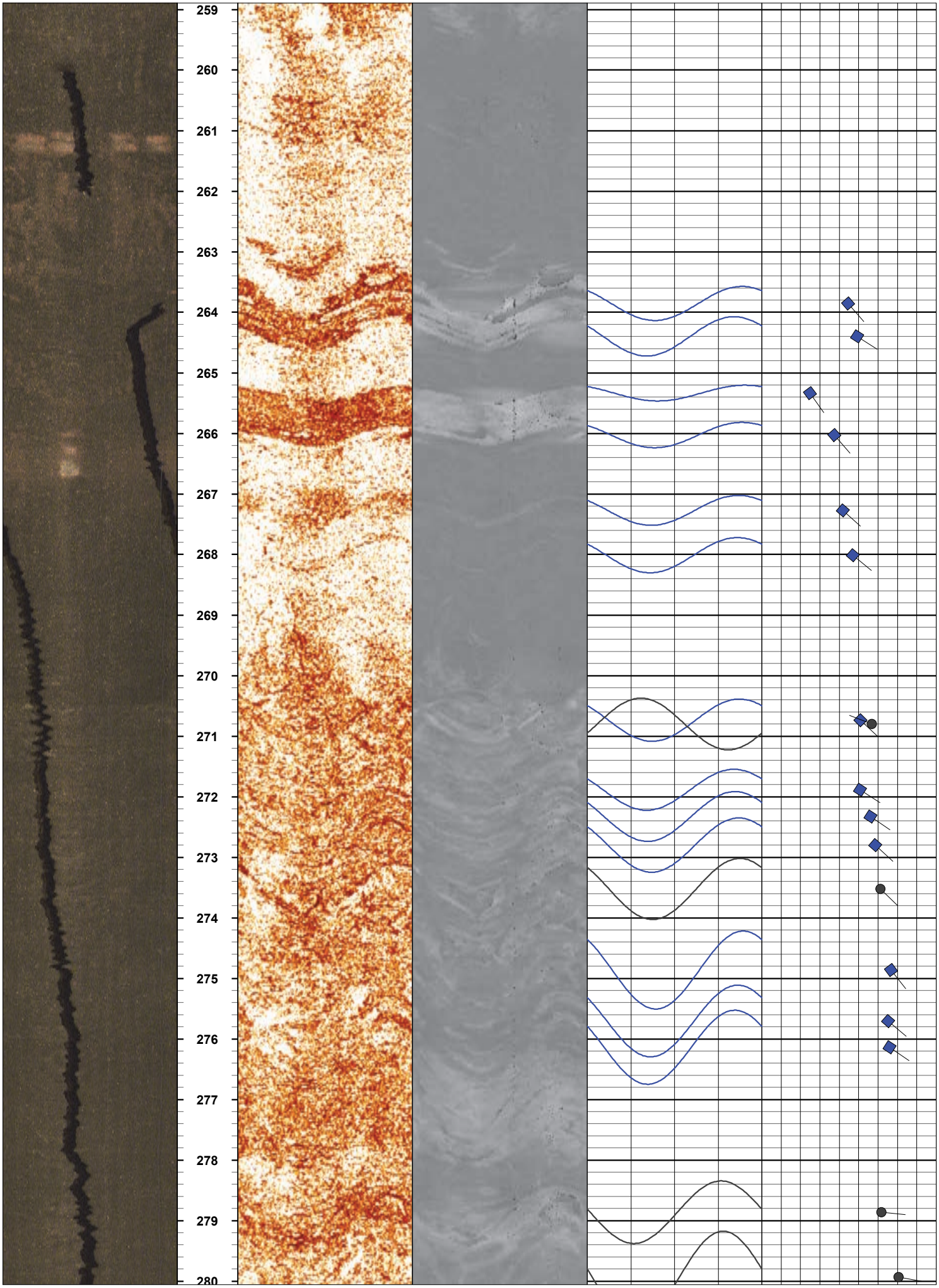
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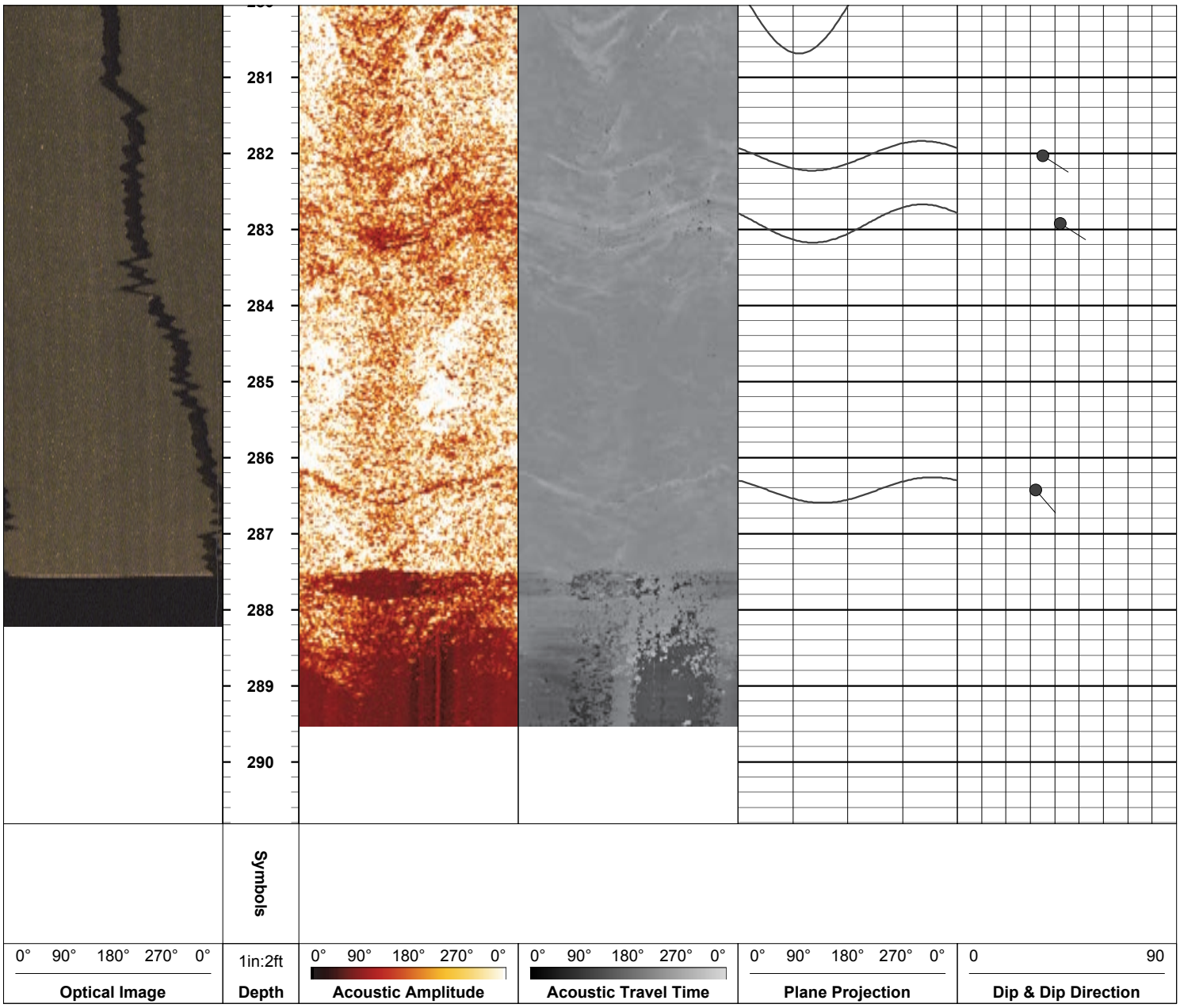
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Acoustic Amplitude
0° 90° 180° 270° 0°
Acoustic Travel Time
0° 90° 180° 270° 0°
Plane Projection
0 90
Dip & Dip Direction

DW-02A

Hydro Log

ARM GEOPHYSICS
Surface & Borehole Services

COMP	Greene Environmental
WELL	DW-02A
FLD	Vinton
CNTY	Roanoke
STAT	VA
ARM	170607
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-02A ARM NO.: 170607
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Roanoke

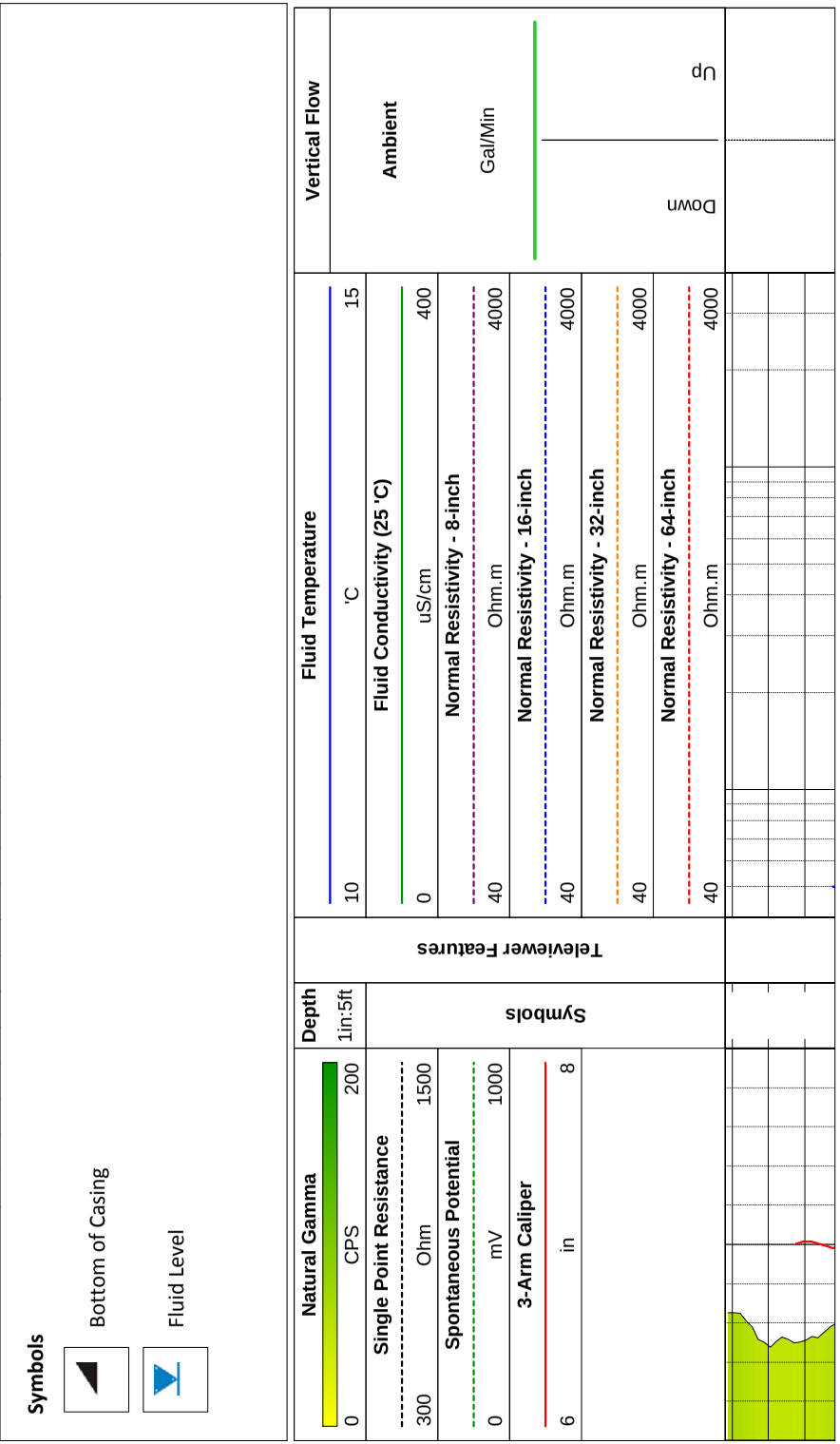
LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

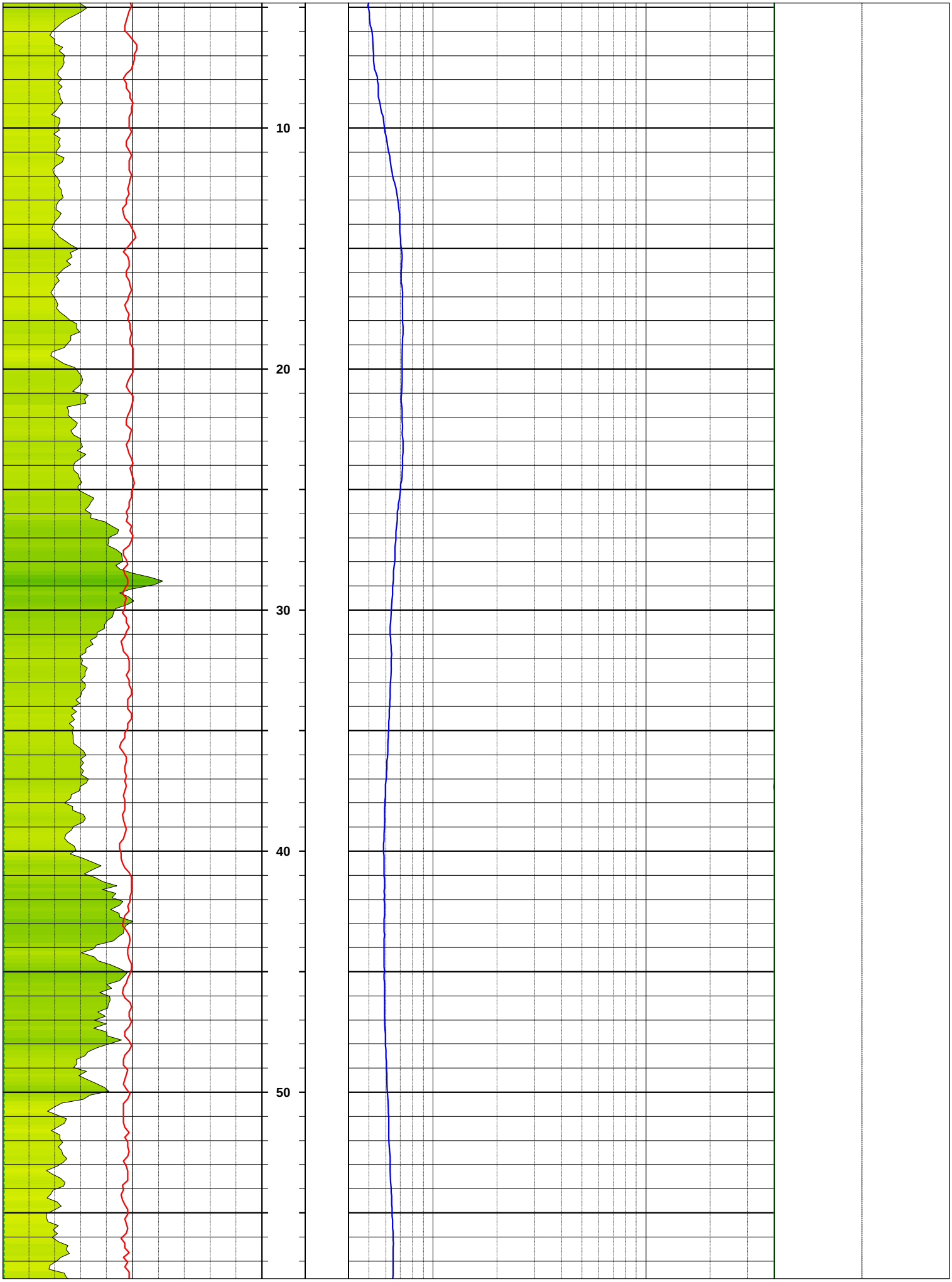
OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.4 G.L.

LOGGING DATE	10.31.2017	10.31.2017	10.31.2017	10.31.2017	
RUN NO	1	4	5	6	
TYPE LOG	FTC.GR	CAL	RES	HPFM A	
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	261.46	260.11	260.54	N/A	
BTM LOGGED INTERVAL (FT)	261.46	260.11	260.54	258.99	
TOP LOGGED INTERVAL (FT)	4.73	5.04	31.32	91	
CASING SIZE (IN)/DEPTH (FT)	6/	6/	6/	6/	
CASING ARM (FT)	88.46	88.46	88.46	88.46	
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	69.86				
MAG. DECLINATION (DEG)	8.77 W	8.77 W	8.77 W	8.77 W	
RECORDED BY	D. Apple	D. Apple	D. Apple	D. Apple	
WITNESSED BY	D. Rajkovic	D. Rajkovic	D. Rajkovic	D. Rajkovic	

REMARKS:

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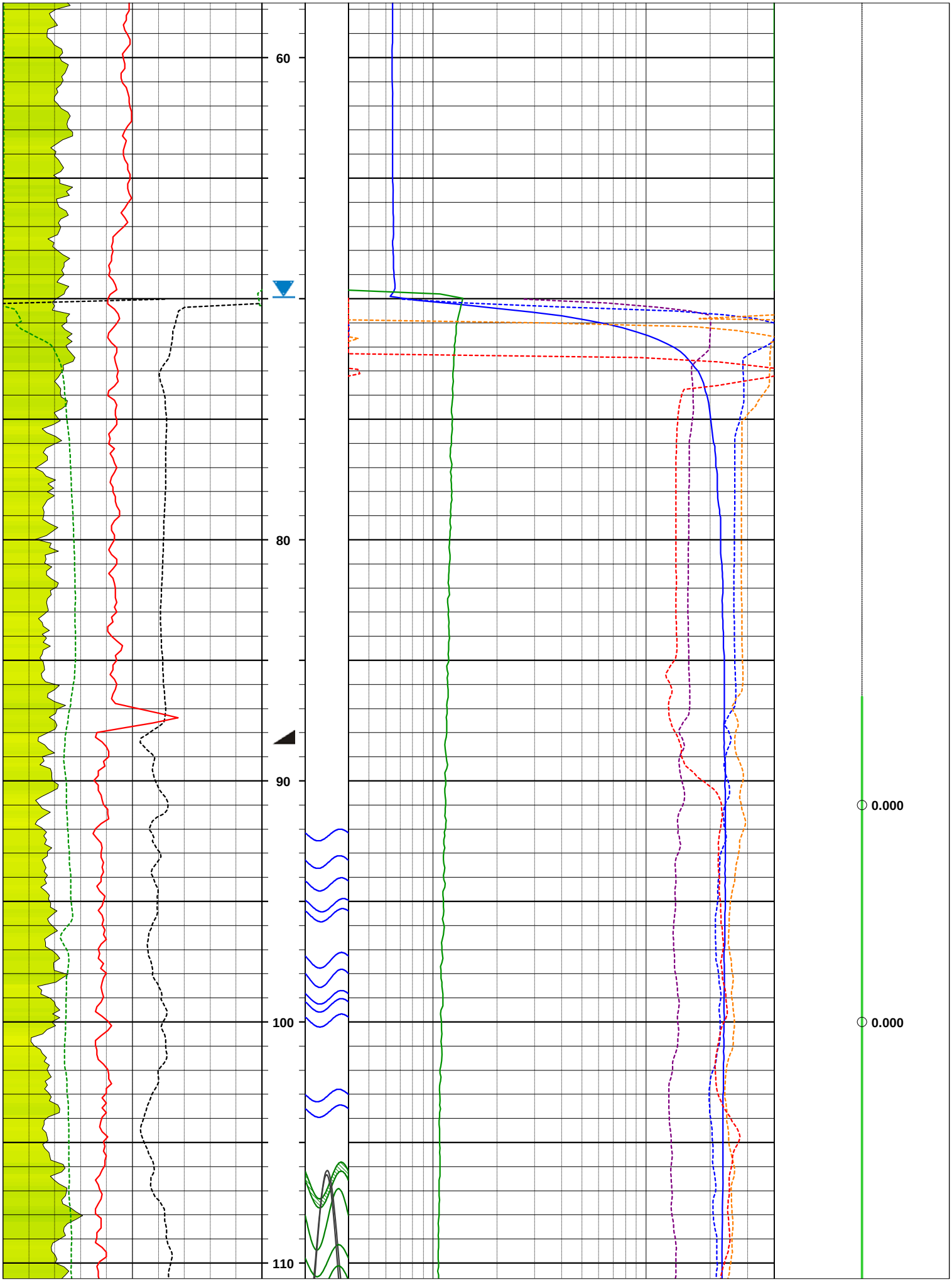
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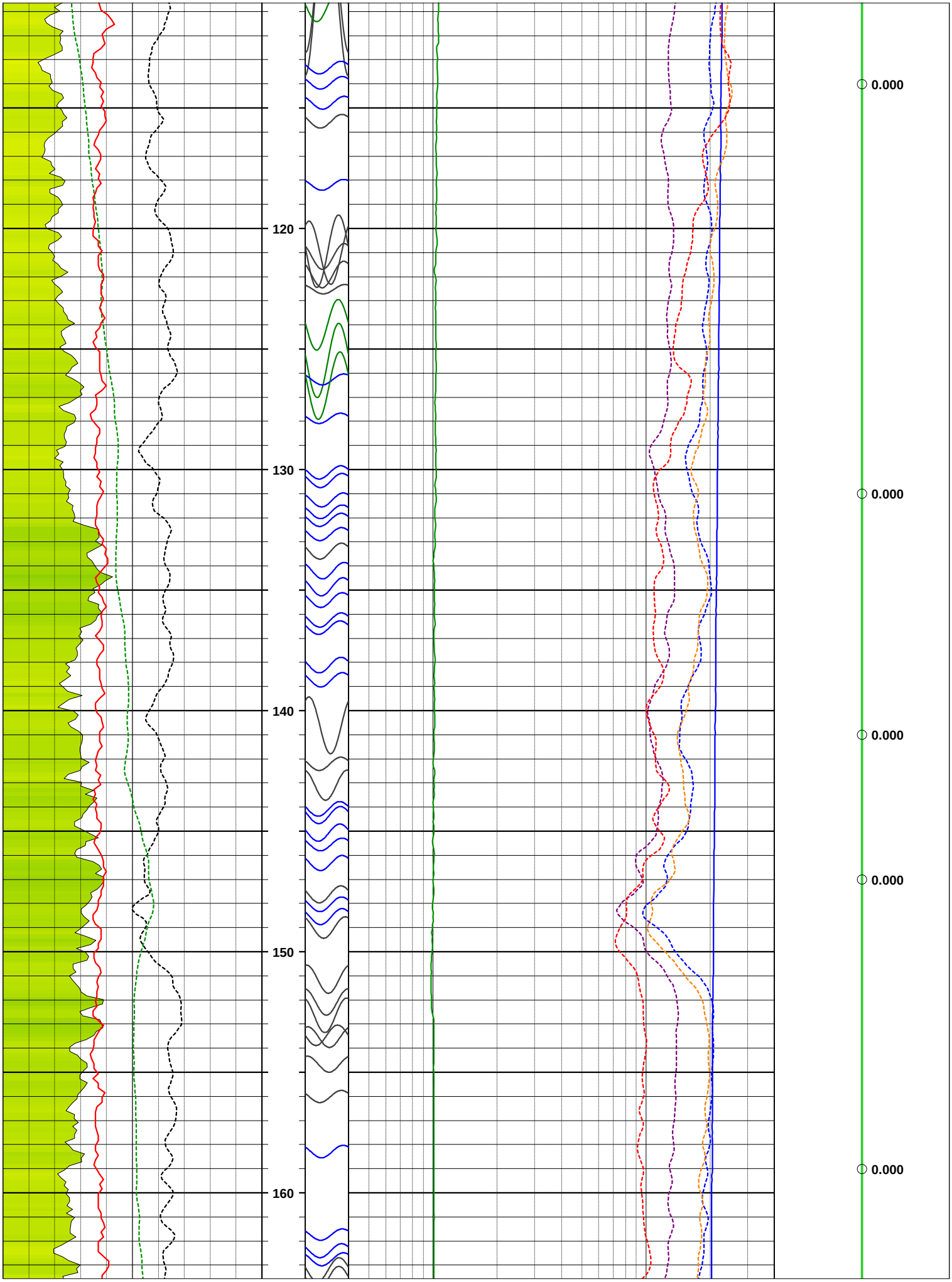
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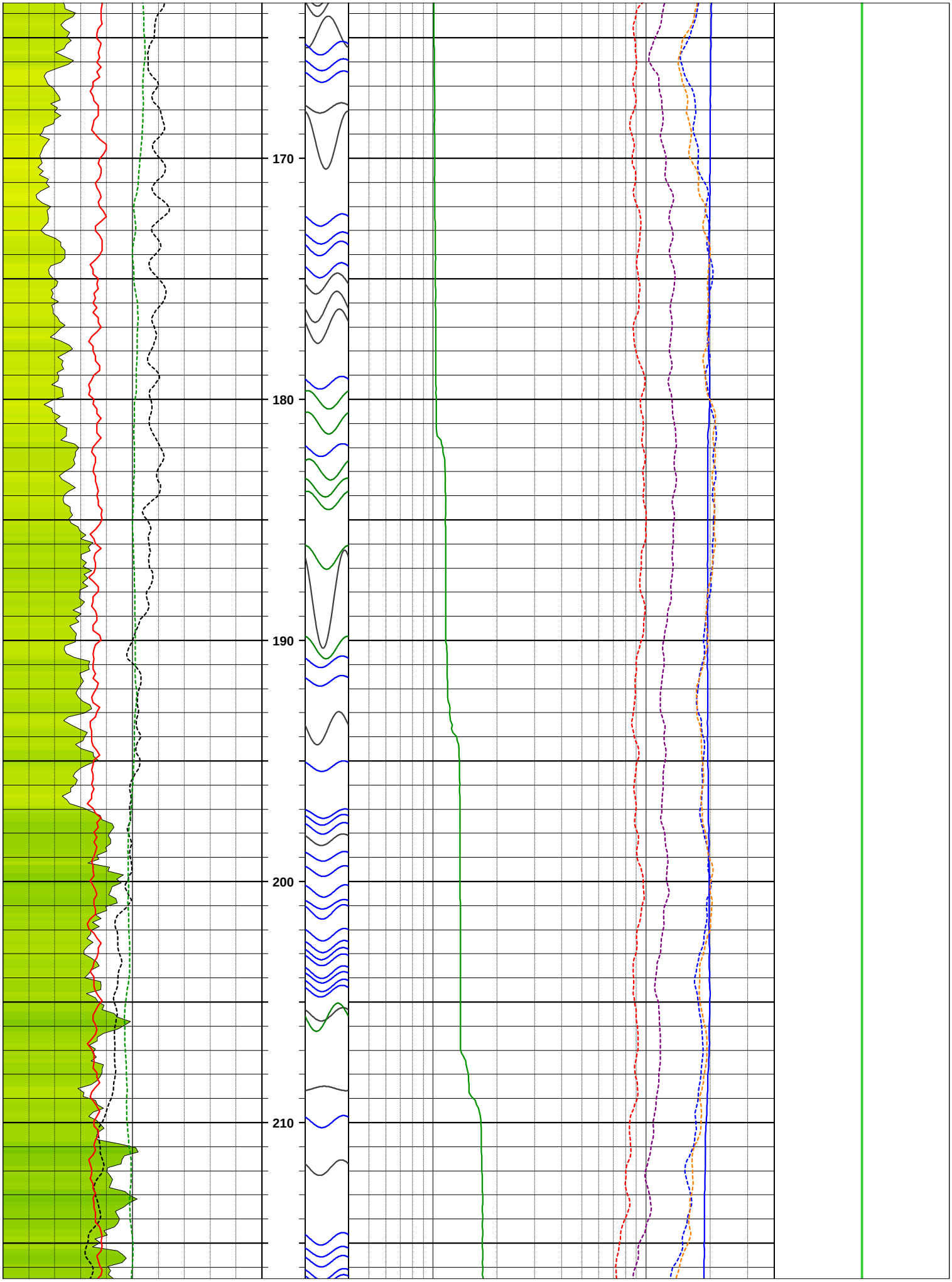
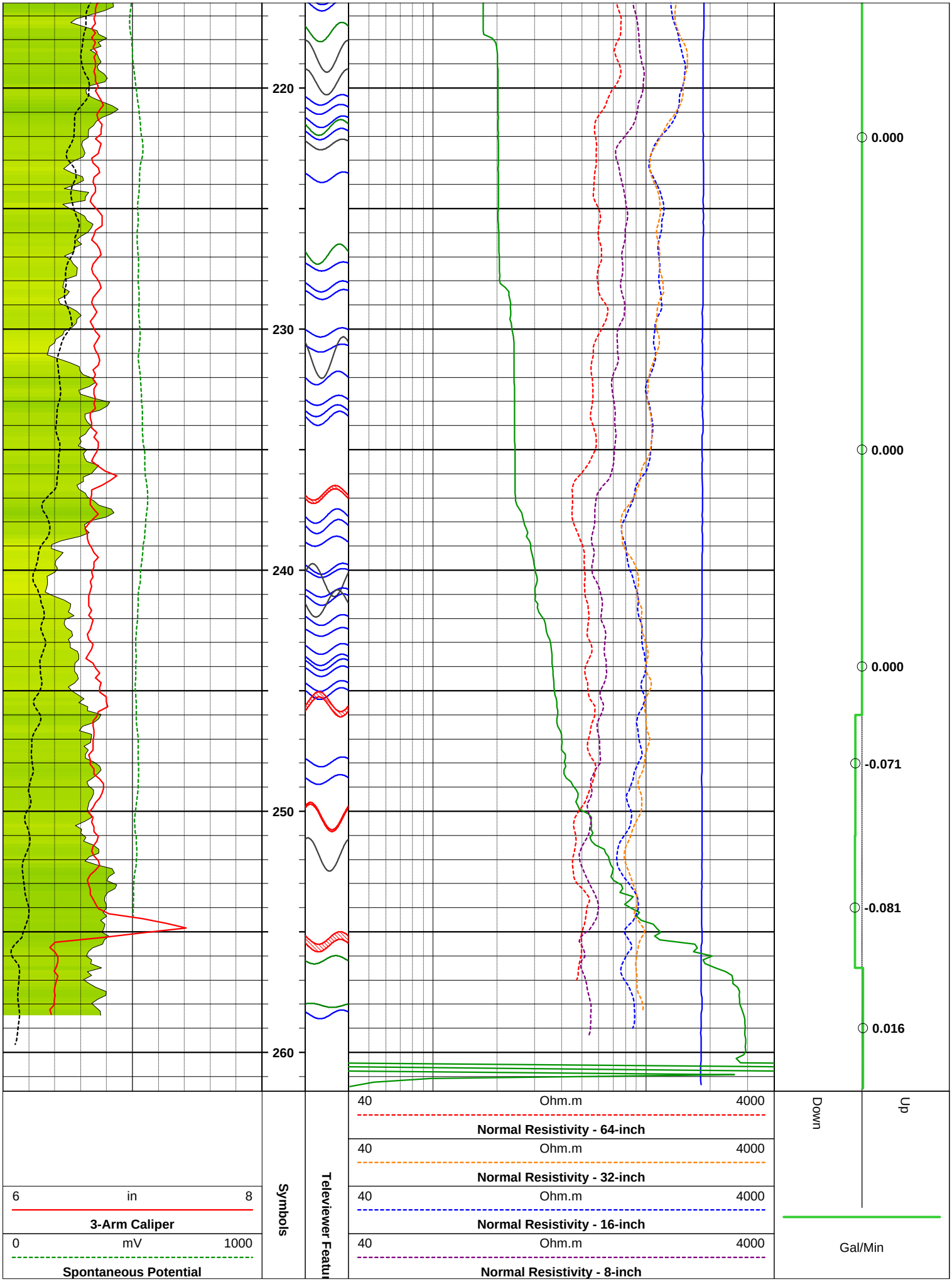
0.000


170
180
190
200
210


220
230
240
250
260
0.000
0.000
0.000
-0.071
-0.081
0.016
6 in 8
3-Arm Caliper
0 mV 1000
Spontaneous Potential
Symbols
Televiewer Featur
40 Ohm.m 4000
Normal Resistivity - 64-inch
40 Ohm.m 4000
Normal Resistivity - 32-inch
40 Ohm.m 4000
Normal Resistivity - 16-inch
40 Ohm.m 4000
Normal Resistivity - 8-inch
Down
Up
Gal/Min

300 Ohm 1500 Single Point Resistance			0 uS/cm 400 Fluid Conductivity (25 'C)	Ambient	
0 CPS 200 Natural Gamma	1in:5ft Depth		10 'C 15 Fluid Temperature		Vertical Flow

Televiewer Logs

ARM GEOPHYSICS
Surface & Borehole Services

COMP Greene Environmental
WELL DW-02A
FLD Vinton
CNTY Roanoke
STAT VA
ARM 170607
API N/A

COMPANY: Greene Environmental
WELL ID: DW-02A
FIELD/SITE: Vinton
COUNTY: Roanoke
STATE: VA
ARM NO.: 170607
API NO.: N/A

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.4 G.L.

LOGGING DATE	10.31.2017	10.31.2017			
RUN NO	2	3			
TYPE LOG	OTV.GR	ATV.GR			
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	260.67	261.1			
BTM LOGGED INTERVAL (FT)	260.67	261.1			
TOP LOGGED INTERVAL (FT)	5.26	65			
CASING SIZE (IN)/DEPTH (FT)	6/	6/			
CASING ARM (FT)	88.46	88.46			
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	69.87	69.87			
MAG. DECLINATION (DEG)	8.77 W	8.77 W			
RECORDED BY	D. Apple	D. Apple			
WITNESSED BY	D. Rajkovic	D. Rajkovic			

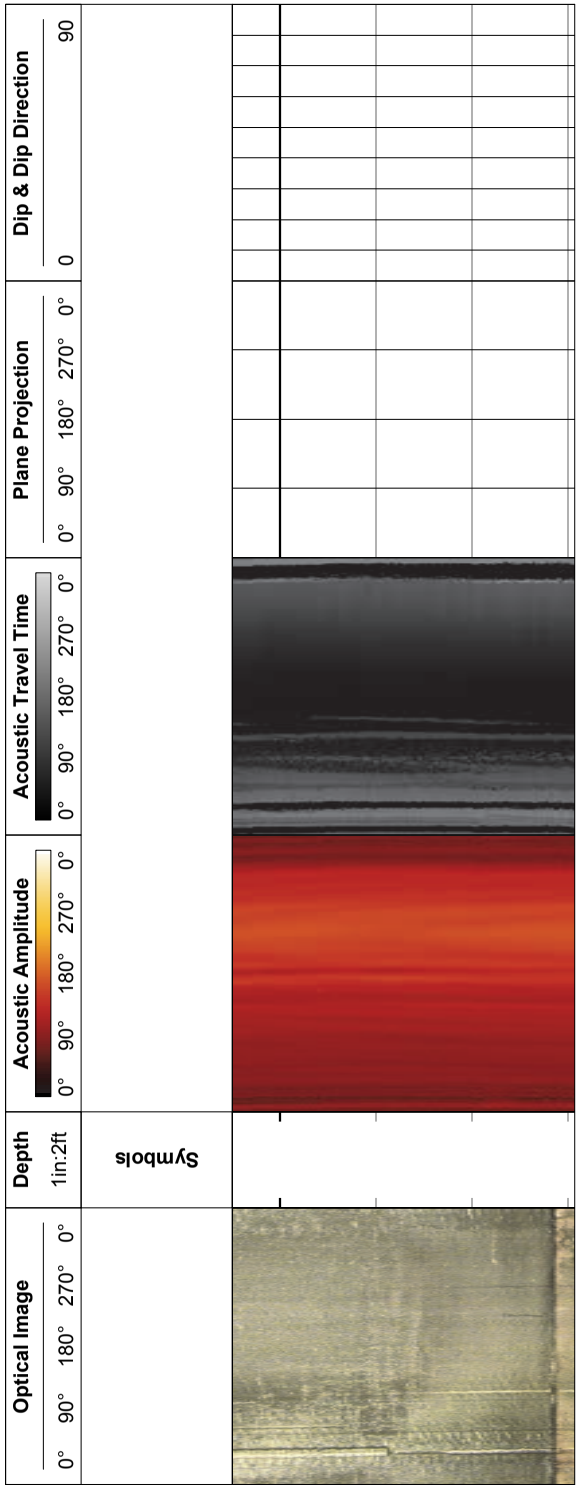
REMARKS:

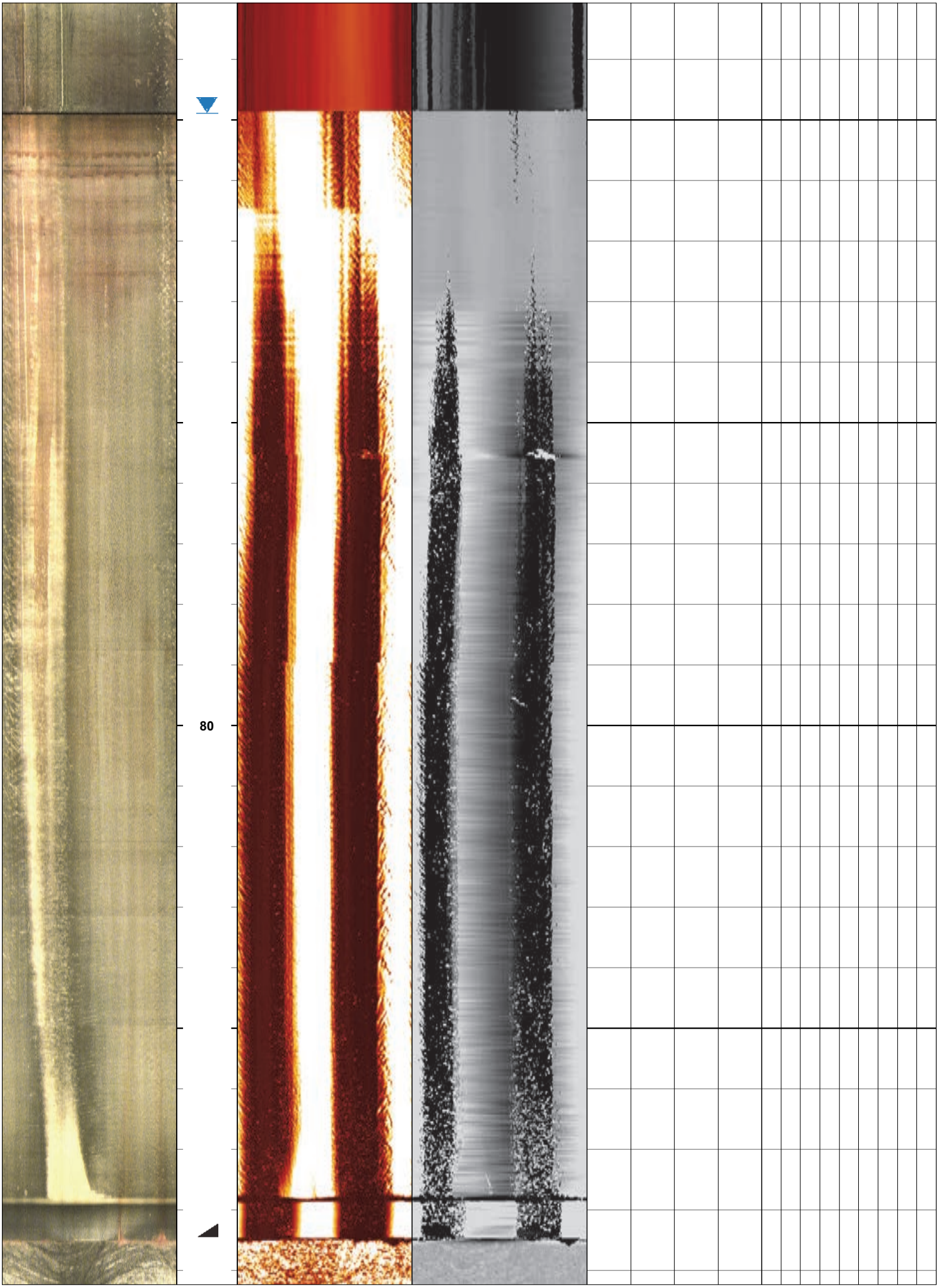
Structure

Open Fracture
Foliation
Part. Open Fract
Filled Fracture

Symbols

Bottom of Casing
Fluid Level

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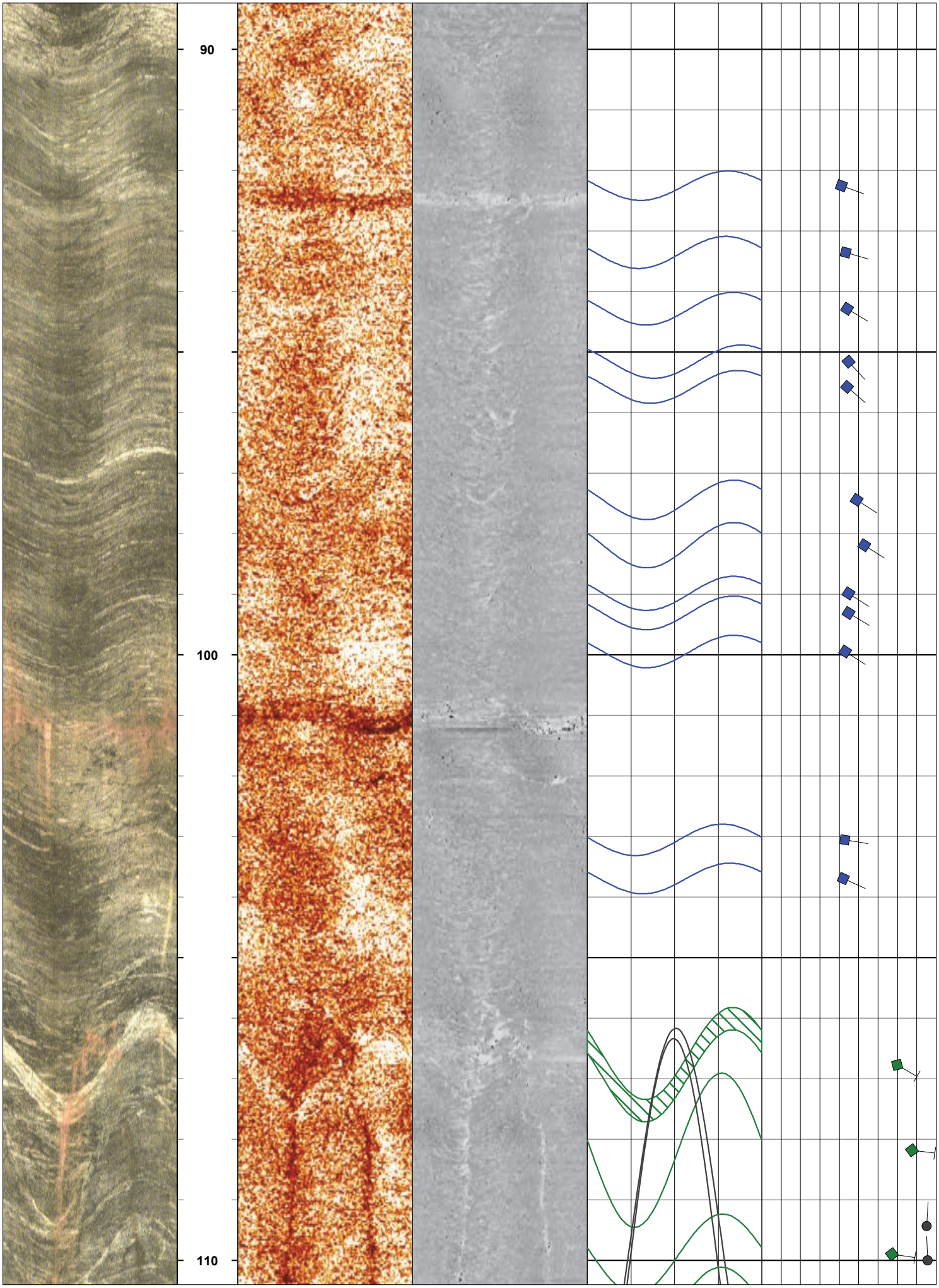
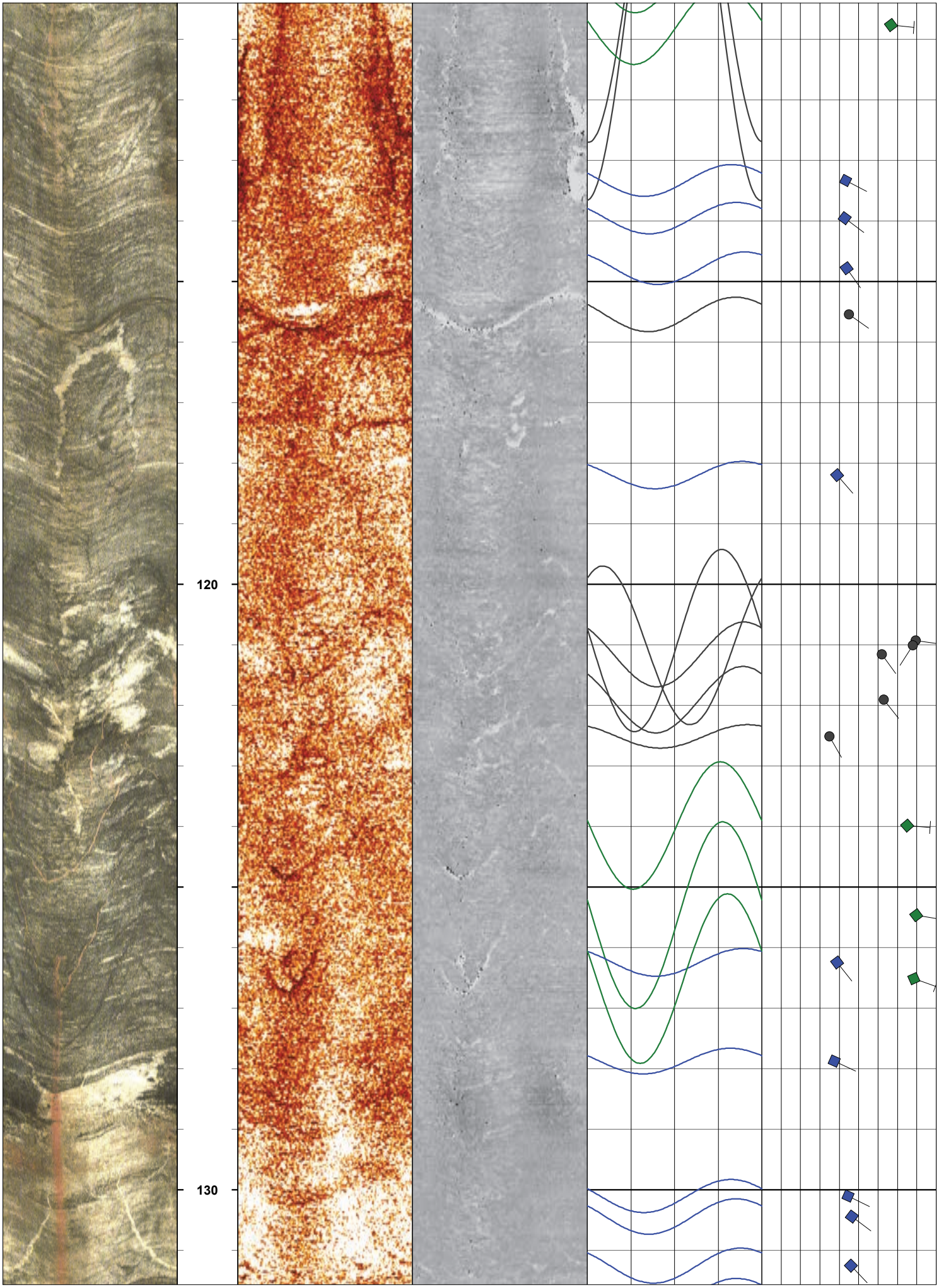
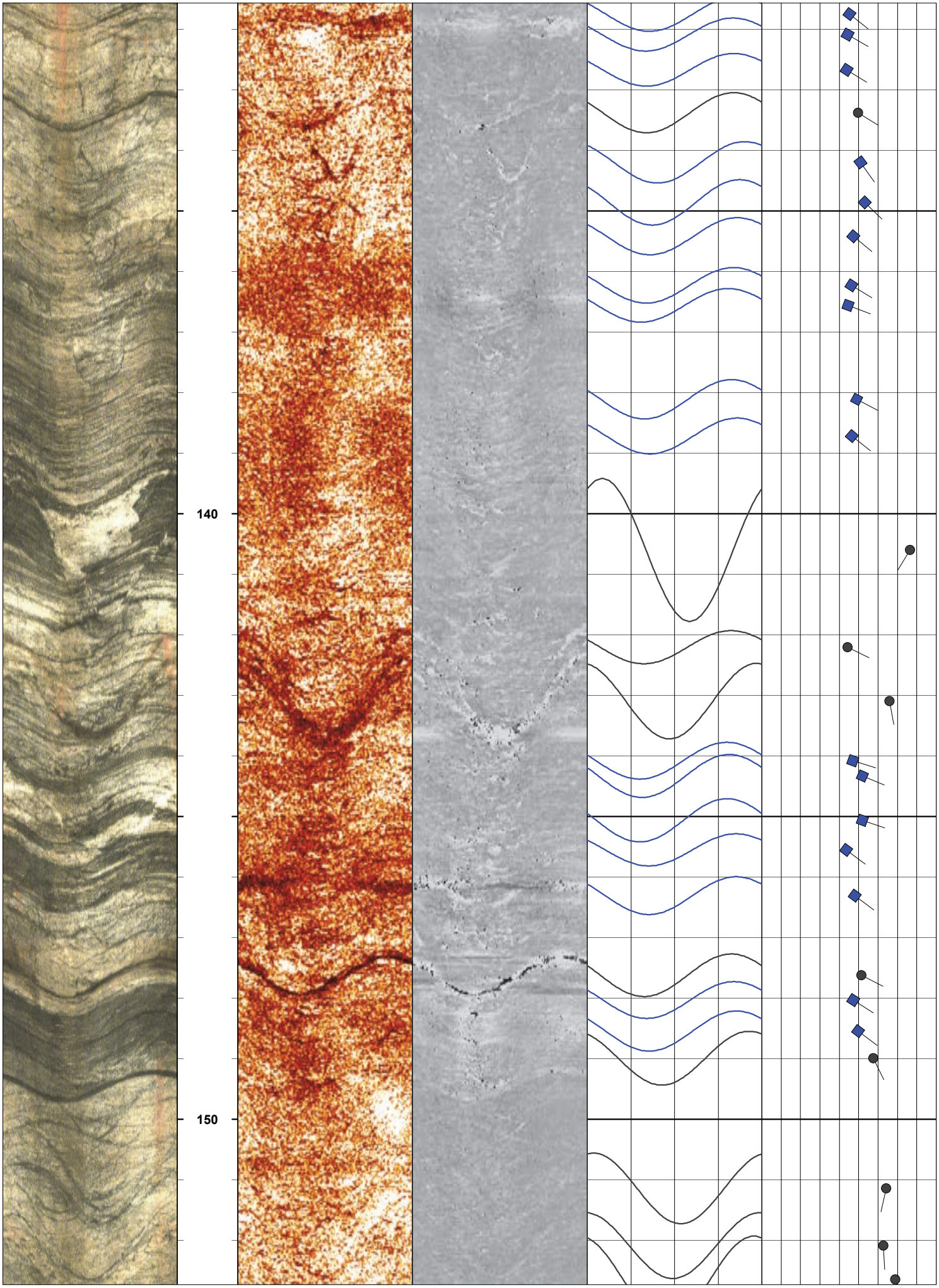
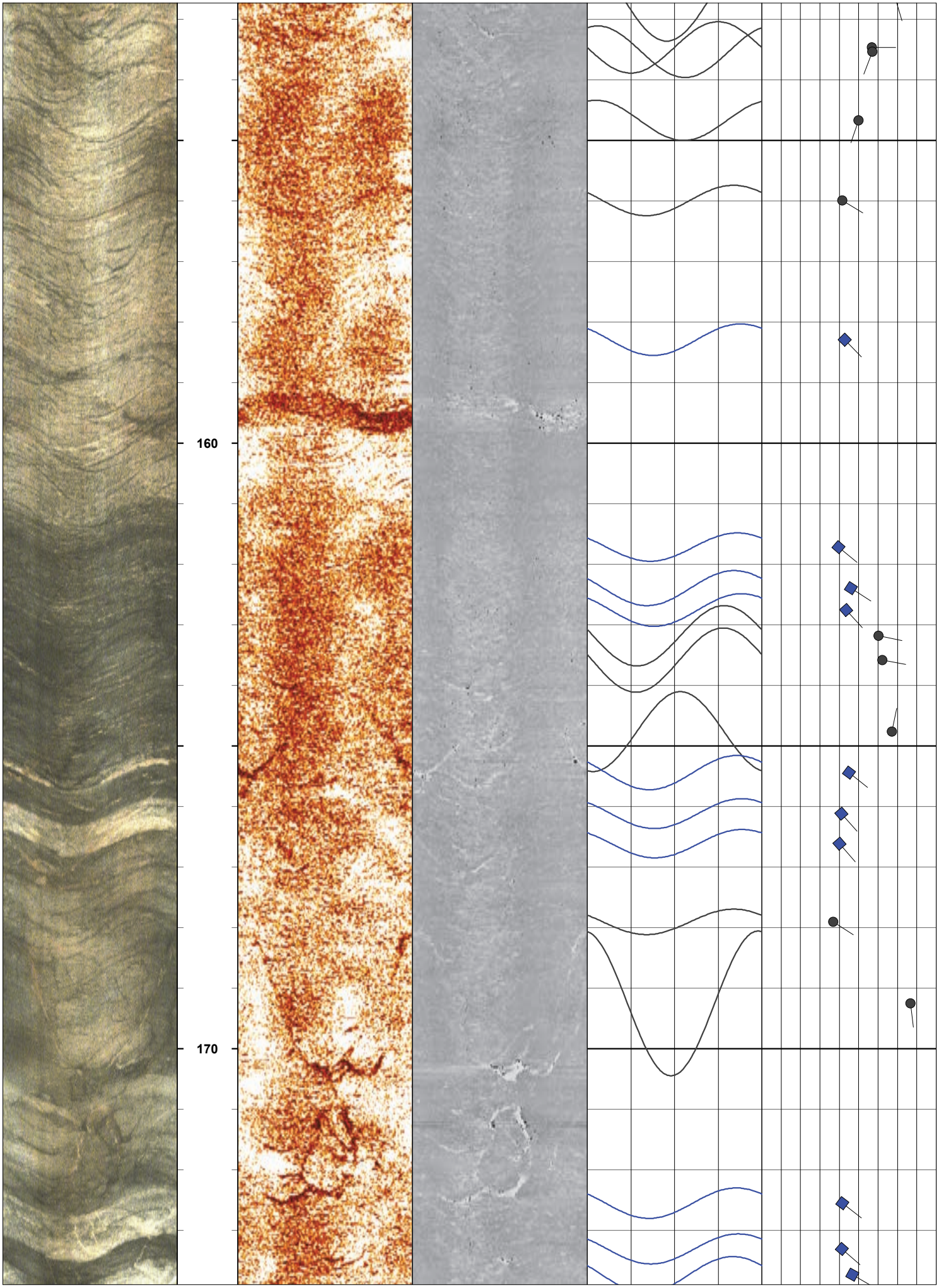
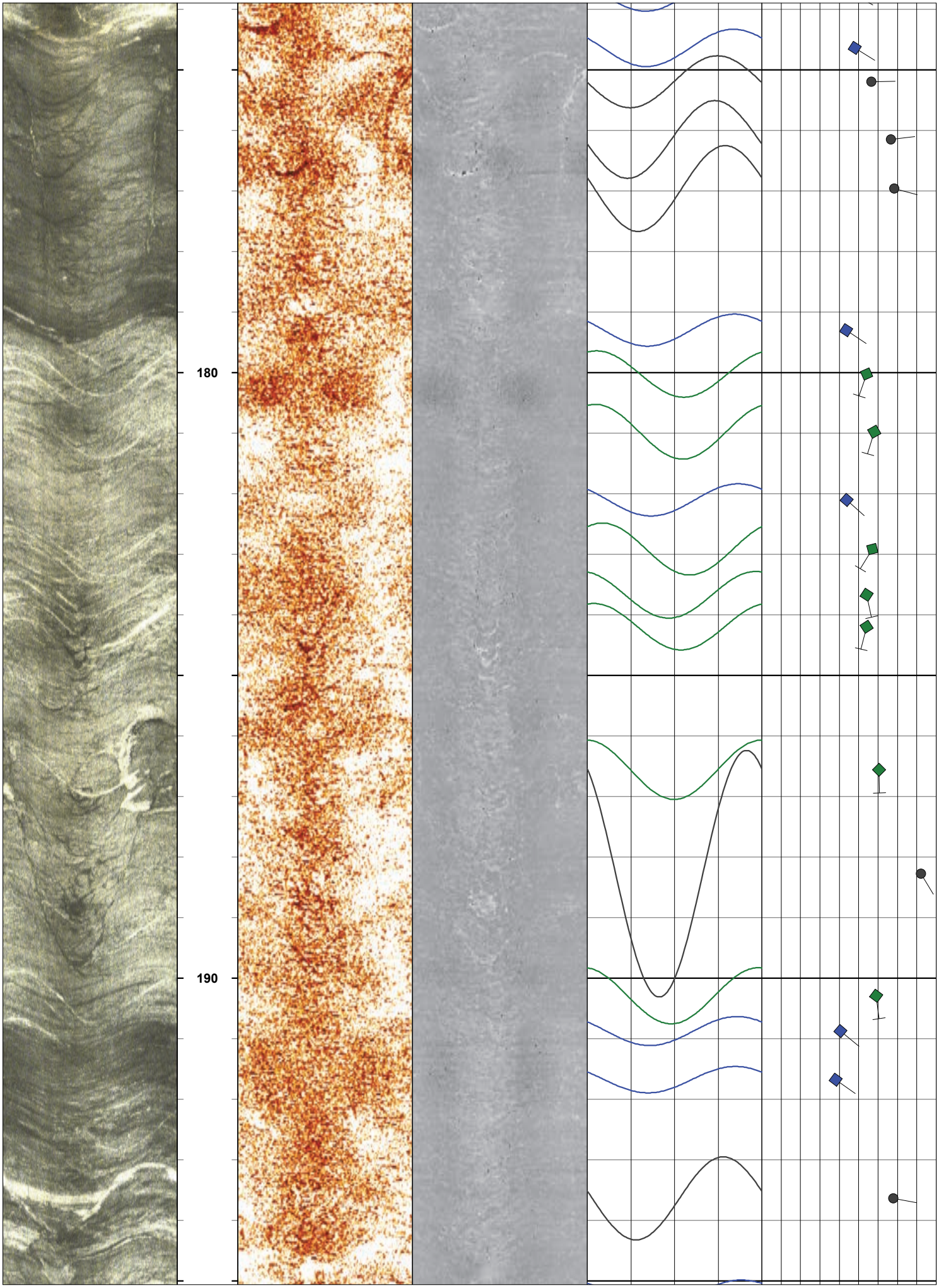
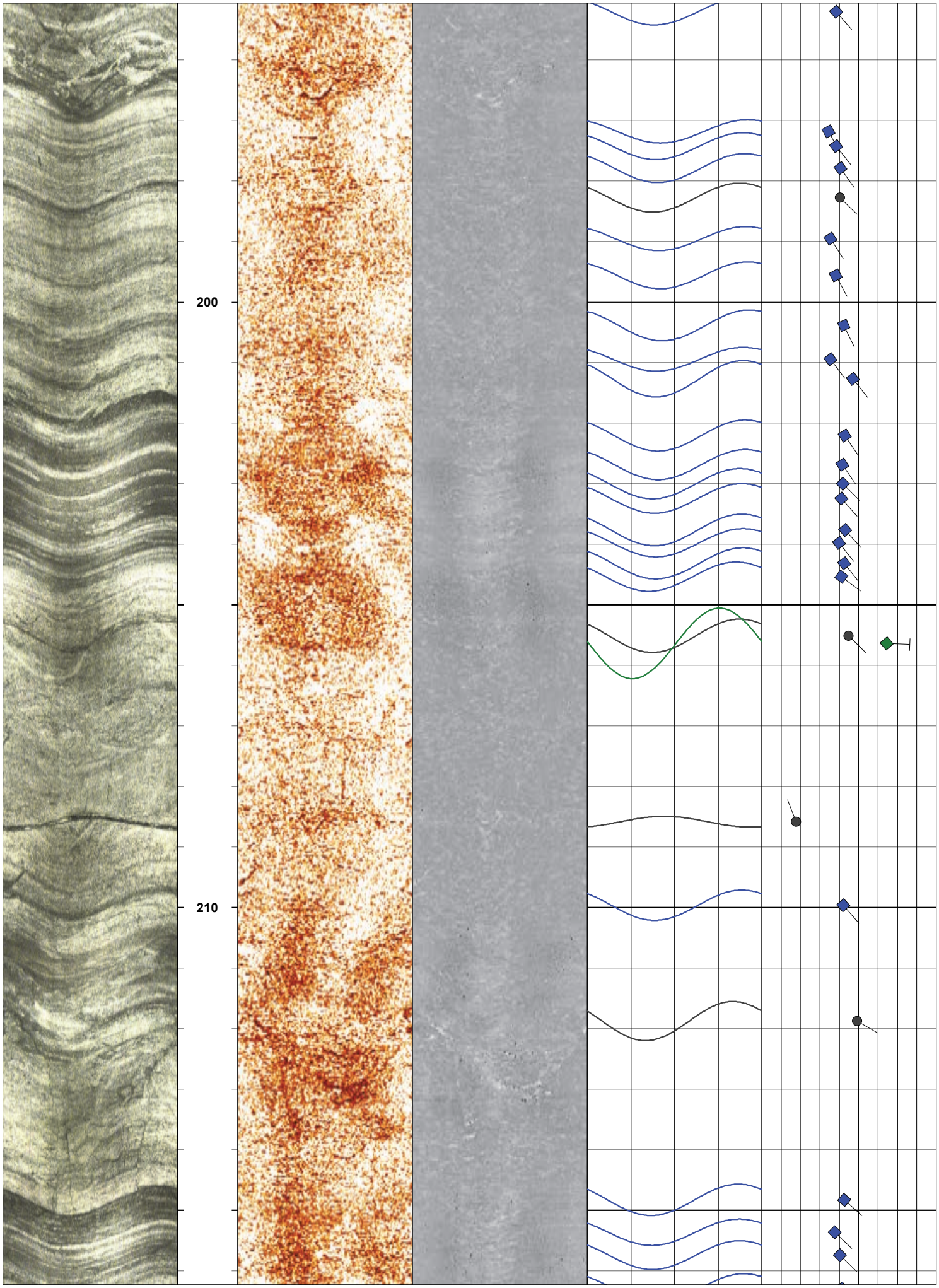

90
100
110

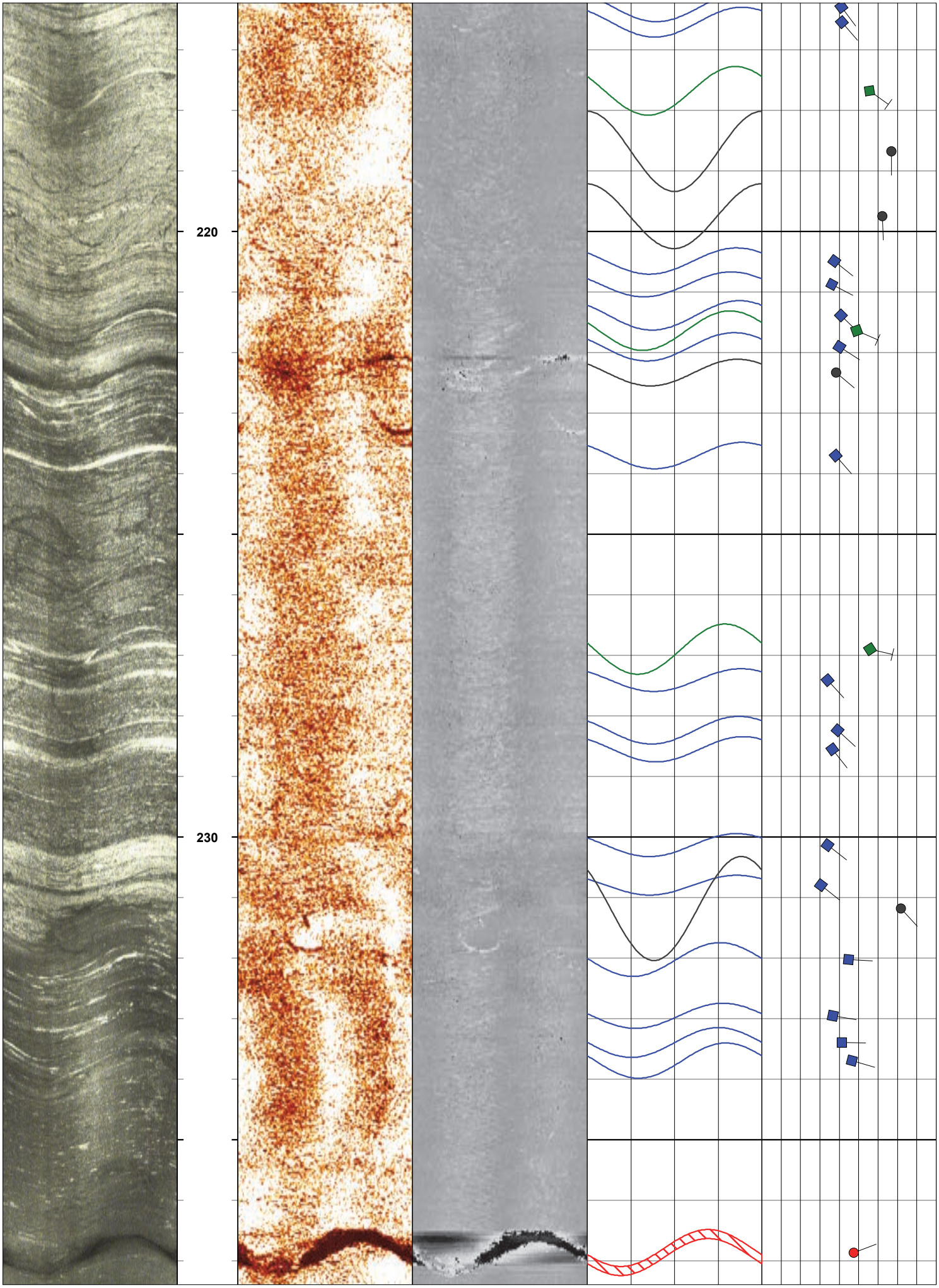

120
130

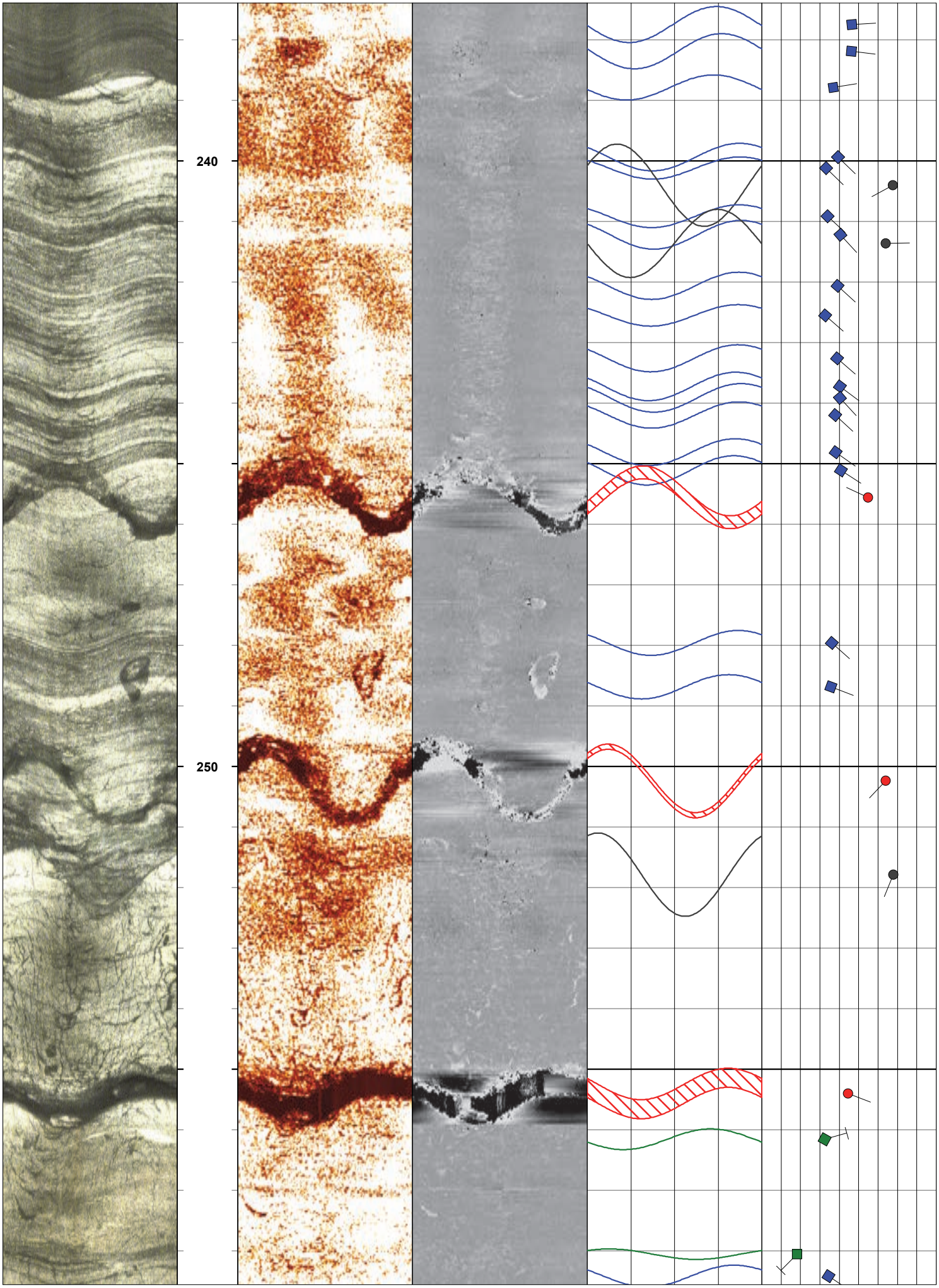

140
150

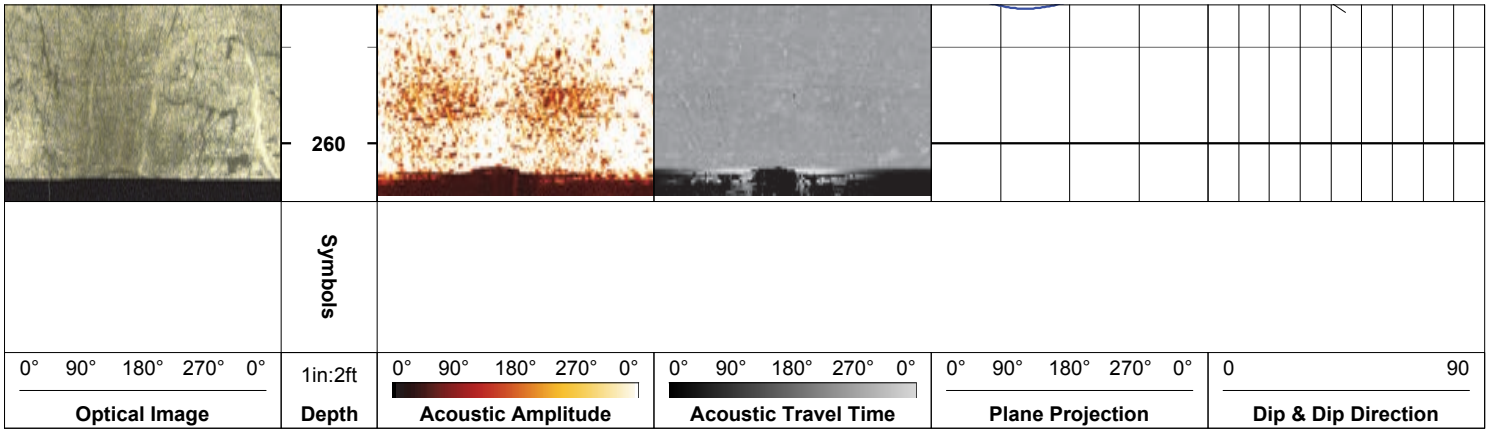

160
170


180
190


200
210


220
230


240
250


260
Symbols
0° 90° 180° 270° 0°
Optical Image
1in:2ft
Depth
0° 90° 180° 270° 0°
Acoustic Amplitude
0° 90° 180° 270° 0°
Acoustic Travel Time
0° 90° 180° 270° 0°
Plane Projection
0 90
Dip & Dip Direction

DW-03A

Hydro Log

ARM GEOPHYSICS
Surface & Borehole Services

COMP	Greene Environmental
WELL	DW-03A
FLD	Vinton
CNTY	Roanoke
STAT	VA
ARM	170607
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-03A ARM NO.: 170607
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Roanoke

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

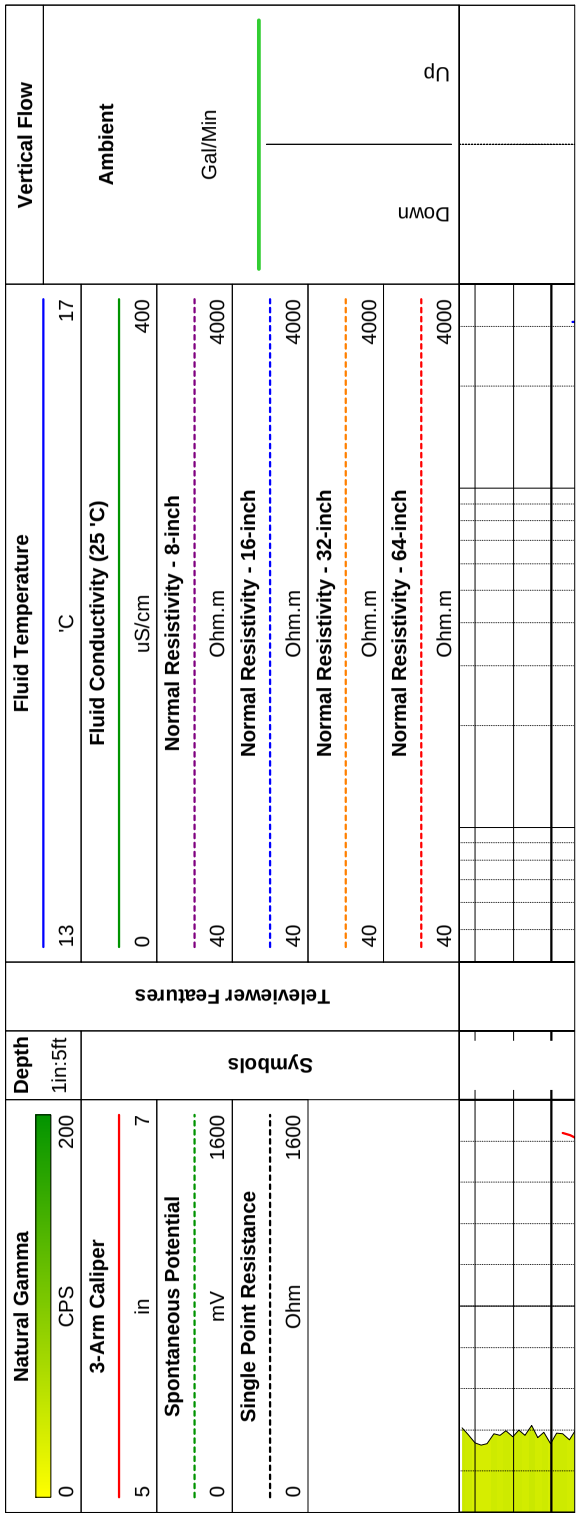
OTHER SERVICES

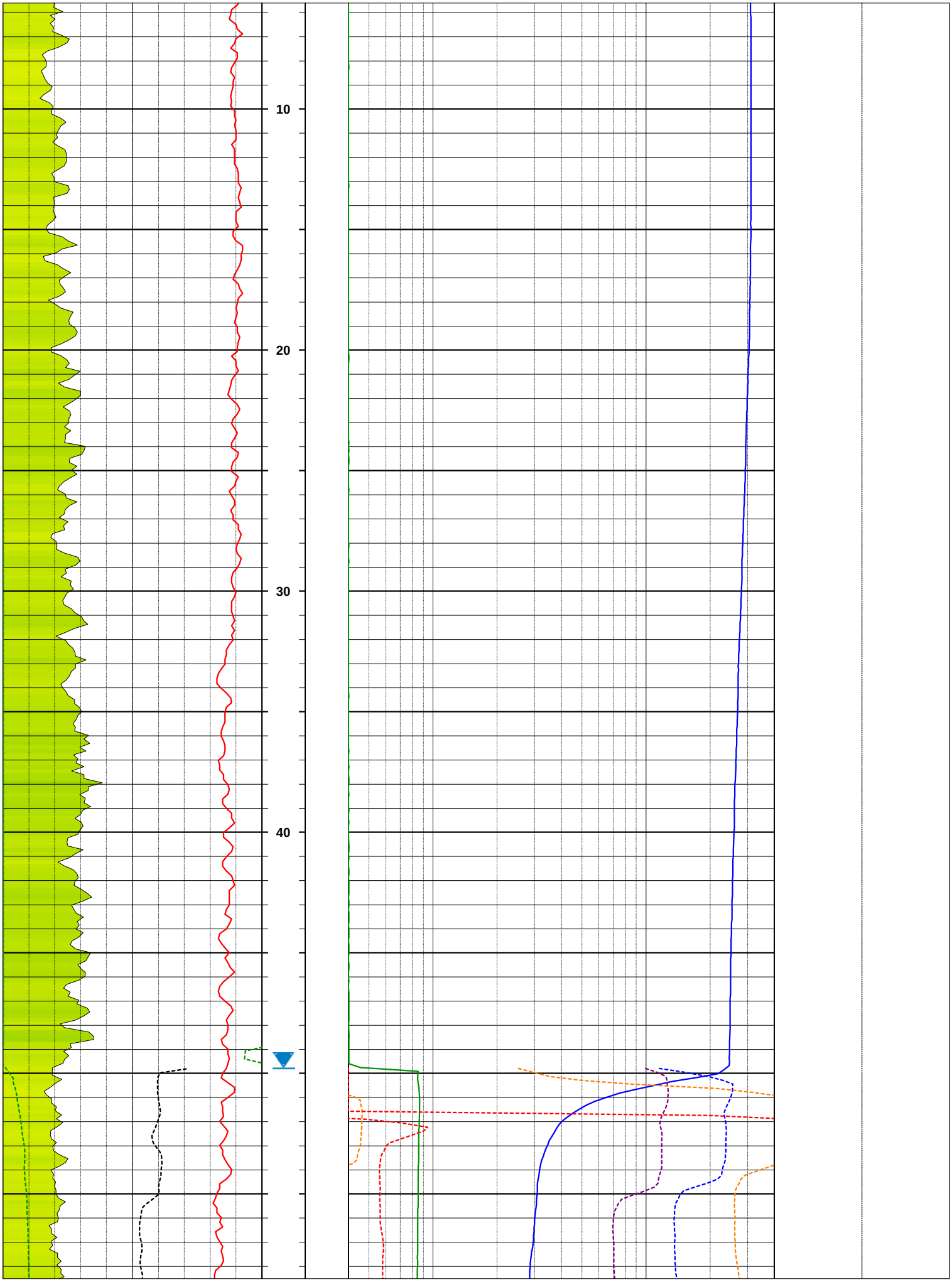
PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 0.62 G.L.

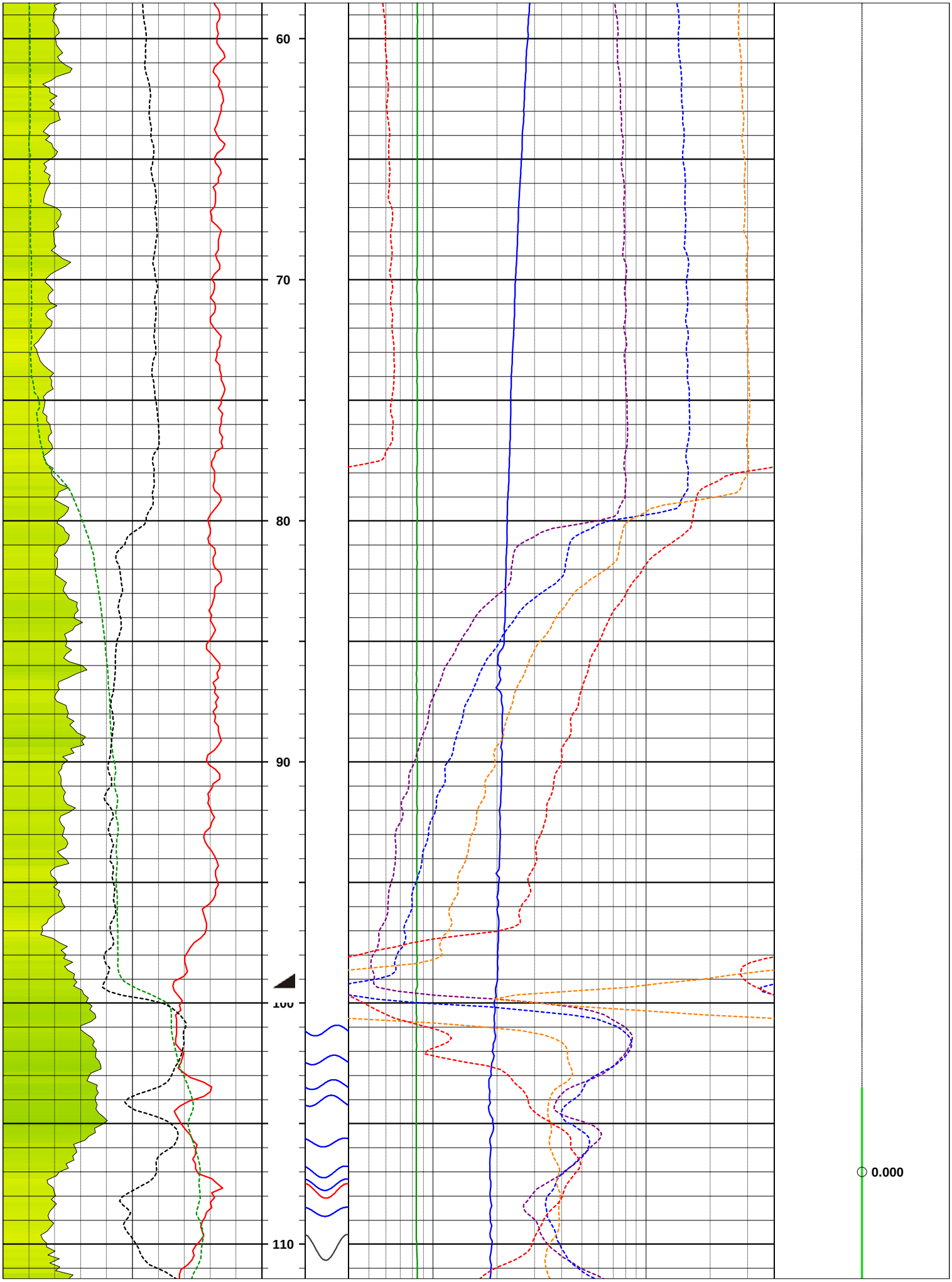
LOGGING DATE	10.31.2017	11.01.2017	11.01.2017	11.01.2017	
RUN NO	1	4	5	6	
TYPE LOG	FTC.GR	CAL	RES	HPFM A	
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	197.5	192.58	192.58	N/A	
BTM LOGGED INTERVAL (FT)	197.5	192.58	192.58	184	
TOP LOGGED INTERVAL (FT)	5.51	5.97	5.97	107	
CASING SIZE (IN)/DEPTH (FT)	6/	6/	6/	6/	
CASING ARM (FT)	99.36	99.36	99.36	99.36	
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	49.72				
MAG. DECLINATION (DEG)	8.77 W	8.77 W	8.77 W	8.77 W	
RECORDED BY	D. Apple	D. Apple	D. Apple	D. Apple	
WITNESSED BY	D. Rajkovic	D. Rajkovic	D. Rajkovic	D. Rajkovic	

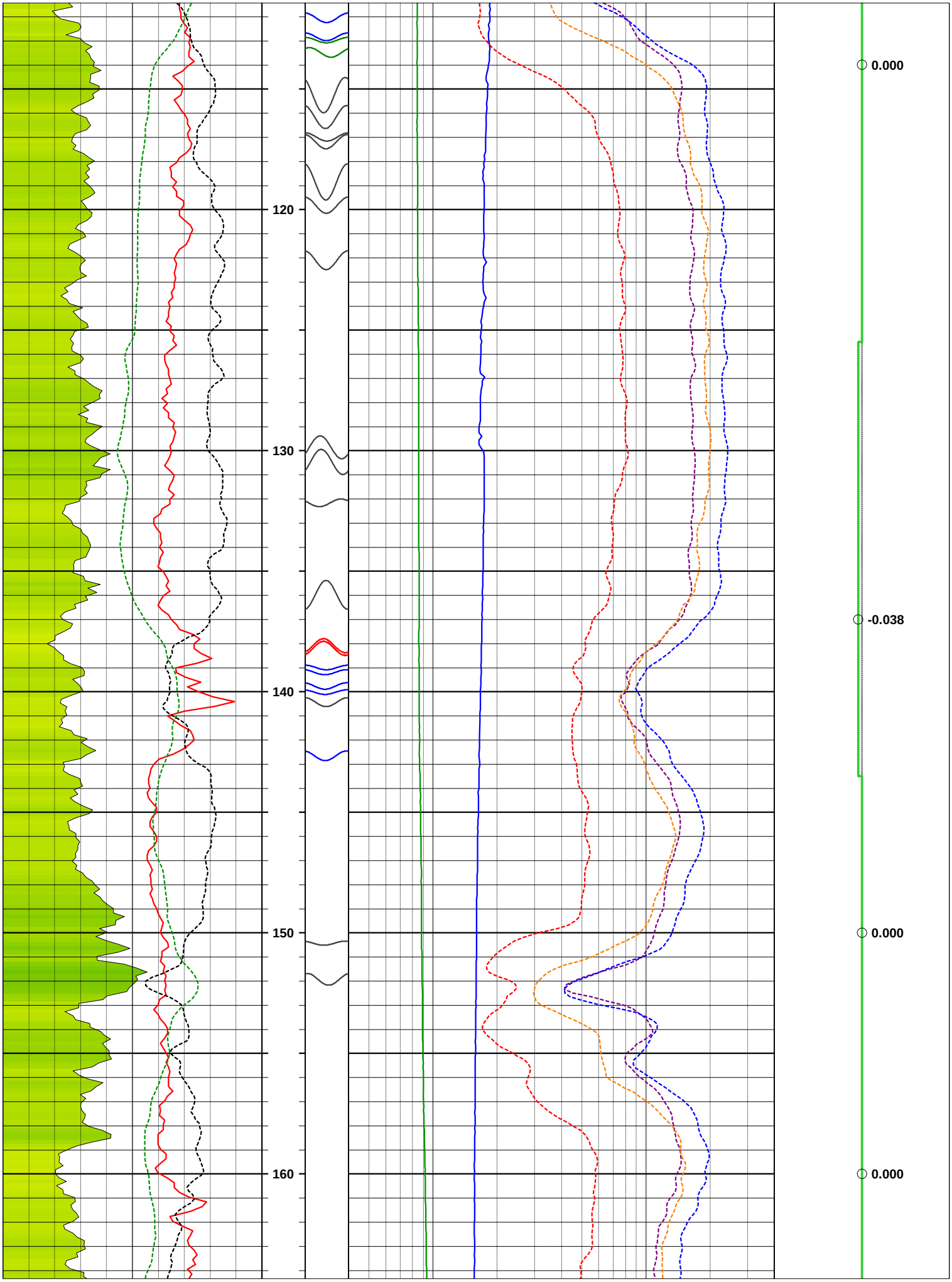
REMARKS:

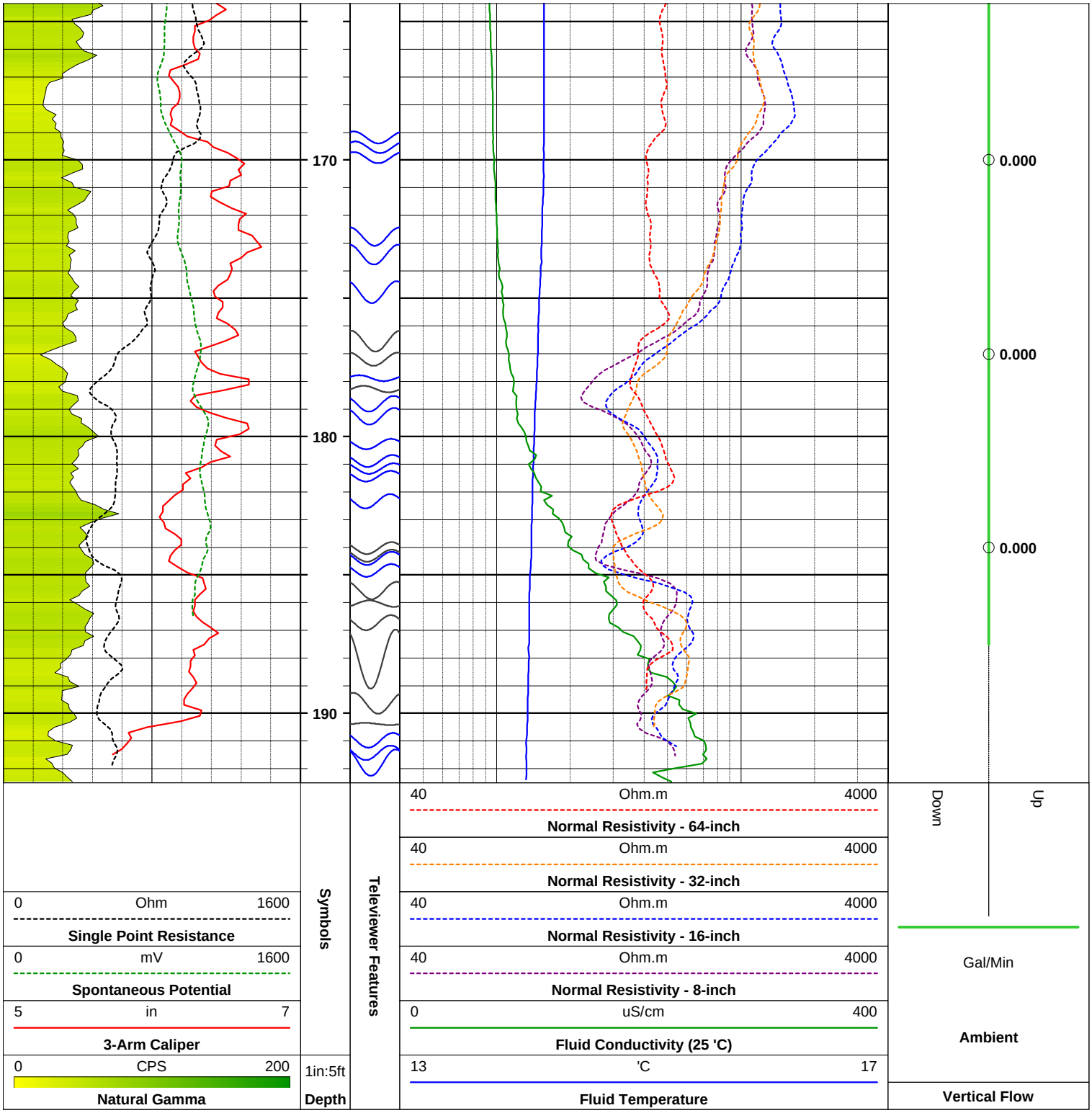
Symbols
Bottom of Casing
Fluid Level




10
20
30
40


60
70
80
90
100
110
0.000


120
130
140
150
160
0.000
-0.038
0.000
0.000


170
180
190
0.000
0.000
0.000
0 Ohm 1600
Single Point Resistance
0 mV 1600
Spontaneous Potential
5 in 7
3-Arm Caliper
0 CPS 200
Natural Gamma
Symbols
1in:5ft
Depth
Televiewer Features
40 Ohm.m 4000
Normal Resistivity - 64-inch
40 Ohm.m 4000
Normal Resistivity - 32-inch
40 Ohm.m 4000
Normal Resistivity - 16-inch
40 Ohm.m 4000
Normal Resistivity - 8-inch
0 uS/cm 400
Fluid Conductivity (25 'C)
13 'C 17
Fluid Temperature
Down
Up
Gal/Min
Ambient
Vertical Flow

Televiewer Logs

ARM GEOPHYSICS
Surface & Borehole Services

COMP Greene Environmental
WELL DW-03A
FLD Vinton
CNTY Roanoke
STAT VA
ARM 170607
API N/A

COMPANY:	Greene Environmental	STATE:	VA
WELL ID:	DW-03A	ARM NO.:	170607
FIELD/SITE:	Vinton	API NO.:	N/A
COUNTY:	Roanoke		

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

OTHER SERVICES

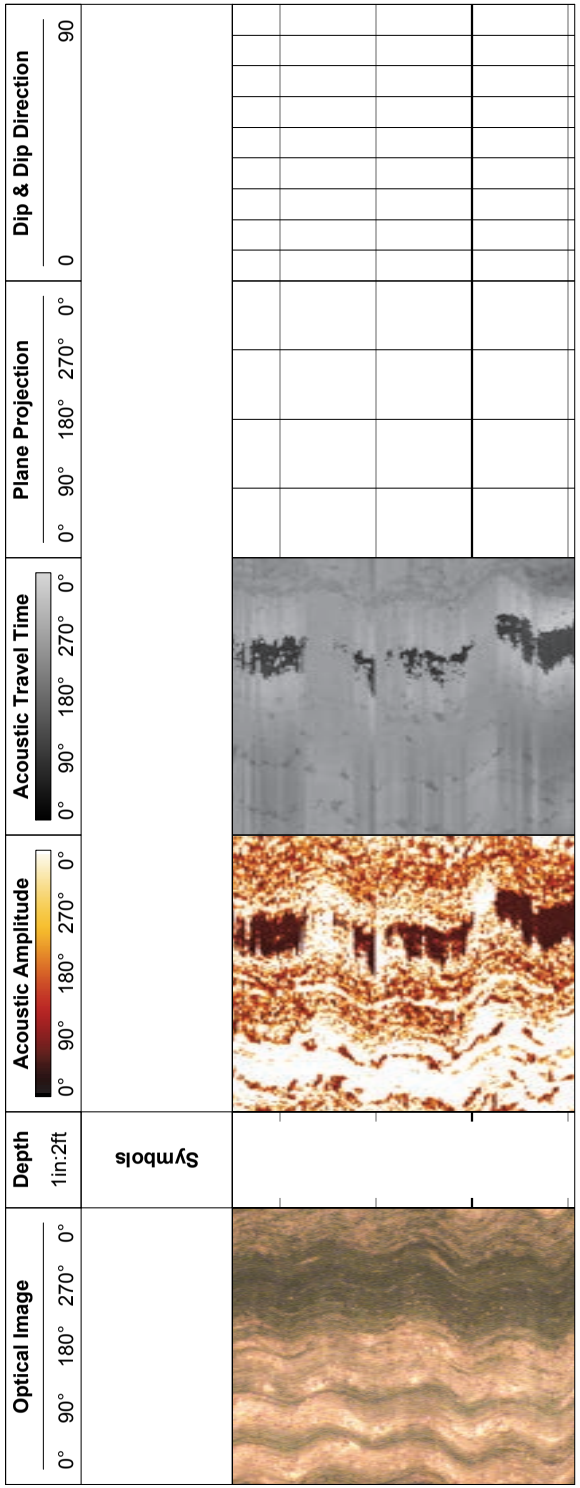
PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 0.62 G.L.

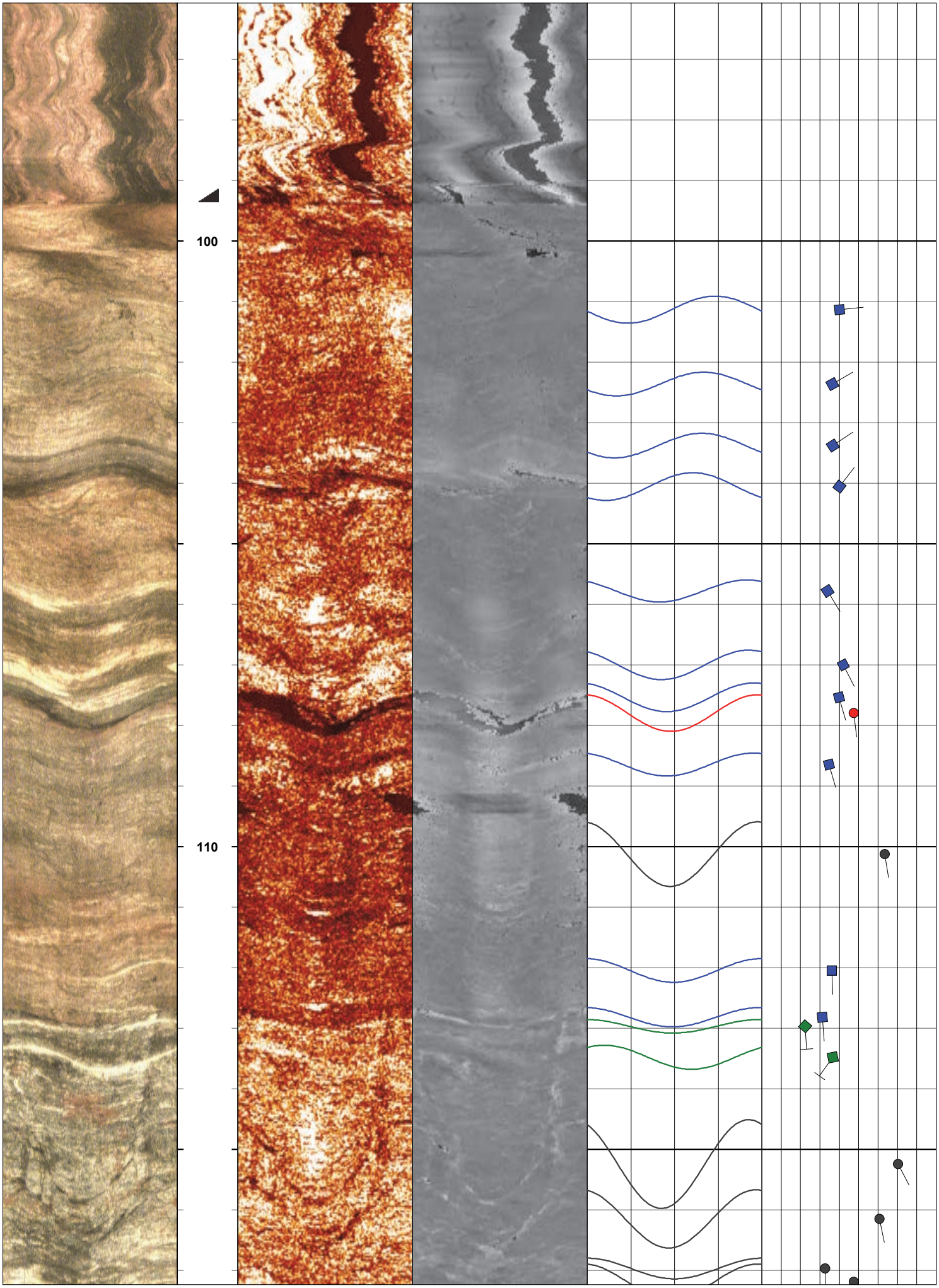
LOGGING DATE	10.31.2017	11.01.2017			
RUN NO	2	3			
TYPE LOG	OTV.GR	ATV.GR			
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	192.58	192.58			
BTM LOGGED INTERVAL (FT)	192.58	192.58			
TOP LOGGED INTERVAL (FT)	6.04	93			
CASING SIZE (IN)/DEPTH (FT)	6/	6/			
CASING ARM (FT)	99.36	99.36			
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	49.93	49.93			
MAG. DECLINATION (DEG)	8.77 W	8.77 W			
RECORDED BY	D. Apple	D. Apple			
WITNESSED BY	D. Rajkovic	D. Rajkovic			

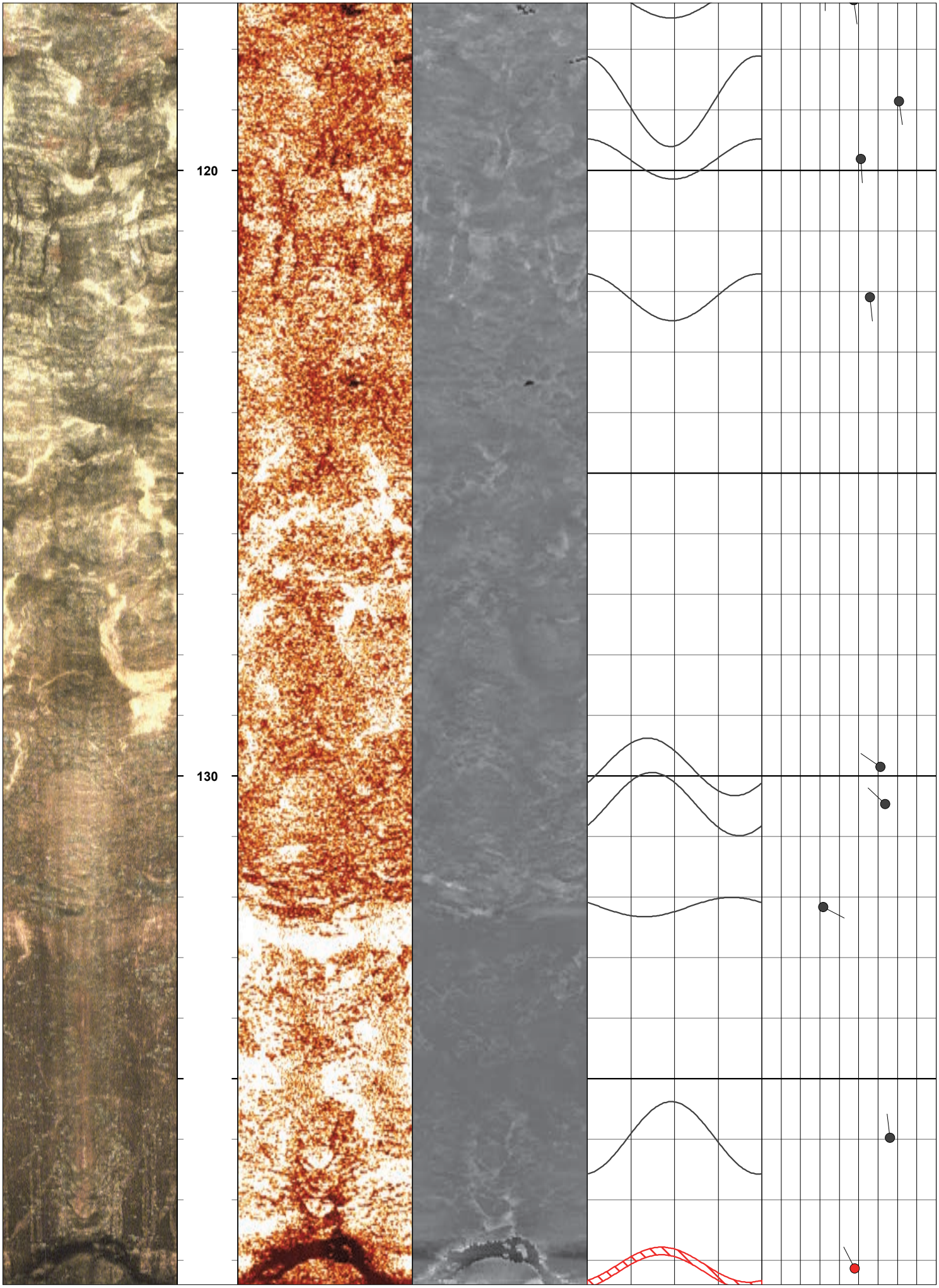
REMARKS:

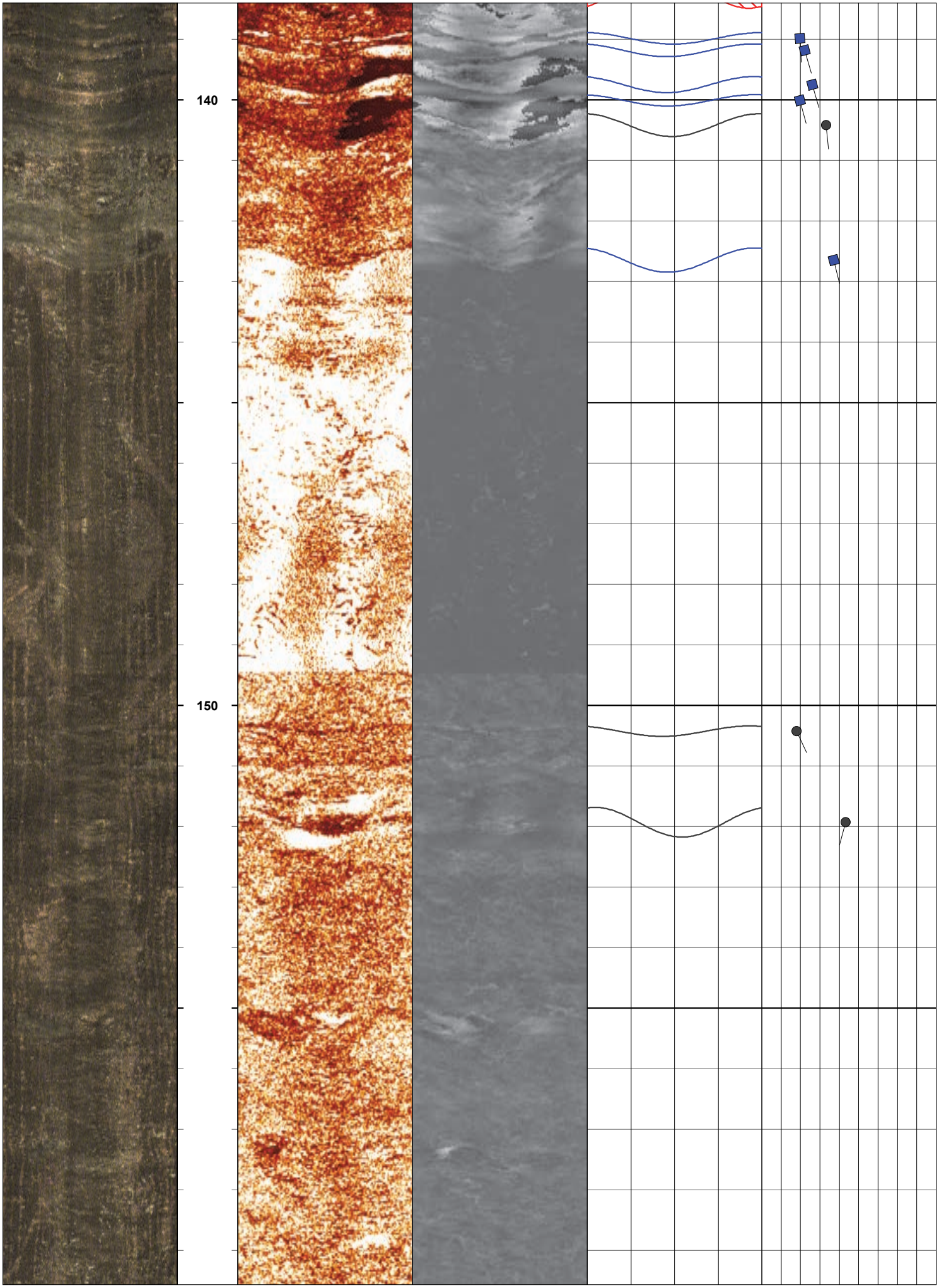
Symbols
Bottom of Casing

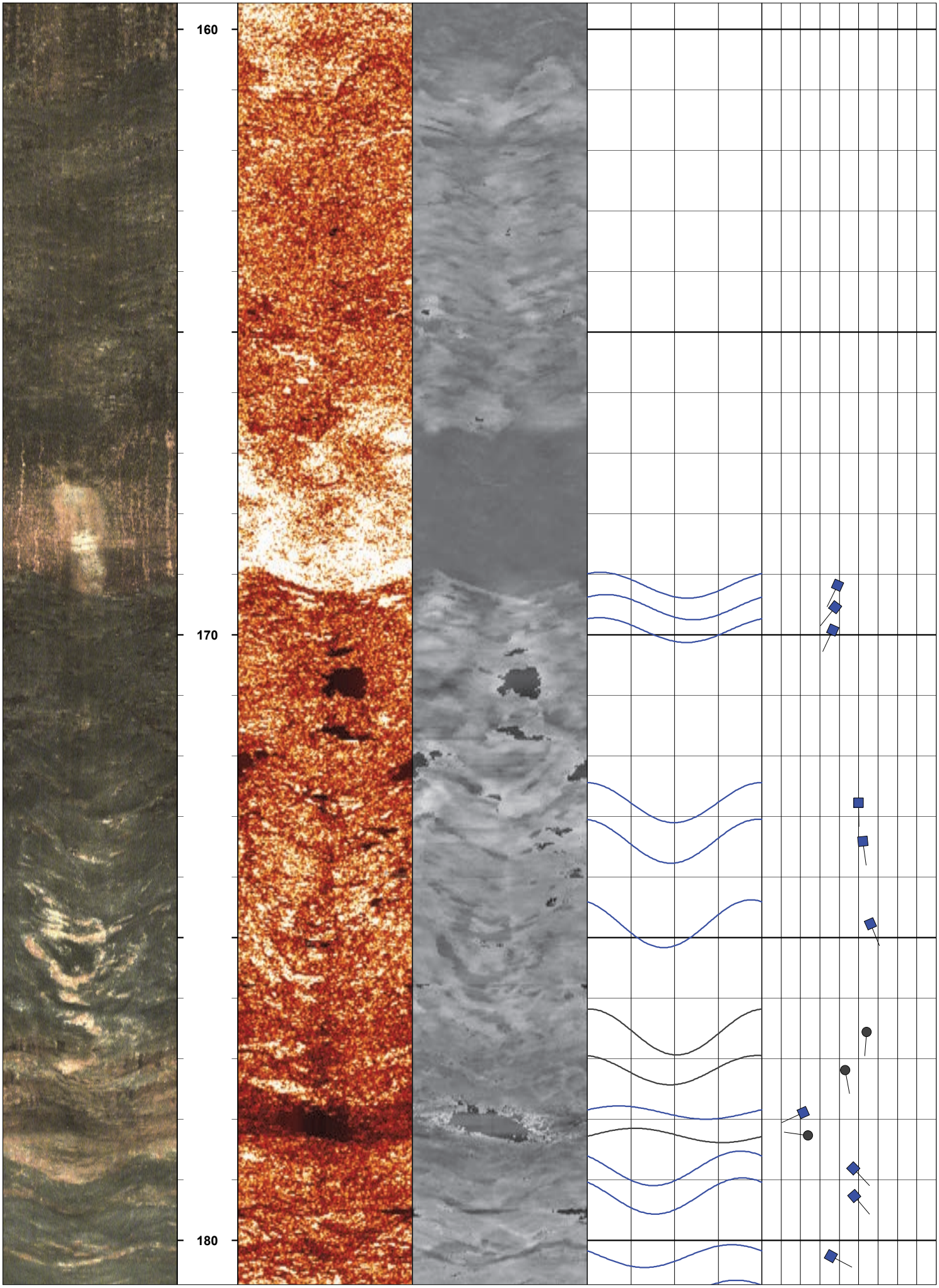
Structure
Open Fracture
Foliation
Part. Open Fract
Filled Fracture

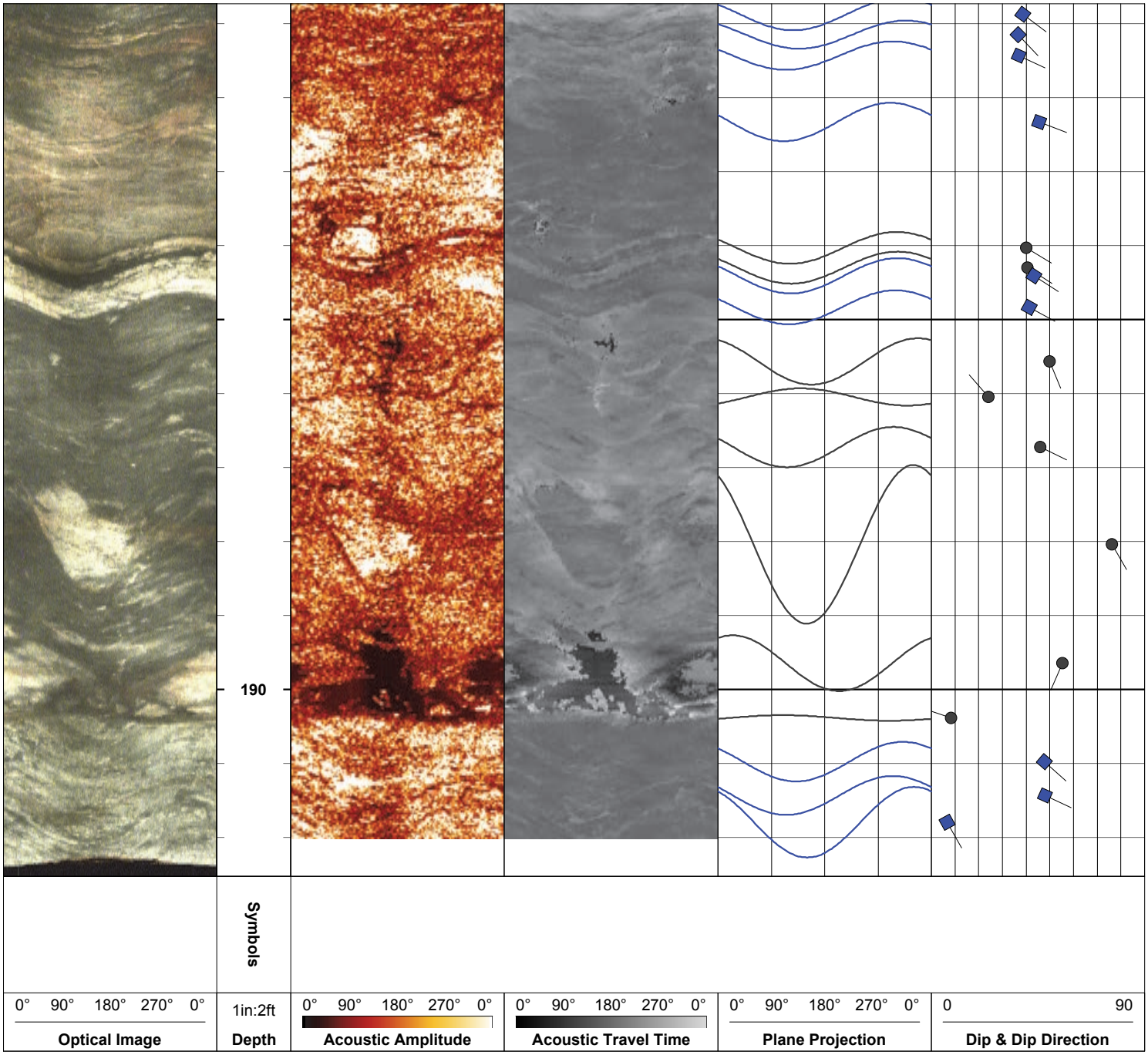



100
110


120
130


140
150


160
170
180


190
Symbols
0° 90° 180° 270° 0°
Optical Image
1in:2ft
Depth
0° 90° 180° 270° 0°
Acoustic Amplitude
0° 90° 180° 270° 0°
Acoustic Travel Time
0° 90° 180° 270° 0°
Plane Projection
0 90
Dip & Dip Direction

DW-04A

Hydro Logs

COMP	Greene Environmental
WELL	DW-04A
FLD	Vinton
CNTY	Roanoke
STAT	VA
ARM	170607
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-04A ARM NO.: 170607
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Roanoke

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

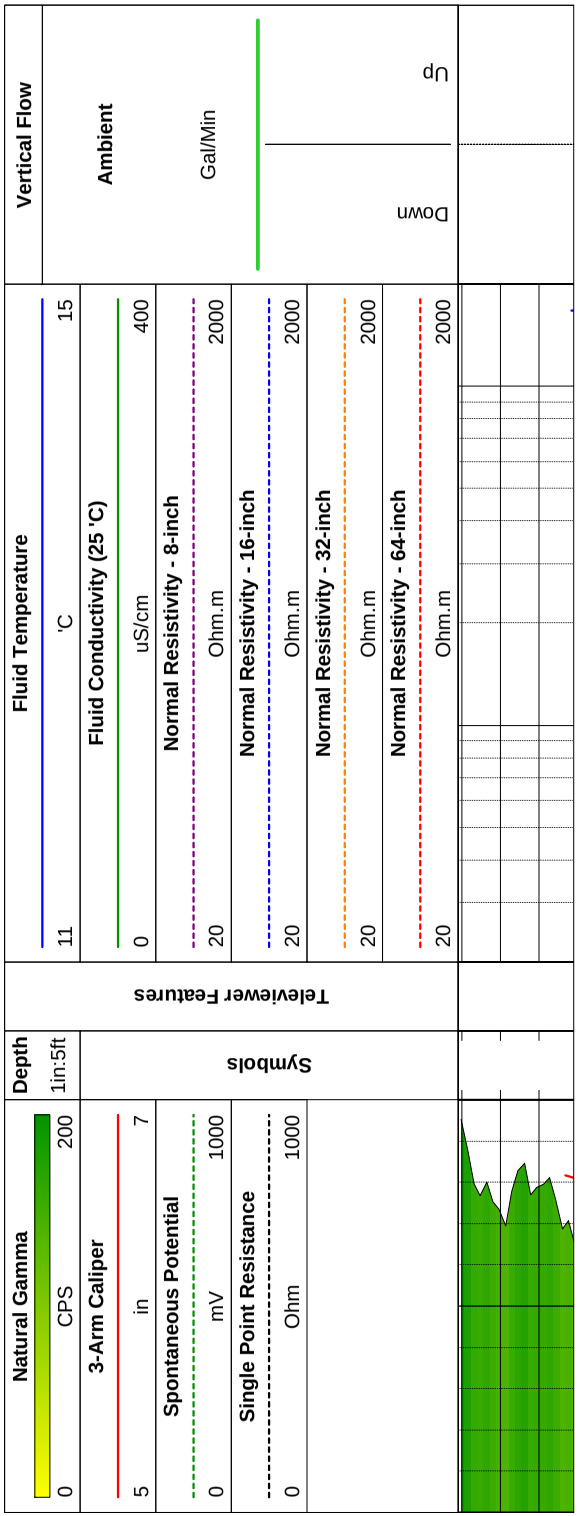
OTHER SERVICES

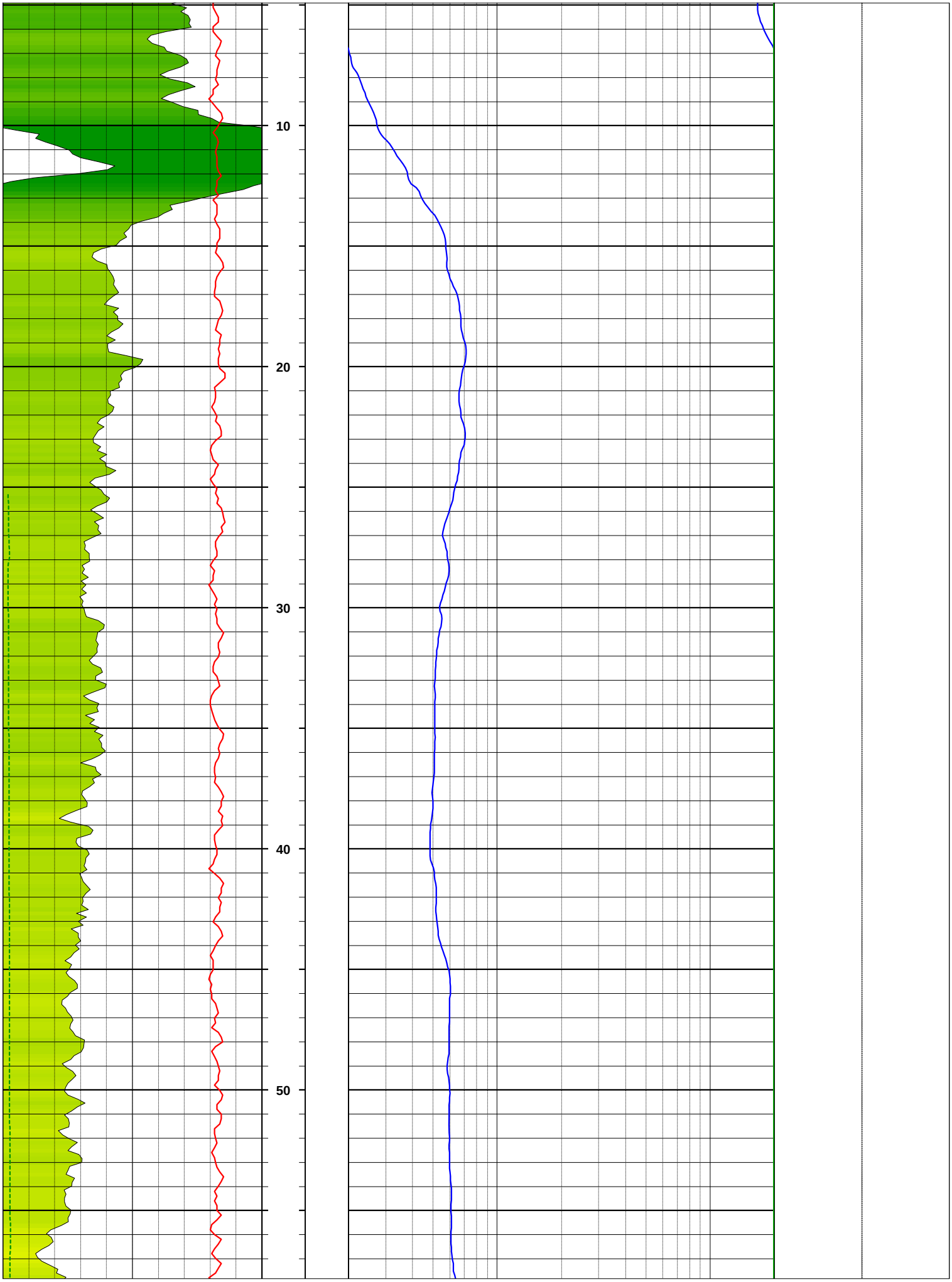
PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.6 G.L.

LOGGING DATE	11.28.2017	11.28.2017	11.28.2017	11.28.2017	
RUN NO	1	3	5	6	
TYPE LOG	FTC.GR	CAL	RES	HPFM A	
DRILLER DEPTH (FT)	200.0	200.0	200.0	200.0	
ARM DEPTH (FT)	164.5	165.7	165.0	N/A	
BTM LOGGED INTERVAL (FT)	164.7	165.7	165.0	161.0	
TOP LOGGED INTERVAL (FT)	4.8	5.4	31.4	84.0	
CASING SIZE (IN)/DEPTH (FT)	6.0/87.0	6.0/87.0	6.0/87.0	6.0/87.0	
CASING ARM (FT)	86.4	86.4	86.4	86.4	
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	61.7	61.7	61.7	61.7	
MAG. DECLINATION (DEG)	8.77 W	8.77 W	8.77 W	8.77 W	
RECORDED BY	D. Apple	D. Apple	D. Apple	D. Apple	
WITNESSED BY	D. Rajkovic	D. Rajkovic	D. Rajkovic	D. Rajkovic	

REMARKS:

Symbols
Bottom of Casing
Fluid Level




10
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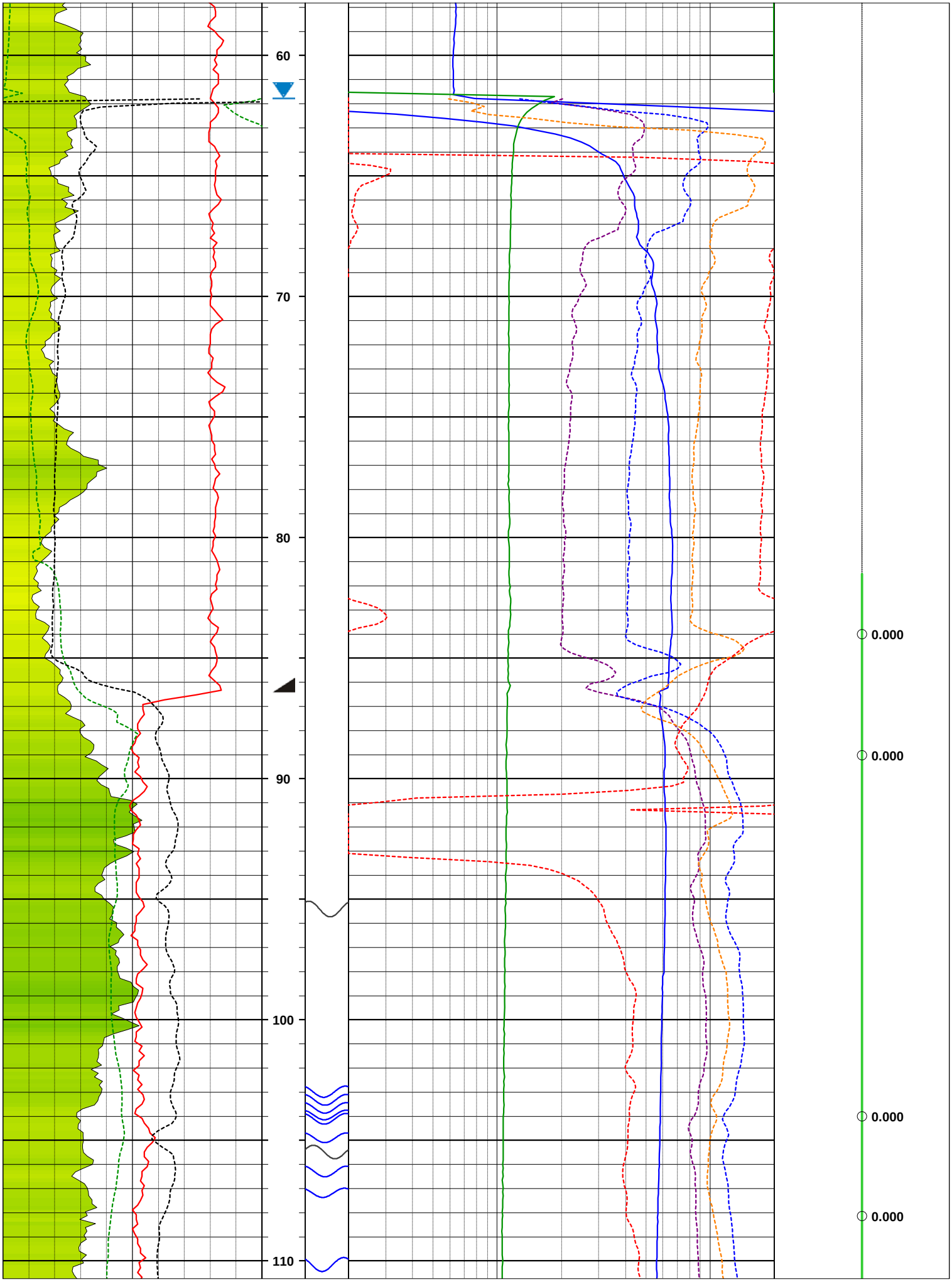
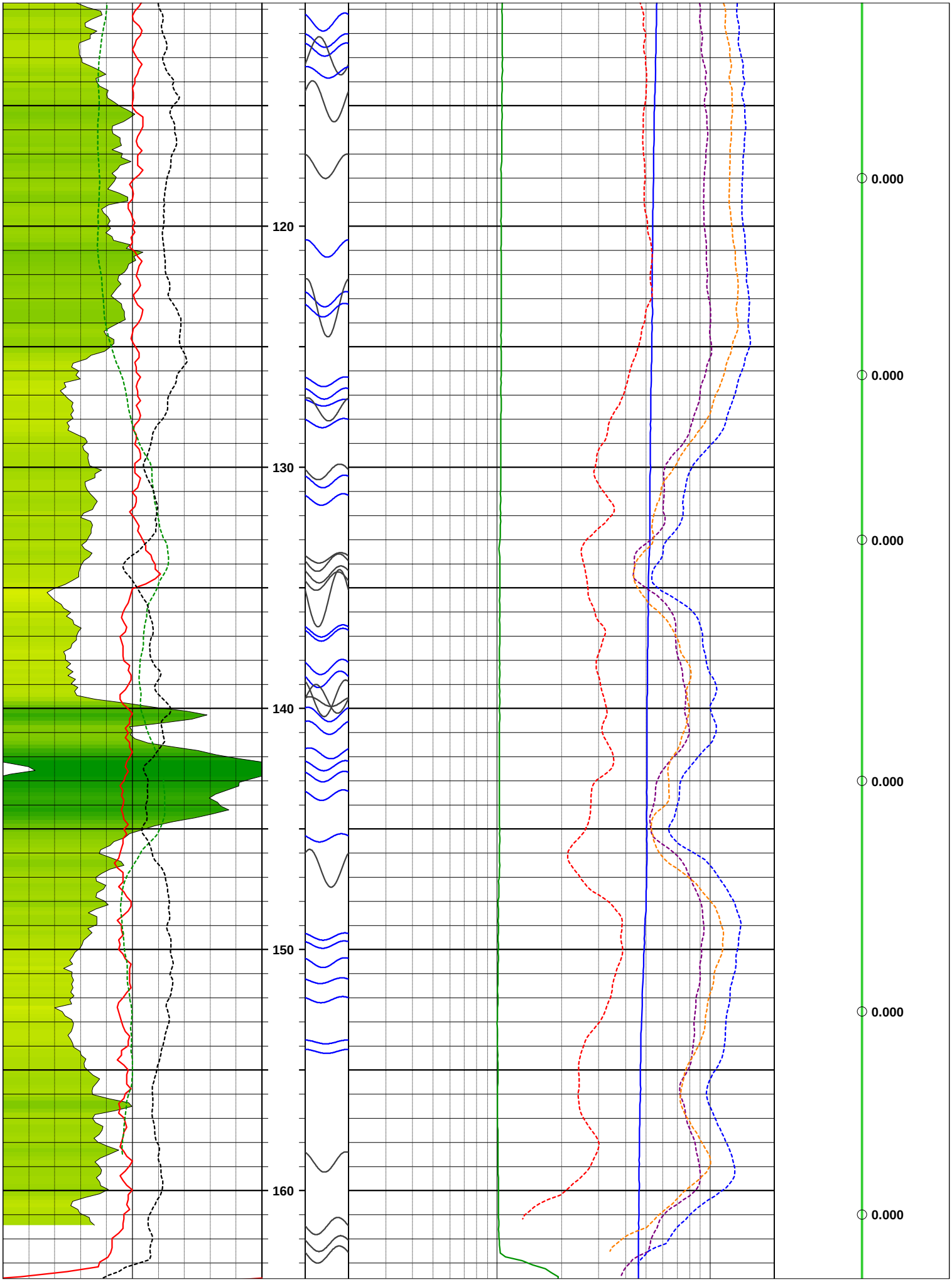
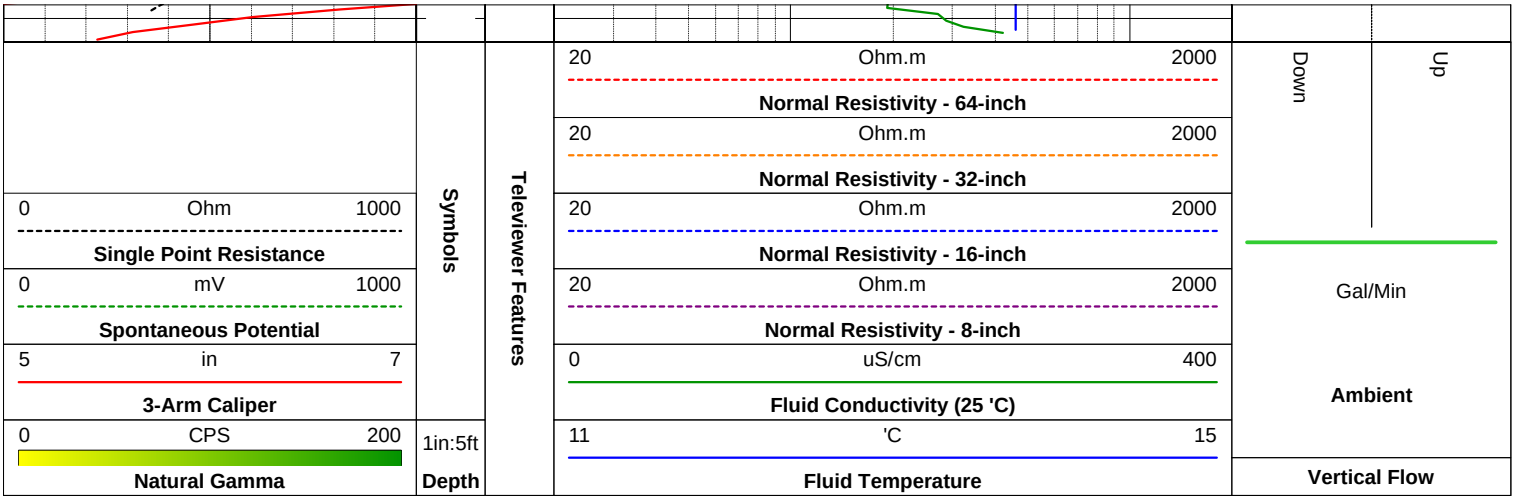
40
50


60
70
80
90
100
110
0.000
0.000
0.000
0.000


120
130
140
150
160
0.000
0.000
0.000
0.000
0.000
0.000


Symbols
Televiewer Features
0 Ohm 1000
Single Point Resistance
0 mV 1000
Spontaneous Potential
5 in 7
3-Arm Caliper
0 CPS 200
Natural Gamma
1in:5ft
Depth
20 Ohm.m 2000
Normal Resistivity - 64-inch
20 Ohm.m 2000
Normal Resistivity - 32-inch
20 Ohm.m 2000
Normal Resistivity - 16-inch
20 Ohm.m 2000
Normal Resistivity - 8-inch
0 uS/cm 400
Fluid Conductivity (25 'C)
11 'C 15
Fluid Temperature
Down
Up
Gal/Min
Ambient
Vertical Flow

Televiewer Logs

COMP	Greene Environmental
WELL	DW-04A
FLD	Vinton
CNTY	Roanoke
STAT	VA
ARM	170607
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-04A ARM NO.: 170607
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Roanoke

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.31 G.L.

LOGGING DATE	11.28.2017	11.28.2017			
RUN NO	2	4			
TYPE LOG	OTV	ATV			
DRILLER DEPTH (FT)	200.0	200.0			
ARM DEPTH (FT)	163.7	165.0			
BTM LOGGED INTERVAL (FT)	163.7	165.0			
TOP LOGGED INTERVAL (FT)	5.4	60.0			
CASING SIZE (IN)/DEPTH (FT)	6.0/87.0	6.0/87.0			
CASING ARM (FT)	86.4	86.4			
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	61.7	61.7			
MAG. DECLINATION (DEG)	8.77 W	8.77 W			
RECORDED BY	D. Apple	D. Apple			
WITNESSED BY	D. Rajkovic	D. Rajkovic			

REMARKS:

Symbols

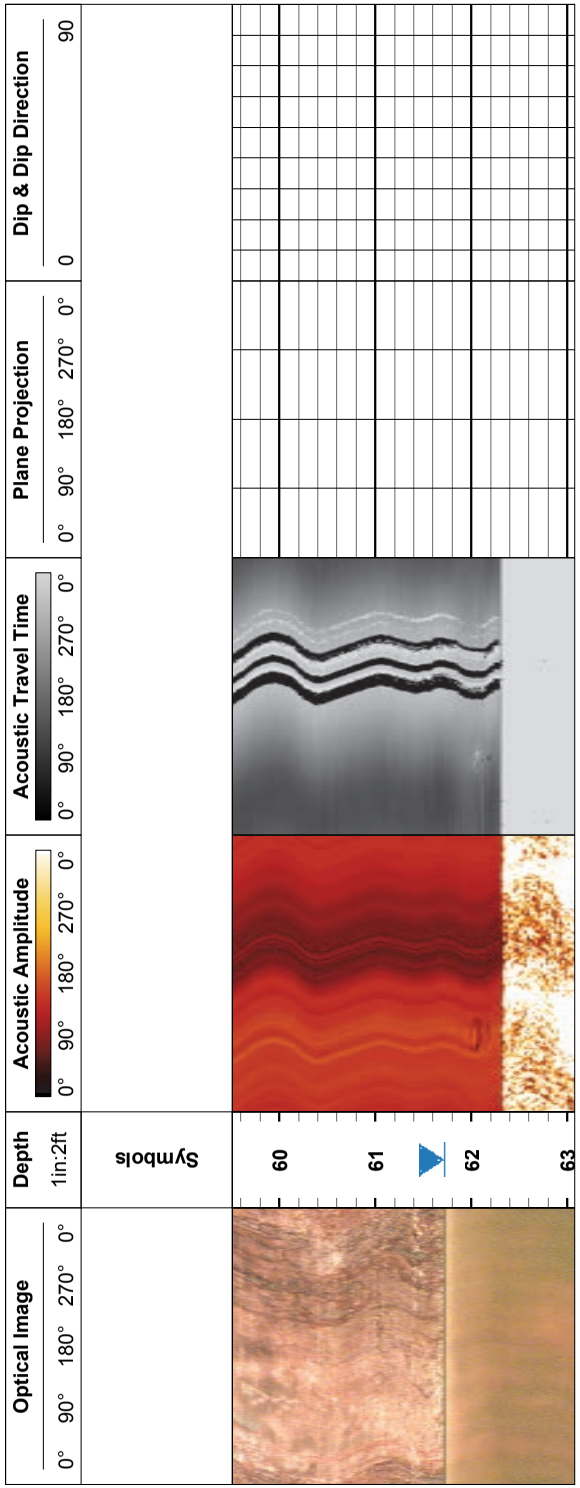
Bottom of Casing

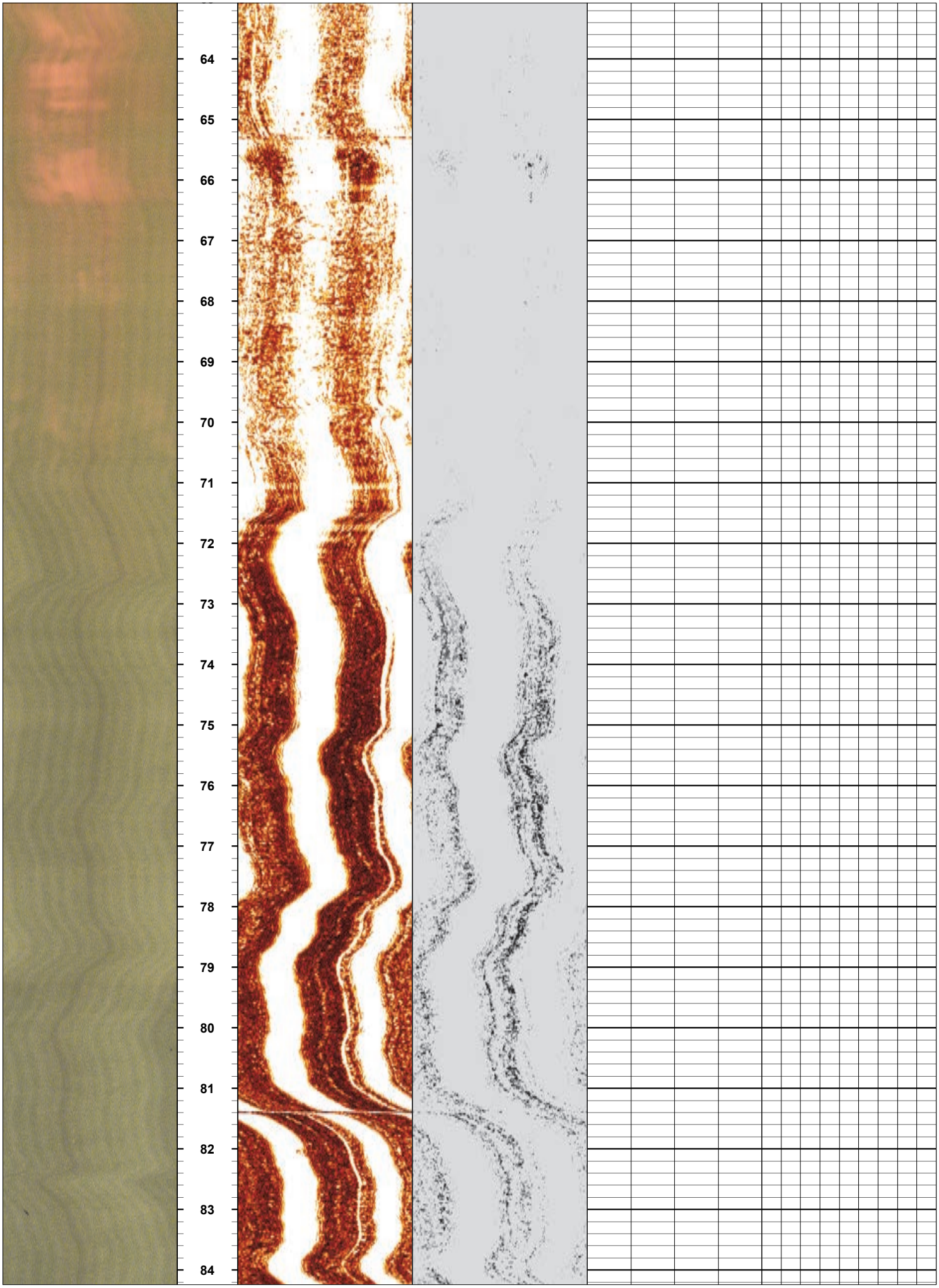
Fluid Level

Structure

Foliation

Part. Open Fract




64
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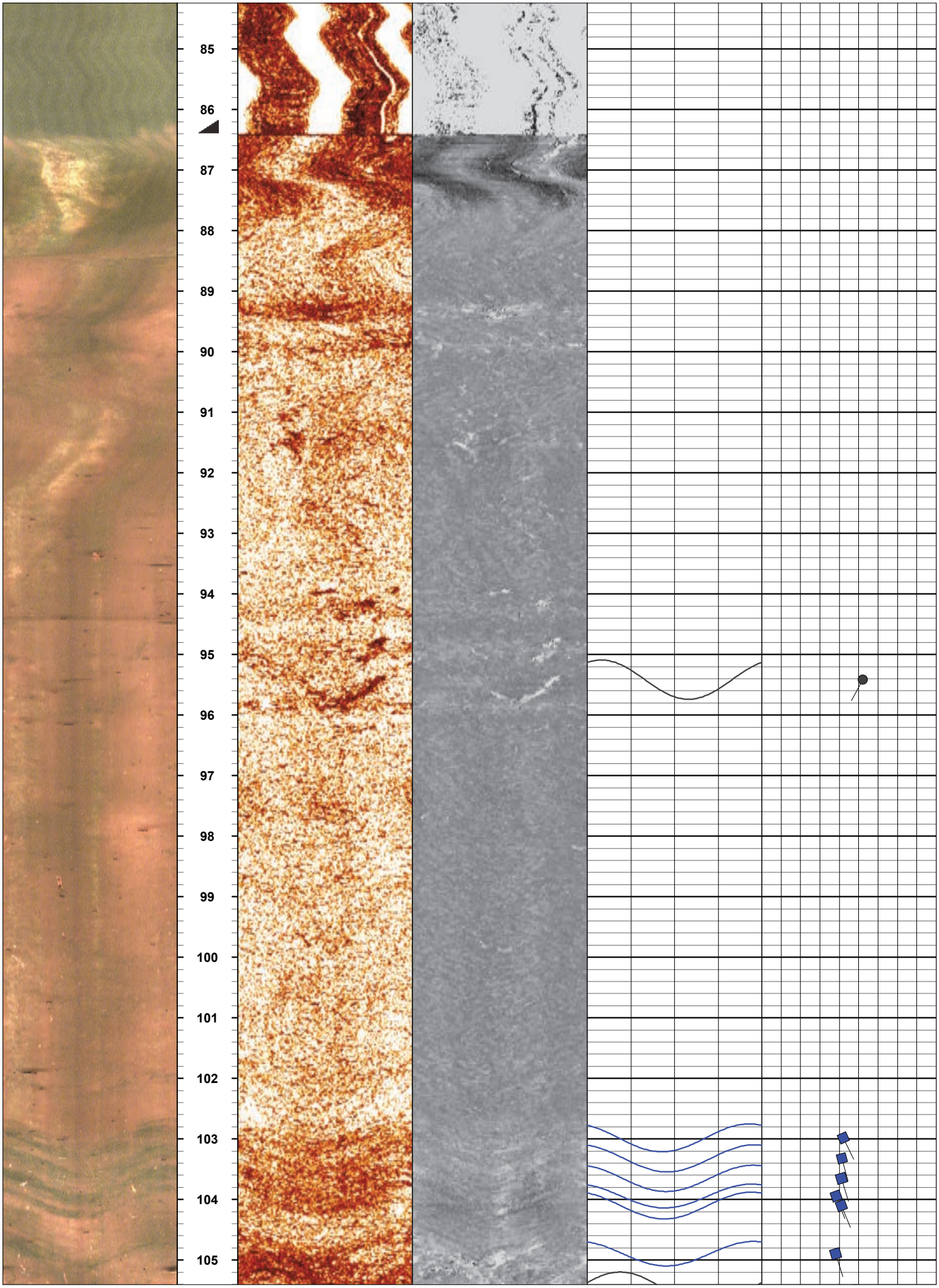
81
82
83
84


85
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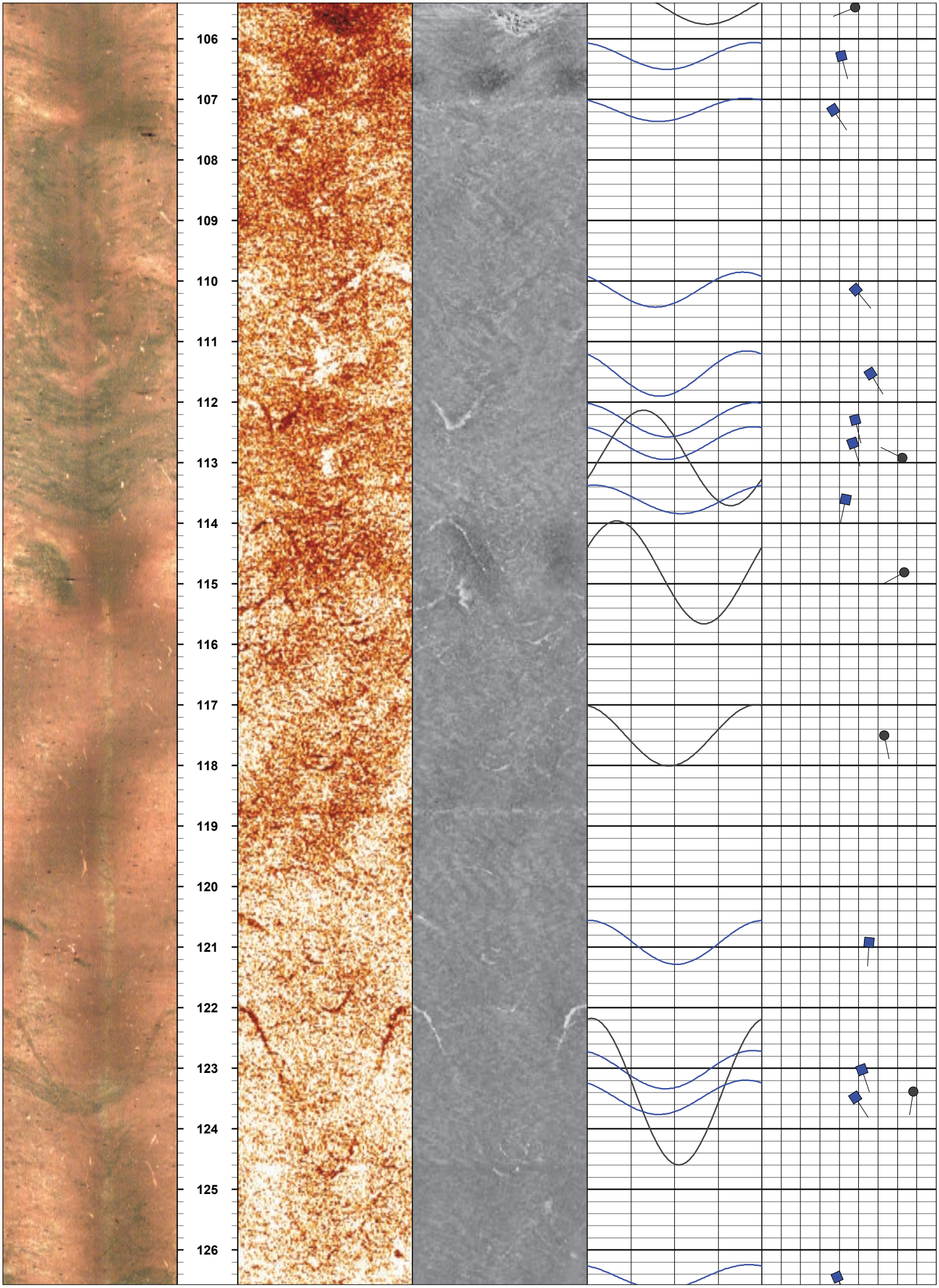
101
102
103
104
105


106
107
108
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120
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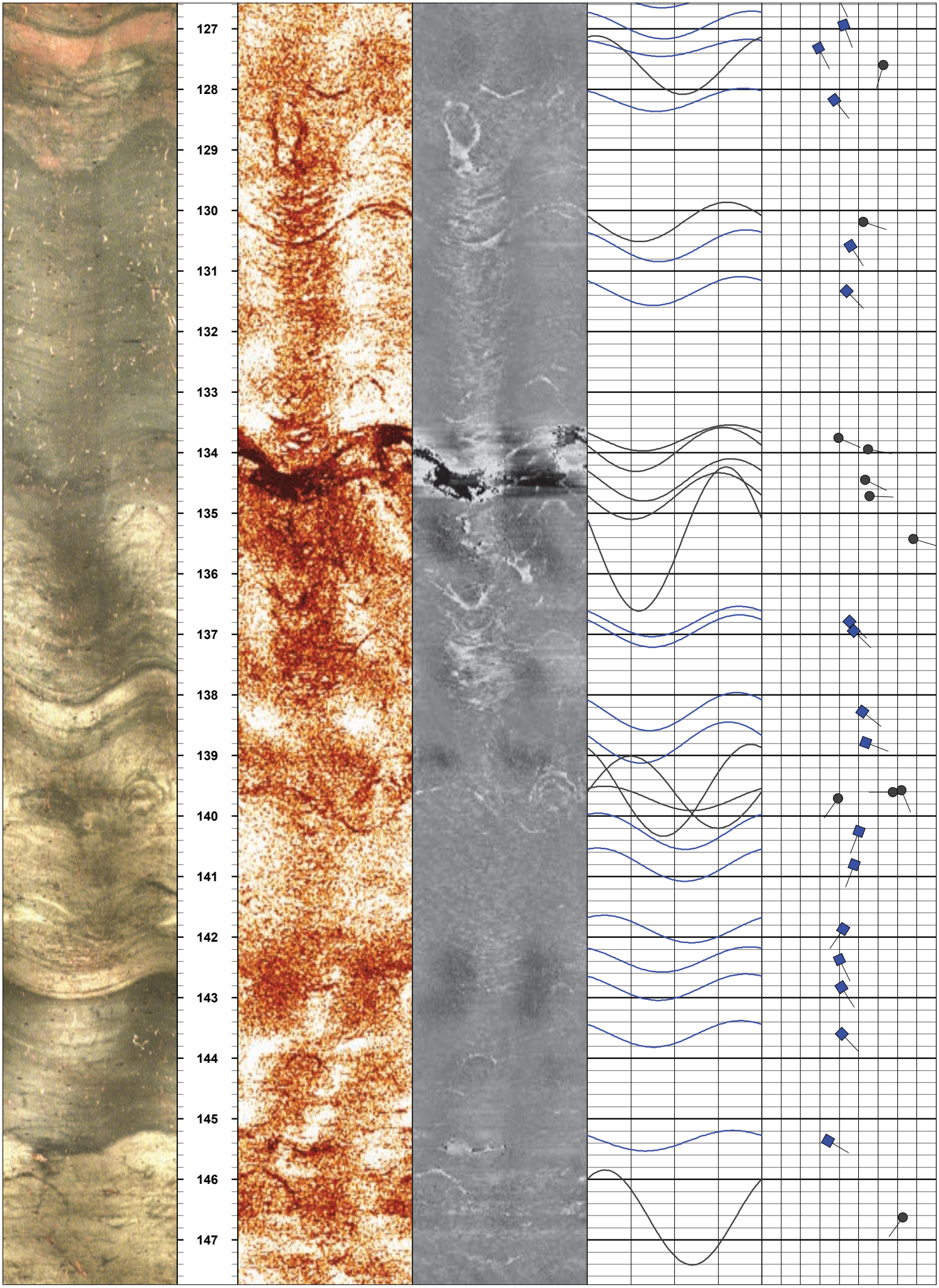
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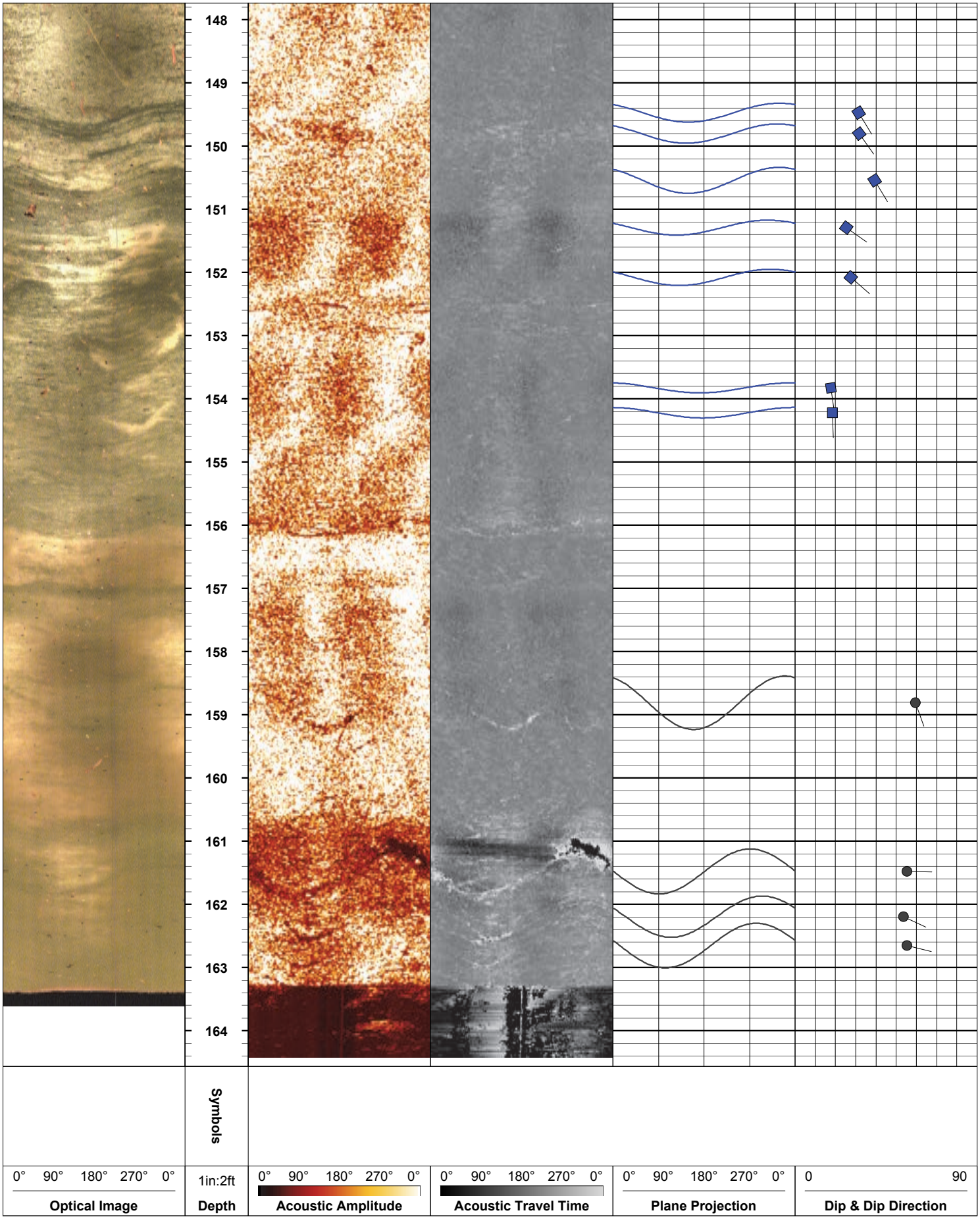
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Symbols
0° 90° 180° 270° 0°
Optical Image
1in:2ft
Depth
0° 90° 180° 270° 0°
Acoustic Amplitude
0° 90° 180° 270° 0°
Acoustic Travel Time
0° 90° 180° 270° 0°
Plane Projection
0 90
Dip & Dip Direction

DW-04B

Hydro Log

ARM GEOPHYSICS
Surface & Borehole Services

COMP	Greene Environmental
WELL	DW-04B
FLD	Vinton
CNTY	Roanoke
STAT	VA
ARM	170612
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-04B ARM NO.: 170612
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Roanoke

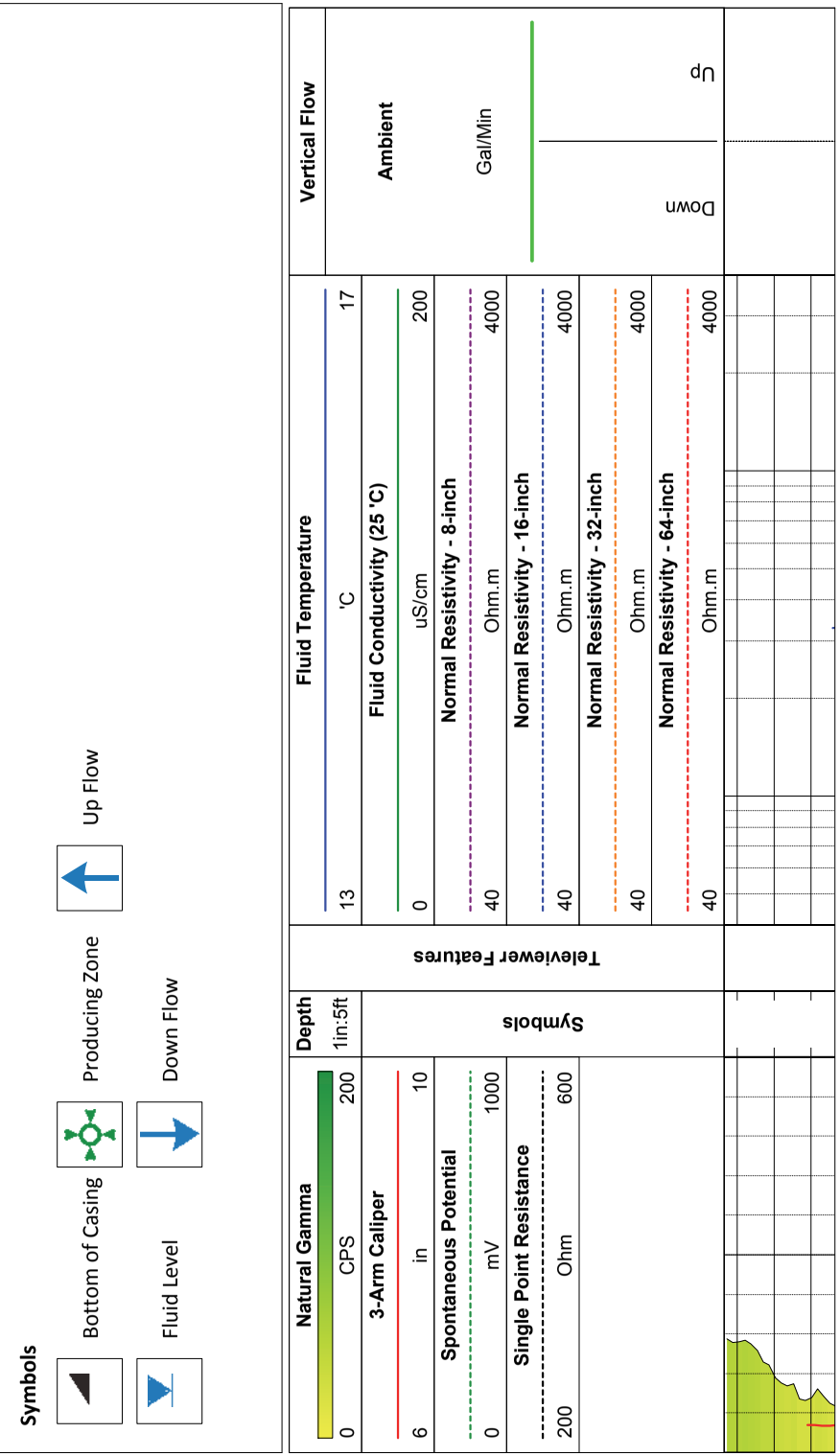
LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

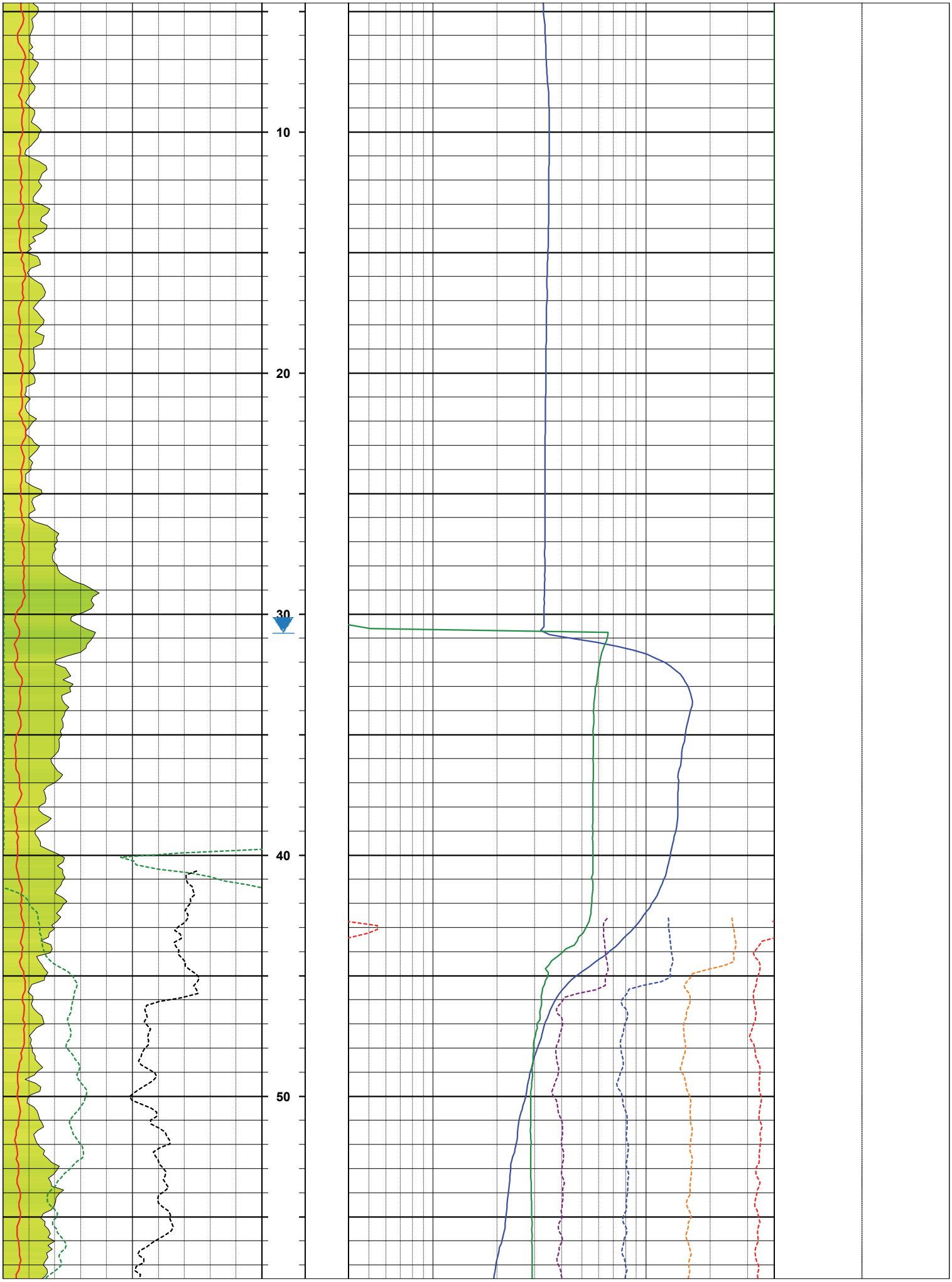
OTHER SERVICES

PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.57 G.L.

LOGGING DATE	11.01.2017	11.01.2017	11.01.2017	11.01.2017	
RUN NO	1	4	5	6	
TYPE LOG	FTC.GR	CAL	RES	HPFM A	
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	82	82	82	N/A	
BTM LOGGED INTERVAL (FT)	82	82	82	81.01	
TOP LOGGED INTERVAL (FT)	4.56	5.11	32.15	68	
CASING SIZE (IN)/DEPTH (FT)	5/	5/	5/	5/	
CASING ARM (FT)	68.73	68.73	68.73	68.73	
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	30.72*				
MAG. DECLINATION (DEG)	8.77 W	8.77 W	8.77 W	8.77 W	
RECORDED BY	D. Apple	D. Apple	D. Apple	D. Apple	
WITNESSED BY	D. Rajkovic	D. Rajkovic	D. Rajkovic	D. Rajkovic	

REMARKS:
*Water entered the borehole after the pitless adapter was removed, raising the water level. The water level continued to drop during logging activities.

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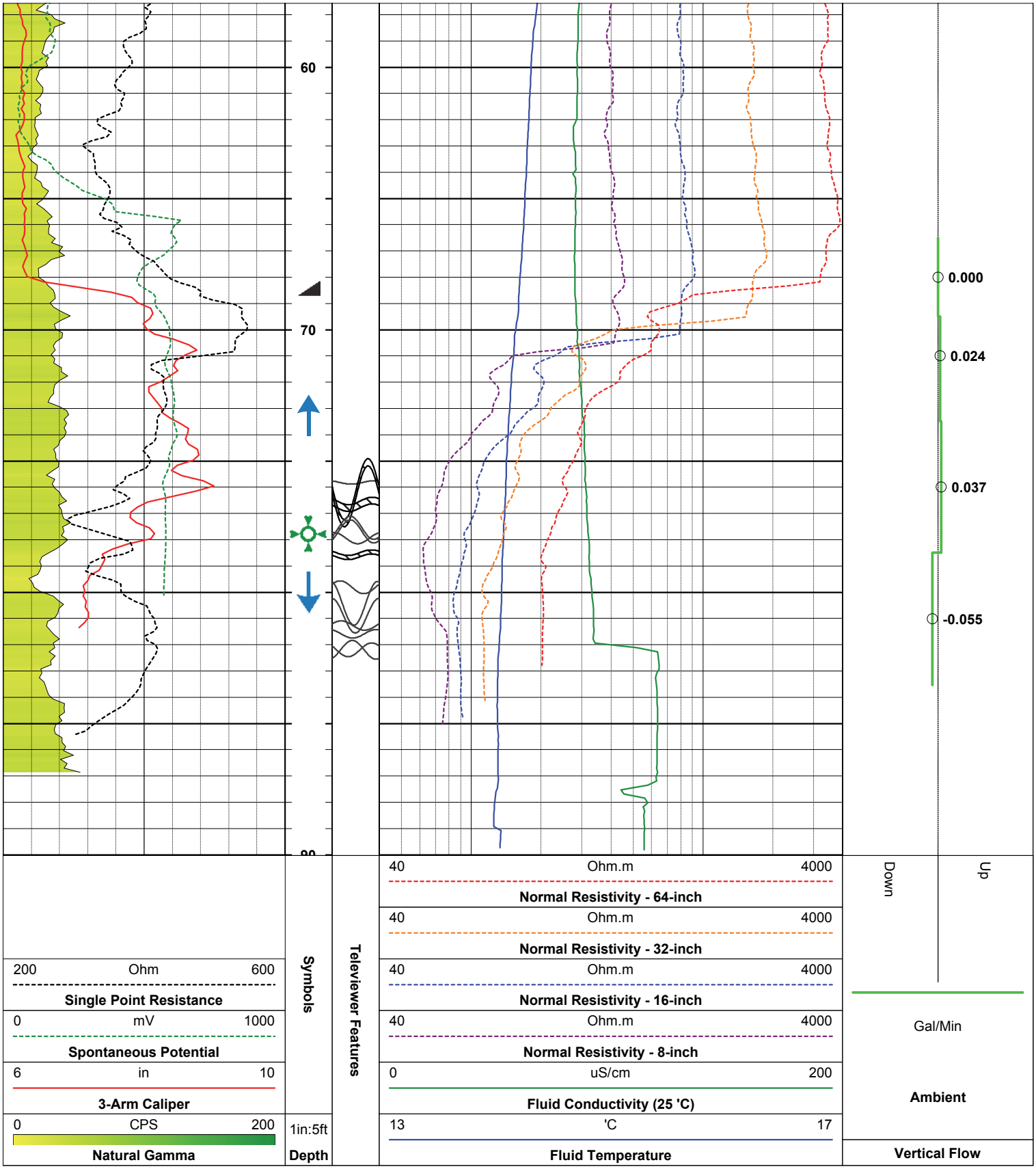
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70
0.000
0.024
0.037
-0.055
200 Ohm 600
Single Point Resistance
0 mV 1000
Spontaneous Potential
6 in 10
3-Arm Caliper
0 CPS 200
Natural Gamma
Symbols
1in:5ft
Depth
Televiewer Features
40 Ohm.m 4000
Normal Resistivity - 64-inch
40 Ohm.m 4000
Normal Resistivity - 32-inch
40 Ohm.m 4000
Normal Resistivity - 16-inch
40 Ohm.m 4000
Normal Resistivity - 8-inch
0 uS/cm 200
Fluid Conductivity (25 'C)
13 'C 17
Fluid Temperature
Down
Up
Gal/Min
Ambient
Vertical Flow

Televiewer Logs

COMP	Greene Environmental
WELL	DW-04B
FLD	Vinton
CNTY	Roanoke
STAT	VA
ARM	170612
API	N/A

COMPANY: Greene Environmental STATE: VA
WELL ID: DW-04B ARM NO.: 170612
FIELD/SITE: Vinton API NO.: N/A
COUNTY: Roanoke

LOCATION:
NORTHING:
EASTING:
SEC: TWP: QUAD:

OTHER SERVICES

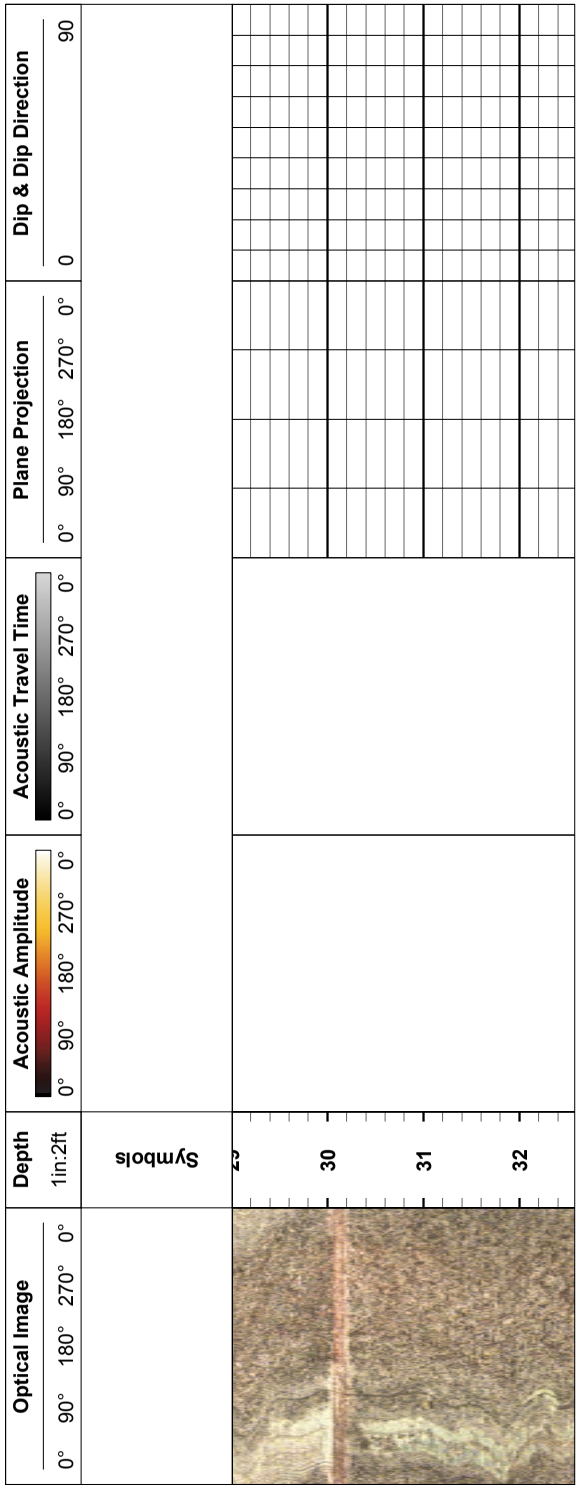
PERMANENT DATUM: Ground Surface ELEVATION: K.B.
LOG MEASURED FROM: Ground Surface ABOVE PERM. DATUM: D.F.
DRILLING MEAS. FROM: STICK UP: 1.57 G.L.

LOGGING DATE	11.01.2017	11.01.2017			
RUN NO	2	3			
TYPE LOG	OTV.GR	ATV.GR			
DRILLER DEPTH (FT)					
ARM DEPTH (FT)	82	82			
BTM LOGGED INTERVAL (FT)	82	82			
TOP LOGGED INTERVAL (FT)	5.09	4.34			
CASING SIZE (IN)/DEPTH (FT)	5/	5/			
CASING ARM (FT)	68.73	68.73			
BIT SIZE (IN)					
FLUID LEVEL IN HOLE (FT)	36.73*				
MAG. DECLINATION (DEG)	8.77 W	8.77 W			
RECORDED BY	D. Apple	D. Apple			
WITNESSED BY	D. Rajkovic	D. Rajkovic			

REMARKS:
*Water entered the borehole after the pitless adapter was removed, raising the water level. The water level continued to drop during logging activities.

Structure
Part. Open Fract
Broken/Void/Soft Zone

Symbols
Bottom of Casing
Fluid Level



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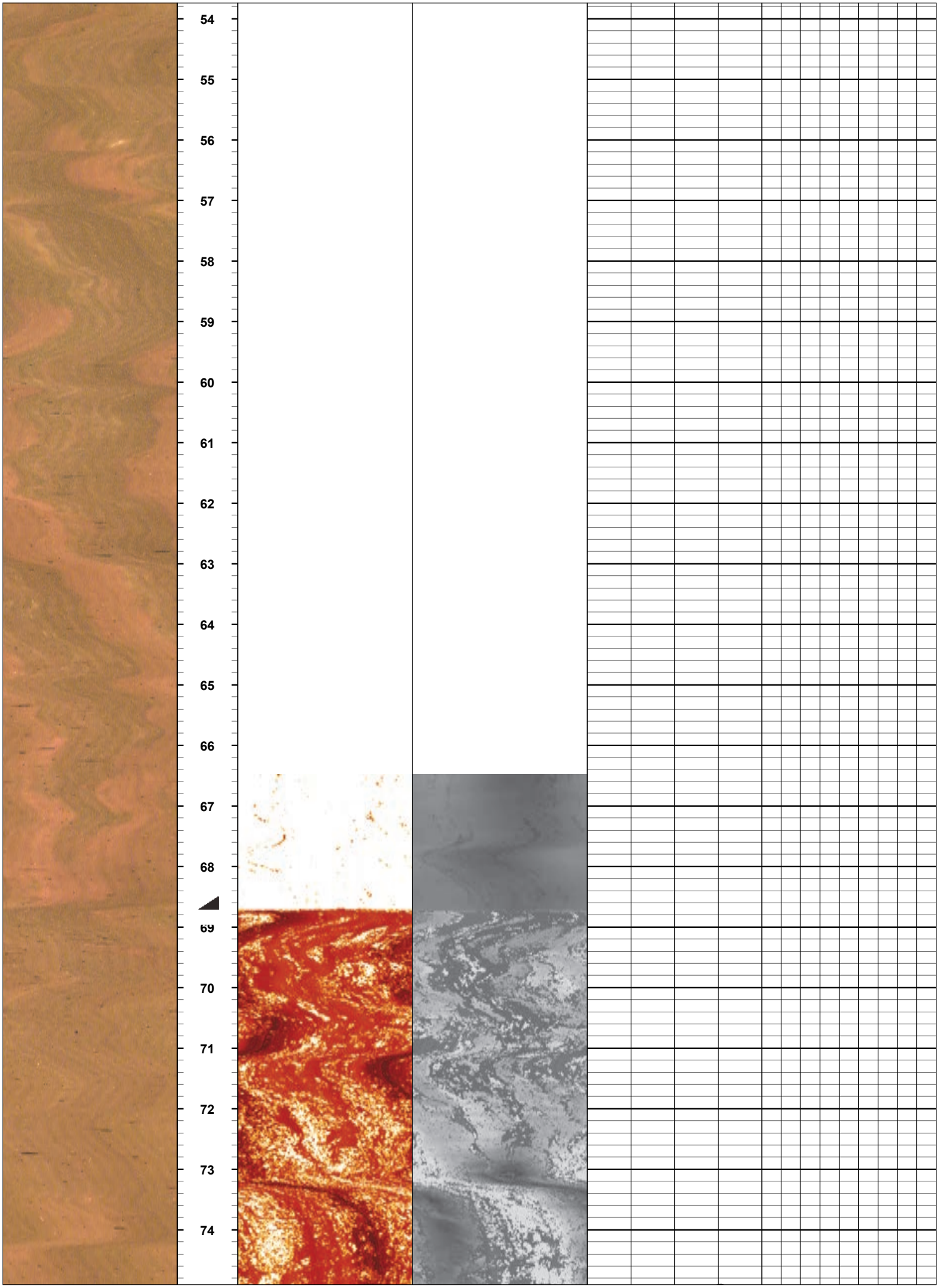
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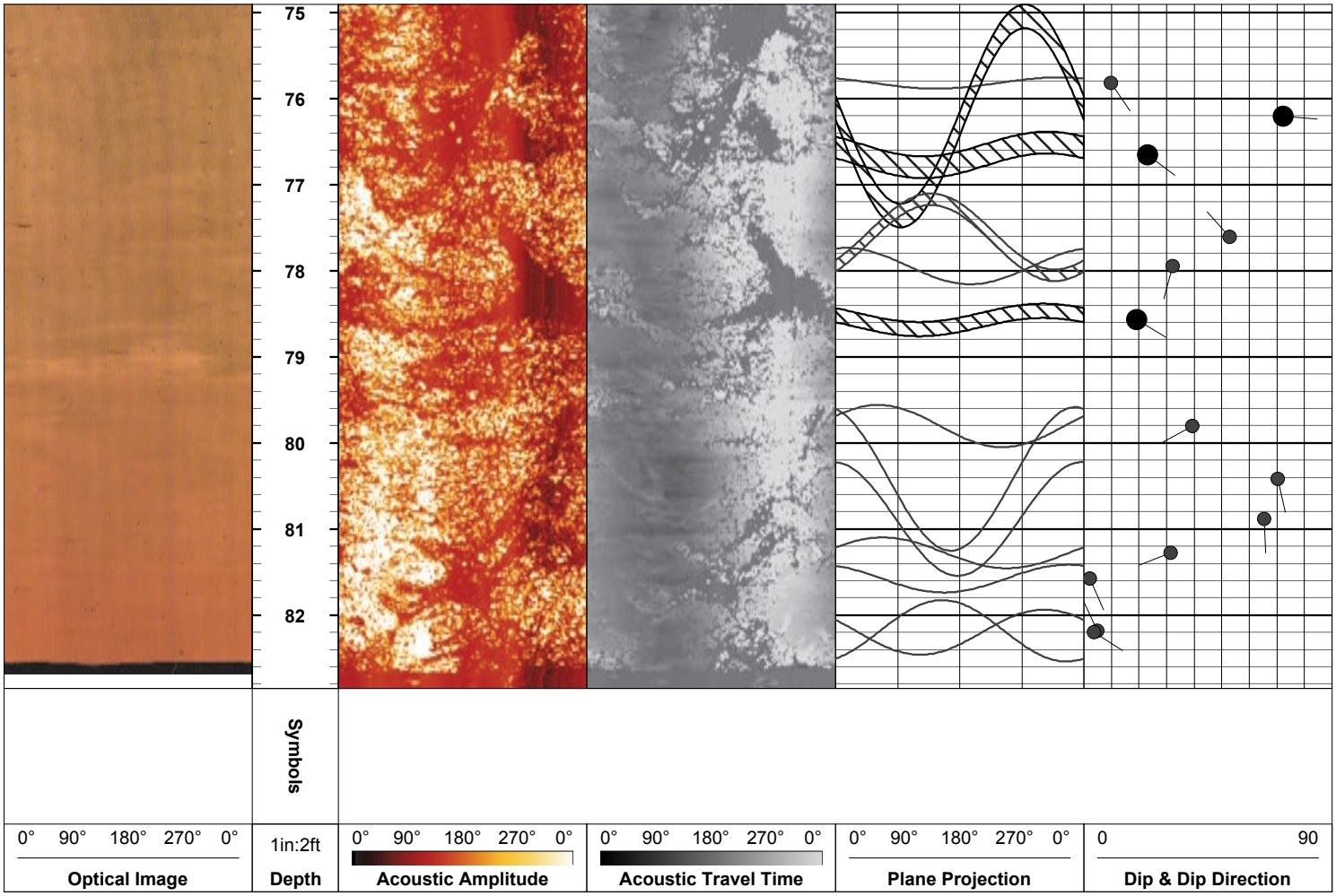
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Symbols
0° 90° 180° 270° 0°
Optical Image
1in:2ft
Depth
0° 90° 180° 270° 0°
Acoustic Amplitude
0° 90° 180° 270° 0°
Acoustic Travel Time
0° 90° 180° 270° 0°
Plane Projection
0 90
Dip & Dip Direction

ATTACHMENT C
TABULATED LISTING OF PLANE ORIENTATIONS

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-01A	94.28	142.51	34.19	0	Foliation	N53E/34SE
DW-01A	95.56	152.32	31.92	0	Part. Open Fract	N62E/32SE
DW-01A	96.56	136.65	37.23	0	Foliation	N47E/37SE
DW-01A	96.87	148.78	36.29	0	Foliation	N59E/36SE
DW-01A	99.69	144.67	37.22	0	Foliation	N55E/37SE
DW-01A	100.54	135.14	39.57	0	Part. Open Fract	N45E/40SE
DW-01A	102.37	146.88	35.66	0	Foliation	N57E/36SE
DW-01A	103.07	144.99	30.16	0	Foliation	N55E/30SE
DW-01A	103.33	142.09	33.61	0	Part. Open Fract	N52E/34SE
DW-01A	103.83	148.04	33.25	0	Foliation	N58E/33SE
DW-01A	105.75	154.64	32.32	0	Foliation	N65E/32SE
DW-01A	105.96	149.52	35.87	0	Foliation	N60E/36SE
DW-01A	106.23	152.07	24.72	0	Foliation	N62E/25SE
DW-01A	106.44	150.43	24.89	0	Foliation	N60E/25SE
DW-01A	106.64	152.72	27.92	0	Foliation	N63E/28SE
DW-01A	106.96	153.21	26.01	0	Foliation	N63E/26SE
DW-01A	107.61	158.94	32.93	0	Foliation	N69E/33SE
DW-01A	108.13	156.62	28.86	0	Foliation	N67E/29SE
DW-01A	108.31	147.88	31.58	0	Foliation	N58E/32SE
DW-01A	109.21	178.61	45.5	0	Foliation	N89E/46SE
DW-01A	109.48	171.45	53.79	0	Part. Open Fract	N81E/54SE
DW-01A	110.16	149.79	40.42	0	Foliation	N60E/40SE
DW-01A	110.44	151.99	43.73	0	Foliation	N62E/44SE
DW-01A	110.55	156.16	38.83	0	Foliation	N66E/39SE
DW-01A	110.75	147.61	31.41	0	Foliation	N58E/31SE
DW-01A	112.5	155.63	58.51	0	Foliation	N66E/59SE
DW-01A	112.72	133.99	49.82	0	Foliation	N44E/50SE
DW-01A	114.17	122.24	40.88	0	Foliation	N32E/41SE
DW-01A	114.7	116.25	47.54	0	Foliation	N26E/48SE
DW-01A	115.17	120.89	42.13	0	Foliation	N31E/42SE
DW-01A	115.44	115.42	42.69	0	Foliation	N25E/43SE
DW-01A	116.35	117.7	38.23	0	Foliation	N28E/38SE
DW-01A	117.12	149.05	47.2	0	Foliation	N59E/47SE
DW-01A	125.9	146.41	58.85	0	Part. Open Fract	N56E/59SE
DW-01A	126.72	342.05	55.88	0	Part. Open Fract	N72E/56NW
DW-01A	128.8	151.23	64.25	0	Part. Open Fract	N61E/64SE
DW-01A	137.3	170.19	67.02	0	Part. Open Fract	N80E/67SE
DW-01A	139.03	177.94	68.92	0	Part. Open Fract	N88E/69SE
DW-01A	141.46	153.39	46.68	0	Foliation	N63E/47SE
DW-01A	142.9	2.3	65.51	29.29	Open Fracture	N88W/66NE
DW-01A	147.75	165.47	29.86	0	Foliation	N75E/30SE
DW-01A	148.02	186.37	79.82	0	Part. Open Fract	N84W/80SW
DW-01A	149.66	127.13	45.35	0	Part. Open Fract	N37E/45SE
DW-01A	151.11	143.43	35.66	0	Foliation	N53E/36SE
DW-01A	151.41	154.44	34.96	0	Part. Open Fract	N64E/35SE
DW-01A	151.72	159.85	47.09	0	Foliation	N70E/47SE
DW-01A	152.53	129.53	72.12	0	Part. Open Fract	N40E/72SE
DW-01A	152.68	156.84	53.24	0	Part. Open Fract	N67E/53SE
DW-01A	154.86	172.7	48.29	0	Foliation	N83E/48SE
DW-01A	155.26	153.95	49.51	0	Foliation	N64E/50SE
DW-01A	156	133.45	54.33	0	Part. Open Fract	N43E/54SE
DW-01A	158.86	123.84	28.56	0	Part. Open Fract	N34E/29SE
DW-01A	159.77	148.97	37.54	0	Part. Open Fract	N59E/38SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-01A	160.01	161.09	50.2	0	Part. Open Fract	N71E/50SE
DW-01A	161.86	170.31	54.45	0	Part. Open Fract	N80E/54SE
DW-01A	174.81	144.88	52.44	0	Part. Open Fract	N55E/52SE
DW-01A	175.34	177.06	62.69	0	Part. Open Fract	N87E/63SE
DW-01A	178.18	170.03	63.03	0	Part. Open Fract	N80E/63SE
DW-01A	179.2	167.99	36.59	0	Part. Open Fract	N78E/37SE
DW-01A	179.7	163.83	72.73	0	Part. Open Fract	N74E/73SE
DW-01A	182.19	88.63	72.3	0	Part. Open Fract	N1W/72NE
DW-01A	184.26	197.63	74.31	0	Part. Open Fract	N72W/74SW
DW-01A	186.97	112.55	84.29	0	Part. Open Fract	N23E/84SE
DW-01A	187.08	199.66	48.59	0	Foliation	N70W/49SW
DW-01A	194.48	146.03	48.04	0	Part. Open Fract	N56E/48SE
DW-01A	195.54	162.57	42.28	0	Part. Open Fract	N73E/42SE
DW-01A	196.21	159	38.87	0	Part. Open Fract	N69E/39SE
DW-01A	197.86	209.8	55.56	0	Part. Open Fract	N60W/56SW
DW-01A	202.54	230.09	73.38	0	Part. Open Fract	N40W/73SW
DW-01A	207.17	239.56	62.89	0	Part. Open Fract	N30W/63SW
DW-01A	210.91	101.06	51.34	0	Part. Open Fract	N11E/51SE
DW-01A	213.94	114.97	42.49	0	Part. Open Fract	N25E/42SE
DW-01A	214.14	116.44	52.9	0	Part. Open Fract	N26E/53SE
DW-01A	216.09	198.5	47.38	0	Part. Open Fract	N72W/47SW
DW-01A	216.43	76.16	5.4	0	Part. Open Fract	N14W/5NE
DW-01A	220.33	220.15	41.28	0	Part. Open Fract	N50W/41SW
DW-01A	224.66	142.48	63.91	0	Part. Open Fract	N52E/64SE
DW-01A	227.16	208.34	39.94	0	Foliation	N62W/40SW
DW-01A	229.22	192.77	35.79	0	Foliation	N77W/36SW
DW-01A	229.52	189.14	38.17	0	Foliation	N81W/38SW
DW-01A	230.05	117.85	58.94	0	Part. Open Fract	N28E/59SE
DW-01A	234.93	145.54	41.53	0	Part. Open Fract	N56E/42SE
DW-01A	252.13	117.26	57.37	0	Part. Open Fract	N27E/57SE
DW-01A	255.3	137.24	63.48	0	Part. Open Fract	N47E/63SE
DW-01A	257.18	124.34	52.98	0	Part. Open Fract	N34E/53SE
DW-01A	257.77	139.33	55.29	0	Part. Open Fract	N49E/55SE
DW-01A	263.85	139.1	44.61	0	Foliation	N49E/45SE
DW-01A	264.39	122.42	49.24	0	Foliation	N32E/49SE
DW-01A	265.33	145.13	24.85	0	Foliation	N55E/25SE
DW-01A	266.03	139.01	37.31	0	Foliation	N49E/37SE
DW-01A	267.27	131.83	41.92	0	Foliation	N42E/42SE
DW-01A	268.02	129.41	46.85	0	Foliation	N39E/47SE
DW-01A	270.73	133.38	50.88	0	Foliation	N43E/51SE
DW-01A	270.8	290.69	56.7	0	Part. Open Fract	N21E/57NW
DW-01A	271.89	122.46	50.73	0	Foliation	N32E/51SE
DW-01A	272.33	124.37	55.97	0	Foliation	N34E/56SE
DW-01A	272.8	132.42	58.41	0	Foliation	N42E/58SE
DW-01A	273.52	134.72	61.18	0	Part. Open Fract	N45E/61SE
DW-01A	274.86	141.34	66.52	0	Foliation	N51E/67SE
DW-01A	275.7	130.44	65.13	0	Foliation	N40E/65SE
DW-01A	276.14	124.57	65.89	0	Foliation	N35E/66SE
DW-01A	278.86	95.97	61.65	0	Part. Open Fract	N6E/62SE
DW-01A	279.93	100.18	70.54	0	Part. Open Fract	N10E/71SE
DW-01A	282.04	122.39	35.18	0	Part. Open Fract	N32E/35SE
DW-01A	282.93	122.67	42.28	0	Part. Open Fract	N33E/42SE
DW-01A	286.43	138.73	32.22	0	Part. Open Fract	N49E/32SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	92.25	110.27	41.09	0	Foliation	N20E/41SE
DW-02A	93.36	105.73	43.17	0	Foliation	N16E/43SE
DW-02A	94.28	121.27	44.11	0	Foliation	N31E/44SE
DW-02A	95.16	137.59	44.64	0	Foliation	N48E/45SE
DW-02A	95.57	130.79	43.99	0	Foliation	N41E/44SE
DW-02A	97.44	122.06	48.9	0	Foliation	N32E/49SE
DW-02A	98.19	122.29	52.8	0	Foliation	N32E/53SE
DW-02A	98.98	122.09	44.81	0	Foliation	N32E/45SE
DW-02A	99.3	121.05	44.76	0	Foliation	N31E/45SE
DW-02A	99.95	122.09	43.1	0	Foliation	N32E/43SE
DW-02A	103.05	99.14	42.88	0	Foliation	N9E/43SE
DW-02A	103.69	114.35	42.01	0	Foliation	N24E/42SE
DW-02A	106.77	119.81	69.79	15.44	Filled Fracture	N30E/70SE
DW-02A	108.18	97.41	77.55	0	Filled Fracture	N7E/78SE
DW-02A	109.43	3.18	85.1	0	Part. Open Fract	N87W/85NE
DW-02A	109.89	99.18	67.08	0	Filled Fracture	N9E/67SE
DW-02A	110.01	358.25	85.63	0	Part. Open Fract	N88E/86NW
DW-02A	110.77	96.31	66.72	0	Filled Fracture	N6E/67SE
DW-02A	113.33	117.6	43.18	0	Foliation	N28E/43SE
DW-02A	113.95	127.46	42.79	0	Foliation	N37E/43SE
DW-02A	114.78	144.84	43.69	0	Foliation	N55E/44SE
DW-02A	115.54	125.72	45.02	0	Part. Open Fract	N36E/45SE
DW-02A	118.19	139.12	38.76	0	Foliation	N49E/39SE
DW-02A	120.93	97.52	79.52	0	Part. Open Fract	N8E/80SE
DW-02A	121.01	212.16	78	0	Part. Open Fract	N58W/78SW
DW-02A	121.15	144.03	62.04	0	Part. Open Fract	N54E/62SE
DW-02A	121.9	141.09	62.88	0	Part. Open Fract	N51E/63SE
DW-02A	122.51	150.58	34.8	0	Part. Open Fract	N61E/35SE
DW-02A	123.99	94.58	74.96	0	Filled Fracture	N5E/75SE
DW-02A	125.46	99.48	79.76	0	Filled Fracture	N9E/80SE
DW-02A	126.25	141.77	38.85	0	Foliation	N52E/39SE
DW-02A	126.51	109.2	78.49	0	Filled Fracture	N19E/78SE
DW-02A	127.88	115.1	37.31	0	Foliation	N25E/37SE
DW-02A	130.11	116.44	44.4	0	Foliation	N26E/44SE
DW-02A	130.45	127.14	46.4	0	Foliation	N37E/46SE
DW-02A	131.26	136.5	45.97	0	Foliation	N47E/46SE
DW-02A	131.75	127.92	45.31	0	Foliation	N38E/45SE
DW-02A	132.08	120.21	44.24	0	Foliation	N30E/44SE
DW-02A	132.67	122.01	43.7	0	Foliation	N32E/44SE
DW-02A	133.38	121.85	49.65	0	Part. Open Fract	N32E/50SE
DW-02A	134.19	144.67	50.78	0	Foliation	N55E/51SE
DW-02A	134.86	134.1	53.23	0	Foliation	N44E/53SE
DW-02A	135.41	129.27	47.17	0	Foliation	N39E/47SE
DW-02A	136.23	121.3	46.12	0	Foliation	N31E/46SE
DW-02A	136.56	110.82	44.5	0	Foliation	N21E/45SE
DW-02A	138.11	117.61	49.05	0	Foliation	N28E/49SE
DW-02A	138.71	129.03	46.49	0	Foliation	N39E/46SE
DW-02A	140.6	211.12	76.46	0	Part. Open Fract	N59W/76SW
DW-02A	142.21	116.51	44.38	0	Part. Open Fract	N27E/44SE
DW-02A	143.09	169.34	65.92	0	Part. Open Fract	N79E/66SE
DW-02A	144.08	108.02	47.09	0	Foliation	N18E/47SE
DW-02A	144.33	112.8	51.86	0	Foliation	N23E/52SE
DW-02A	145.06	108.39	51.9	0	Foliation	N18E/52SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	145.55	126.82	43.58	0	Foliation	N37E/44SE
DW-02A	146.31	127.19	47.96	0	Foliation	N37E/48SE
DW-02A	147.62	116.94	51.49	0	Part. Open Fract	N27E/51SE
DW-02A	148.03	122.53	47.21	0	Foliation	N33E/47SE
DW-02A	148.54	127.47	49.79	0	Foliation	N37E/50SE
DW-02A	148.99	153.64	57.53	0	Part. Open Fract	N64E/58SE
DW-02A	151.15	192.75	64.25	0	Part. Open Fract	N77W/64SW
DW-02A	152.09	176.28	62.63	0	Part. Open Fract	N86E/63SE
DW-02A	152.64	163.7	68.83	0	Part. Open Fract	N74E/69SE
DW-02A	153.47	89.72	56.82	0	Part. Open Fract	N0W/57NE
DW-02A	153.54	201.45	56.93	0	Part. Open Fract	N69W/57SW
DW-02A	154.67	198.47	50	0	Part. Open Fract	N72W/50SW
DW-02A	155.99	121.4	41.52	0	Part. Open Fract	N31E/42SE
DW-02A	158.29	135.8	42.75	0	Foliation	N46E/43SE
DW-02A	161.72	129.29	39.55	0	Foliation	N39E/40SE
DW-02A	162.39	122.93	45.94	0	Foliation	N33E/46SE
DW-02A	162.76	137.88	43.47	0	Foliation	N48E/43SE
DW-02A	163.18	102	60.31	0	Part. Open Fract	N12E/60SE
DW-02A	163.58	100.09	62.12	0	Part. Open Fract	N10E/62SE
DW-02A	164.76	12.05	67.19	0	Part. Open Fract	N78W/67NE
DW-02A	165.44	127.9	45.11	0	Foliation	N38E/45SE
DW-02A	166.12	138.25	41.09	0	Foliation	N48E/41SE
DW-02A	166.61	139.35	40.04	0	Foliation	N49E/40SE
DW-02A	167.91	122.07	36.84	0	Part. Open Fract	N32E/37SE
DW-02A	169.25	172.79	76.71	0	Part. Open Fract	N83E/77SE
DW-02A	172.55	127.63	41.62	0	Foliation	N38E/42SE
DW-02A	173.3	131.05	41.36	0	Foliation	N41E/41SE
DW-02A	173.73	119.82	46.68	0	Foliation	N30E/47SE
DW-02A	174.64	121.98	48	0	Foliation	N32E/48SE
DW-02A	175.2	88.57	56.68	0	Part. Open Fract	N1W/57NE
DW-02A	176.15	83.4	66.65	0	Part. Open Fract	N7W/67NE
DW-02A	176.96	104.74	68.27	0	Part. Open Fract	N15E/68SE
DW-02A	179.3	123.86	43.48	0	Foliation	N34E/43SE
DW-02A	180.02	198.83	54.04	0	Filled Fracture	N71W/54SW
DW-02A	180.98	196.7	58.12	0	Filled Fracture	N73W/58SW
DW-02A	182.1	131.73	43.77	0	Foliation	N42E/44SE
DW-02A	182.91	210.92	57.02	0	Filled Fracture	N59W/57SW
DW-02A	183.67	167.58	54.15	0	Filled Fracture	N78E/54SE
DW-02A	184.19	193.54	54.12	0	Filled Fracture	N76W/54SW
DW-02A	186.56	179.02	60.46	0	Filled Fracture	N89E/60SE
DW-02A	188.28	148.45	82.21	0	Part. Open Fract	N58E/82SE
DW-02A	190.29	172.83	59.12	0	Filled Fracture	N83E/59SE
DW-02A	190.88	129.08	40.61	0	Foliation	N39E/41SE
DW-02A	191.67	125.1	38.04	0	Foliation	N35E/38SE
DW-02A	193.64	100.25	67.97	0	Part. Open Fract	N10E/68SE
DW-02A	195.21	138.59	38.33	0	Foliation	N49E/38SE
DW-02A	197.18	151.05	34.36	0	Foliation	N61E/34SE
DW-02A	197.43	141.24	38.39	0	Foliation	N51E/38SE
DW-02A	197.78	145	40.54	0	Foliation	N55E/41SE
DW-02A	198.27	134.45	40.39	0	Part. Open Fract	N44E/40SE
DW-02A	198.95	147.17	35.31	0	Foliation	N57E/35SE
DW-02A	199.56	151.23	38.19	0	Foliation	N61E/38SE
DW-02A	200.38	154.16	42.29	0	Foliation	N64E/42SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	200.95	142.57	35.31	0	Foliation	N53E/35SE
DW-02A	201.27	141.13	47.05	0	Foliation	N51E/47SE
DW-02A	202.21	145.67	42.68	0	Foliation	N56E/43SE
DW-02A	202.69	145.69	41.48	0	Foliation	N56E/41SE
DW-02A	203	134.8	41.74	0	Foliation	N45E/42SE
DW-02A	203.25	138.44	41.01	0	Foliation	N48E/41SE
DW-02A	203.77	138.53	43.13	0	Foliation	N49E/43SE
DW-02A	203.98	141.09	39.91	0	Foliation	N51E/40SE
DW-02A	204.31	141.32	42.65	0	Foliation	N51E/43SE
DW-02A	204.54	127.55	41.03	0	Foliation	N38E/41SE
DW-02A	205.51	134.23	44.72	0	Part. Open Fract	N44E/45SE
DW-02A	205.64	93.02	64.46	0	Filled Fracture	N3E/64SE
DW-02A	208.58	338.37	17.8	0	Part. Open Fract	N68E/18NW
DW-02A	209.96	139.14	41.99	0	Foliation	N49E/42SE
DW-02A	211.88	120.43	49.1	0	Part. Open Fract	N30E/49SE
DW-02A	214.83	131.6	42.47	0	Foliation	N42E/42SE
DW-02A	215.36	133.14	37.65	0	Foliation	N43E/38SE
DW-02A	215.74	134.24	40.37	0	Foliation	N44E/40SE
DW-02A	216.29	142.75	40.96	0	Foliation	N53E/41SE
DW-02A	216.54	139.03	41.35	0	Foliation	N49E/41SE
DW-02A	217.68	125.6	55.47	0	Filled Fracture	N36E/55SE
DW-02A	218.68	180.12	66.98	0	Part. Open Fract	N90W/67SW
DW-02A	219.75	178.06	62.24	0	Part. Open Fract	N88E/62SE
DW-02A	220.49	128.27	37.44	0	Foliation	N38E/37SE
DW-02A	220.88	117.18	36.18	0	Foliation	N27E/36SE
DW-02A	221.39	133.91	40.94	0	Foliation	N44E/41SE
DW-02A	221.64	113.96	48.96	0	Filled Fracture	N24E/49SE
DW-02A	221.91	122.69	40.01	0	Foliation	N33E/40SE
DW-02A	222.33	130.2	38.25	0	Part. Open Fract	N40E/38SE
DW-02A	223.7	138.75	38.08	0	Foliation	N49E/38SE
DW-02A	226.89	104.05	55.75	0	Filled Fracture	N14E/56SE
DW-02A	227.41	137.33	33.98	0	Foliation	N47E/34SE
DW-02A	228.23	132.56	39.08	0	Foliation	N43E/39SE
DW-02A	228.55	141.43	36.49	0	Foliation	N51E/36SE
DW-02A	230.14	127.79	33.96	0	Foliation	N38E/34SE
DW-02A	230.79	128.53	30.6	0	Foliation	N39E/31SE
DW-02A	231.18	137.75	71.8	0	Part. Open Fract	N48E/72SE
DW-02A	232.02	93.55	44.8	0	Foliation	N4E/45SE
DW-02A	232.96	99.41	36.7	0	Foliation	N9E/37SE
DW-02A	233.39	90.75	41.35	0	Foliation	N1E/41SE
DW-02A	233.7	105.9	46.37	0	Foliation	N16E/46SE
DW-02A	236.86	69.28	47.35	11.78	Open Fracture	N21W/47NE
DW-02A	237.75	86.42	46.57	0	Foliation	N4W/47NE
DW-02A	238.19	97.27	46.31	0	Foliation	N7E/46SE
DW-02A	238.79	80.73	36.83	0	Foliation	N9W/37NE
DW-02A	239.94	133.81	39.4	0	Foliation	N44E/39SE
DW-02A	240.12	134.4	33.17	0	Foliation	N44E/33SE
DW-02A	240.4	241.37	67.72	0	Part. Open Fract	N29W/68SW
DW-02A	240.92	133.11	33.93	0	Foliation	N43E/34SE
DW-02A	241.22	137.32	40.63	0	Foliation	N47E/41SE
DW-02A	241.37	89.35	63.9	0	Part. Open Fract	N1W/64NE
DW-02A	242.06	132.73	39.03	0	Foliation	N43E/39SE
DW-02A	242.55	130.92	32.64	0	Foliation	N41E/33SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-02A	243.27	130.9	38.74	0	Foliation	N41E/39SE
DW-02A	243.73	126.39	40.4	0	Foliation	N36E/40SE
DW-02A	243.91	137.29	40.36	0	Foliation	N47E/40SE
DW-02A	244.2	132.68	37.83	0	Foliation	N43E/38SE
DW-02A	244.81	125.27	38.09	0	Foliation	N35E/38SE
DW-02A	245.11	122.46	40.81	0	Foliation	N32E/41SE
DW-02A	245.56	294.79	54.84	15.02	Open Fracture	N25E/55NW
DW-02A	247.96	131.61	36.19	0	Foliation	N42E/36SE
DW-02A	248.68	111.04	35.55	0	Foliation	N21E/36SE
DW-02A	250.24	223.26	63.93	4.2	Open Fracture	N47W/64SW
DW-02A	251.79	201.99	67.85	0	Part. Open Fract	N68W/68SW
DW-02A	255.4	110.52	44.41	27.06	Open Fracture	N21E/44SE
DW-02A	256.15	74.98	32.48	0	Filled Fracture	N15W/32NE
DW-02A	258.05	225.16	18.09	0	Filled Fracture	N45W/18SW
DW-02A	258.41	123.61	34.4	0	Foliation	N34E/34SE
DW-03A	101.14	83.72	40.13	0	Foliation	N6W/40NE
DW-03A	102.36	60.15	36.27	0	Foliation	N30W/36NE
DW-03A	103.38	56.18	36.57	0	Foliation	N34W/37NE
DW-03A	104.05	37.64	40.14	0	Foliation	N52W/40NE
DW-03A	105.78	149.14	33.95	0	Foliation	N59E/34SE
DW-03A	107	152.96	41.93	0	Foliation	N63E/42SE
DW-03A	107.54	163.9	39.83	0	Foliation	N74E/40SE
DW-03A	107.79	172.54	47.55	0	Open Fracture	N83E/48SE
DW-03A	108.65	163.37	34.57	0	Foliation	N73E/35SE
DW-03A	110.13	170.98	63.32	0	Part. Open Fract	N81E/63SE
DW-03A	112.05	178.02	36.18	0	Foliation	N88E/36SE
DW-03A	112.82	175.46	31.13	0	Foliation	N85E/31SE
DW-03A	112.97	176.7	22.41	0	Filled Fracture	N87E/22SE
DW-03A	113.48	215.04	36.66	0	Filled Fracture	N55W/37SW
DW-03A	115.24	152.61	70.34	0	Part. Open Fract	N63E/70SE
DW-03A	116.15	168.08	60.69	0	Part. Open Fract	N78E/61SE
DW-03A	116.97	180.31	32.74	0	Part. Open Fract	N90W/33SW
DW-03A	117.18	172.11	47.42	0	Part. Open Fract	N82E/47SE
DW-03A	118.86	171.65	70.72	0	Part. Open Fract	N82E/71SE
DW-03A	119.81	176.53	51.12	0	Part. Open Fract	N87E/51SE
DW-03A	122.09	174.6	55.77	0	Part. Open Fract	N85E/56SE
DW-03A	129.85	304.16	61.29	0	Part. Open Fract	N34E/61NW
DW-03A	130.46	313.25	63.63	0	Part. Open Fract	N43E/64NW
DW-03A	132.16	117.96	31.76	0	Part. Open Fract	N28E/32SE
DW-03A	135.98	353.35	66.23	0	Part. Open Fract	N83E/66NW
DW-03A	138.13	333.04	47.88	9.55	Open Fracture	N63E/48NW
DW-03A	138.98	176.85	19.76	0	Foliation	N87E/20SE
DW-03A	139.18	163.46	22.19	0	Foliation	N73E/22SE
DW-03A	139.75	163.76	25.96	0	Foliation	N74E/26SE
DW-03A	140	164.95	19.71	0	Foliation	N75E/20SE
DW-03A	140.42	174.8	33.16	0	Part. Open Fract	N85E/33SE
DW-03A	142.65	165.98	37.23	0	Foliation	N76E/37SE
DW-03A	150.43	154.75	17.96	0	Part. Open Fract	N65E/18SE
DW-03A	151.93	195.09	43.32	0	Part. Open Fract	N75W/43SW
DW-03A	169.18	206.43	38.99	0	Foliation	N64W/39SW
DW-03A	169.54	218.06	37.8	0	Foliation	N52W/38SW
DW-03A	169.92	204.5	36.56	0	Foliation	N66W/37SW
DW-03A	172.77	179.08	49.98	0	Foliation	N89E/50SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-03A	173.41	172.41	52.16	0	Foliation	N82E/52SE
DW-03A	174.77	157.84	56.07	0	Foliation	N68E/56SE
DW-03A	176.55	184.48	54.16	0	Part. Open Fract	N86W/54SW
DW-03A	177.19	170.18	42.92	0	Part. Open Fract	N80E/43SE
DW-03A	177.89	244.92	21.31	0	Foliation	N25W/21SW
DW-03A	178.27	277.78	23.96	0	Part. Open Fract	N8E/24NW
DW-03A	178.81	136.44	47.22	0	Foliation	N46E/47SE
DW-03A	179.27	140	47.61	0	Foliation	N50E/48SE
DW-03A	180.26	117.74	35.66	0	Foliation	N28E/36SE
DW-03A	180.88	126.98	38.71	0	Foliation	N37E/39SE
DW-03A	181.15	136.64	36.54	0	Foliation	N47E/37SE
DW-03A	181.43	114.87	36.78	0	Foliation	N25E/37SE
DW-03A	182.33	110.95	45.58	0	Foliation	N21E/46SE
DW-03A	184.03	121.14	40.12	0	Part. Open Fract	N31E/40SE
DW-03A	184.3	122.79	40.48	0	Part. Open Fract	N33E/40SE
DW-03A	184.41	122.55	43.22	0	Foliation	N33E/43SE
DW-03A	184.83	119.06	41.24	0	Foliation	N29E/41SE
DW-03A	185.56	157.49	49.97	0	Part. Open Fract	N67E/50SE
DW-03A	186.04	319.32	24.08	0	Part. Open Fract	N49E/24NW
DW-03A	186.72	115.8	46.1	0	Part. Open Fract	N26E/46SE
DW-03A	188.04	149.69	76.15	0	Part. Open Fract	N60E/76SE
DW-03A	189.64	204.2	55.42	0	Part. Open Fract	N66W/55SW
DW-03A	190.38	289.15	8.3	0	Part. Open Fract	N19E/8NW
DW-03A	190.98	131.88	47.78	0	Foliation	N42E/48SE
DW-03A	191.43	114.95	47.85	0	Foliation	N25E/48SE
DW-03A	191.79	150.51	6.53	0	Foliation	N61E/7SE
DW-04A	95.41	208.82	52.04	0	Part. Open Fract	N61W/52SW
DW-04A	102.98	154.23	42.16	0	Foliation	N64E/42SE
DW-04A	103.32	164.9	41.28	0	Foliation	N75E/41SE
DW-04A	103.65	162.68	41.13	0	Foliation	N73E/41SE
DW-04A	103.94	159.07	38.26	0	Foliation	N69E/38SE
DW-04A	104.1	158.28	41.09	0	Foliation	N68E/41SE
DW-04A	104.9	162.78	38.23	0	Foliation	N73E/38SE
DW-04A	105.48	248.08	48.16	0	Part. Open Fract	N22W/48SW
DW-04A	106.28	164.63	41.05	0	Foliation	N75E/41SE
DW-04A	107.17	146.42	37	0	Foliation	N56E/37SE
DW-04A	110.14	140.45	48.46	0	Foliation	N50E/48SE
DW-04A	111.53	149.24	56.16	0	Foliation	N59E/56SE
DW-04A	112.29	165.98	48.28	0	Foliation	N76E/48SE
DW-04A	112.68	162.3	47.08	0	Foliation	N72E/47SE
DW-04A	112.92	296.01	72.51	0	Part. Open Fract	N26E/73NW
DW-04A	113.61	192.87	43.2	0	Foliation	N77W/43SW
DW-04A	114.81	240.91	73.61	0	Part. Open Fract	N29W/74SW
DW-04A	117.5	168.86	63.28	0	Part. Open Fract	N79E/63SE
DW-04A	120.92	183.78	55.36	0	Foliation	N86W/55SW
DW-04A	123.02	161.41	51.72	0	Foliation	N71E/52SE
DW-04A	123.39	188.85	78.21	0	Part. Open Fract	N81W/78SW
DW-04A	123.48	147.16	48.26	0	Foliation	N57E/48SE
DW-04A	126.45	153.66	38.93	0	Foliation	N64E/39SE
DW-04A	126.93	158.61	42.37	0	Foliation	N69E/42SE
DW-04A	127.31	152.58	29.21	0	Foliation	N63E/29SE
DW-04A	127.59	196.61	62.58	0	Part. Open Fract	N73W/63SW
DW-04A	128.17	142.01	37.36	0	Foliation	N52E/37SE

Planar Orientations

Well ID	Depth (feet)	Dip Dir. (deg)	Dip (deg)	Aperture (mm)	Type	Strike/Dip (Quadrant)
DW-04A	130.19	108.06	52.26	0	Part. Open Fract	N18E/52SE
DW-04A	130.58	147.47	45.82	0	Foliation	N57E/46SE
DW-04A	131.33	135.74	43.68	0	Foliation	N46E/44SE
DW-04A	133.75	113.93	39.61	0	Part. Open Fract	N24E/40SE
DW-04A	133.94	100.58	54.81	0	Part. Open Fract	N11E/55SE
DW-04A	134.44	116	53.37	0	Part. Open Fract	N26E/53SE
DW-04A	134.71	91.82	55.67	0	Part. Open Fract	N2E/56SE
DW-04A	135.43	106.31	78.11	0	Part. Open Fract	N16E/78SE
DW-04A	136.78	134.16	45.17	0	Foliation	N44E/45SE
DW-04A	136.94	134.05	47.41	0	Foliation	N44E/47SE
DW-04A	138.28	128.13	51.78	0	Foliation	N38E/52SE
DW-04A	138.78	110.81	53.67	0	Foliation	N21E/54SE
DW-04A	139.57	157.22	72.11	0	Part. Open Fract	N67E/72SE
DW-04A	139.61	269.43	67.66	0	Part. Open Fract	N1W/68SW
DW-04A	139.71	215.56	39.24	0	Part. Open Fract	N54W/39SW
DW-04A	140.25	201.7	50.06	0	Foliation	N68W/50SW
DW-04A	140.8	201.2	47.67	0	Foliation	N69W/48SW
DW-04A	141.86	214.16	42.17	0	Foliation	N56W/42SW
DW-04A	142.37	154.23	40.11	0	Foliation	N64E/40SE
DW-04A	142.83	146.84	41.09	0	Foliation	N57E/41SE
DW-04A	143.6	136.49	41.36	0	Foliation	N46E/41SE
DW-04A	145.36	119.69	34.13	0	Foliation	N30E/34SE
DW-04A	146.63	216.11	72.67	0	Part. Open Fract	N54W/73SW
DW-04A	149.47	148.86	31.37	0	Foliation	N59E/31SE
DW-04A	149.8	145.15	31.67	0	Foliation	N55E/32SE
DW-04A	150.54	148.67	39.46	0	Foliation	N59E/39SE
DW-04A	151.29	125.84	25.36	0	Foliation	N36E/25SE
DW-04A	152.08	131.18	27.61	0	Foliation	N41E/28SE
DW-04A	153.83	171.44	17.63	0	Foliation	N81E/18SE
DW-04A	154.22	177.48	18.37	0	Foliation	N87E/18SE
DW-04A	158.81	159.62	59.39	0	Part. Open Fract	N70E/59SE
DW-04A	161.48	91.22	55.21	0	Part. Open Fract	N1E/55SE
DW-04A	162.2	114.99	53.55	0	Part. Open Fract	N25E/54SE
DW-04A	162.65	103.46	55.3	0	Part. Open Fract	N13E/55SE
DW-04B	75.82	145.64	9.88	0	Part. Open Fract	N56E/10SE
DW-04B	76.2	94.49	72.4	10.1	Broken/Void/Soft Zone	N4E/72SE
DW-04B	76.65	126.85	23.08	27.85	Broken/Void/Soft Zone	N37E/23SE
DW-04B	77.61	318.28	52.9	9.69	Part. Open Fract	N48E/53NW
DW-04B	77.95	195.5	32.16	0	Part. Open Fract	N75W/32SW
DW-04B	78.57	121.26	19.09	18.75	Broken/Void/Soft Zone	N31E/19SE
DW-04B	79.8	241.71	39.35	0	Part. Open Fract	N28W/39SW
DW-04B	80.42	167.19	70.4	0	Part. Open Fract	N77E/70SE
DW-04B	80.88	177.32	65.43	0	Part. Open Fract	N87E/65SE
DW-04B	81.28	248.42	31.49	0	Part. Open Fract	N22W/31SW
DW-04B	81.57	156.94	2.22	0	Part. Open Fract	N67E/2SE
DW-04B	82.19	334.53	4.88	0	Part. Open Fract	N65E/5NW
DW-04B	82.2	122.68	3.6	0	Part. Open Fract	N33E/4SE

APPENDIX D

Laboratory Data

Laboratory Test Results
Chain of Custody Documentation

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Wednesday, October 11, 2017

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY - CSVI

Work Order #: 17093067

Dear Mr. Trev Greene:

REI Consultants, Inc. received 65 sample(s) on 9/22/2017 for the analyses presented in the following report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

REI Consultants, Inc. - Case Narrative

WO#: 17093067

Date Reported: 10/11/2017
Original

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY - CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

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DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 10:38:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-01A	**Matrix:**	Soil
Client Sample ID:	B16-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	16	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	1,700	1,250	2,500	NA	J	µg/Kg	09/25/17 11:26AM	09/26/17 11:56AM	PA/VA
Surr: 2,5-Dibromotoluene	131	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/26/17 11:56AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
Ethylbenzene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
m,p-Xylene	ND	3.88	7.76	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
Methyl tert-butyl ether	ND	9.70	19.4	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
Naphthalene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
o-Xylene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
Toluene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
Surr: 1,2-Dichloroethane-d4	94.6	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/29/17 9:08PM	
Surr: 4-Bromofluorobenzene	97.6	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/29/17 9:08PM	
Surr: Dibromofluoromethane	97.3	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/29/17 9:08PM	
Surr: Toluene-d8	87.3	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/29/17 9:08PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 10:50:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-02A	**Matrix:**	Soil
Client Sample ID:	B16-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	23	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,250	2,500	NA	µg/Kg	09/25/17 11:26AM	09/26/17 12:30PM	PA/VA
Surr: 2,5-Dibromotoluene	117	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/26/17 12:30PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA	µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA	µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
Naphthalene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
o-Xylene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
Toluene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.4	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/29/17 9:41PM	
Surr: 4-Bromofluorobenzene	96.4	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/29/17 9:41PM	
Surr: Dibromofluoromethane	98.2	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/29/17 9:41PM	
Surr: Toluene-d8	88.2	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/29/17 9:41PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 12:14:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-03A	**Matrix:**	Soil
Client Sample ID:	B17-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	10	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,200	2,400	NA	µg/Kg	09/25/17 11:26AM	09/26/17 1:03PM	PA/VA
Surr: 2,5-Dibromotoluene	119	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/26/17 1:03PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:14PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:14PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:14PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:14PM	PA/VA
Naphthalene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:14PM	PA/VA
o-Xylene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:14PM	PA/VA
Toluene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:14PM	PA/VA
Surr: 1,2-Dichloroethane-d4	110	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/29/17 10:14PM	
Surr: 4-Bromofluorobenzene	107	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/29/17 10:14PM	
Surr: Dibromofluoromethane	104	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/29/17 10:14PM	
Surr: Toluene-d8	84.8	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/29/17 10:14PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 12:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-04A	**Matrix:**	Soil
Client Sample ID:	B17-4	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	13	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,250	2,500	NA	µg/Kg	09/25/17 11:26AM	09/26/17 1:37PM	PA/VA
Surr: 2,5-Dibromotoluene	111	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/26/17 1:37PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:47PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:47PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:47PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:47PM	PA/VA
Naphthalene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:47PM	PA/VA
o-Xylene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:47PM	PA/VA
Toluene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 10:47PM	PA/VA
Surr: 1,2-Dichloroethane-d4	105	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/29/17 10:47PM	
Surr: 4-Bromofluorobenzene	116	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/29/17 10:47PM	
Surr: Dibromofluoromethane	98.0	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/29/17 10:47PM	
Surr: Toluene-d8	97.0	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/29/17 10:47PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 12:25:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-05A	**Matrix:**	Soil
Client Sample ID:	B17-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	10	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,250	2,500	NA	µg/Kg	09/25/17 11:26AM	09/26/17 2:11PM	PA/VA
Surr: 2,5-Dibromotoluene	106	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/26/17 2:11PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:20PM	PA/VA
Ethylbenzene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:20PM	PA/VA
m,p-Xylene	ND	3.88	7.76	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:20PM	PA/VA
Methyl tert-butyl ether	ND	9.70	19.4	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:20PM	PA/VA
Naphthalene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:20PM	PA/VA
o-Xylene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:20PM	PA/VA
Toluene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:20PM	PA/VA
Surr: 1,2-Dichloroethane-d4	100	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/29/17 11:20PM	
Surr: 4-Bromofluorobenzene	90.4	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/29/17 11:20PM	
Surr: Dibromofluoromethane	102	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/29/17 11:20PM	
Surr: Toluene-d8	86.4	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/29/17 11:20PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 1:00:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-06A	**Matrix:**	Soil
Client Sample ID:	B17-7	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	15	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,220	2,450	NA	µg/Kg	09/25/17 11:26AM	09/26/17 10:34PM	PA/VA
Surr: 2,5-Dibromotoluene	106	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/26/17 10:34PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:53PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:53PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:53PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:53PM	PA/VA
Naphthalene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:53PM	PA/VA
o-Xylene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:53PM	PA/VA
Toluene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/29/17 11:53PM	PA/VA
Surr: 1,2-Dichloroethane-d4	106	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/29/17 11:53PM	
Surr: 4-Bromofluorobenzene	98.3	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/29/17 11:53PM	
Surr: Dibromofluoromethane	99.2	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/29/17 11:53PM	
Surr: Toluene-d8	75.1	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/29/17 11:53PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 1:06:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-07A	**Matrix:**	Soil
Client Sample ID:	B17-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	19	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,220	2,450	NA		µg/Kg	09/25/17 11:26AM	09/26/17 11:08PM	PA/VA
Surr: 2,5-Dibromotoluene	118	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/26/17 11:08PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 12:26AM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 12:26AM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 12:26AM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	09/30/17 12:26AM	PA/VA
Naphthalene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 12:26AM	PA/VA
o-Xylene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 12:26AM	PA/VA
Toluene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 12:26AM	PA/VA
Surr: 1,2-Dichloroethane-d4	106	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/30/17 12:26AM	
Surr: 4-Bromofluorobenzene	97.5	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/30/17 12:26AM	
Surr: Dibromofluoromethane	111	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/30/17 12:26AM	
Surr: Toluene-d8	67.4	NA	71.2-133	NA	S	%Rec	09/25/17 11:26AM	09/30/17 12:26AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 1:13:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-08A	**Matrix:**	Soil
Client Sample ID:	B17-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	36	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,180	2,350	NA	µg/Kg	09/25/17 11:26AM	09/26/17 11:41PM	PA/VA
Surr: 2,5-Dibromotoluene	117	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/26/17 11:41PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 12:59AM	PA/VA
Ethylbenzene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 12:59AM	PA/VA
m,p-Xylene	ND	3.92	7.84	NA	µg/Kg	09/25/17 11:26AM	09/30/17 12:59AM	PA/VA
Methyl tert-butyl ether	ND	9.80	19.6	NA	µg/Kg	09/25/17 11:26AM	09/30/17 12:59AM	PA/VA
Naphthalene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 12:59AM	PA/VA
o-Xylene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 12:59AM	PA/VA
Toluene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 12:59AM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.9	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/30/17 12:59AM	
Surr: 4-Bromofluorobenzene	84.5	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/30/17 12:59AM	
Surr: Dibromofluoromethane	98.9	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/30/17 12:59AM	
Surr: Toluene-d8	86.2	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/30/17 12:59AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 1:21:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-09A	**Matrix:**	Soil
Client Sample ID:	B17-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	15	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,220	2,450	NA	µg/Kg	09/25/17 11:26AM	09/27/17 9:41AM	PA/VA
Surr: 2,5-Dibromotoluene	124	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/27/17 9:41AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/30/17 1:32AM	PA/VA
Ethylbenzene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/30/17 1:32AM	PA/VA
m,p-Xylene	ND	3.88	7.76	NA	µg/Kg	09/25/17 11:26AM	09/30/17 1:32AM	PA/VA
Methyl tert-butyl ether	ND	9.70	19.4	NA	µg/Kg	09/25/17 11:26AM	09/30/17 1:32AM	PA/VA
Naphthalene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/30/17 1:32AM	PA/VA
o-Xylene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/30/17 1:32AM	PA/VA
Toluene	ND	1.94	3.88	NA	µg/Kg	09/25/17 11:26AM	09/30/17 1:32AM	PA/VA
Surr: 1,2-Dichloroethane-d4	92.3	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/30/17 1:32AM	
Surr: 4-Bromofluorobenzene	90.0	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/30/17 1:32AM	
Surr: Dibromofluoromethane	90.9	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/30/17 1:32AM	
Surr: Toluene-d8	88.6	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/30/17 1:32AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-10A	**Matrix:**	Soil
Client Sample ID:	B18-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	19	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	9,570,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 8:46AM	PA/VA
Surr: 2,5-Dibromotoluene	97.3	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 8:46AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	5,000	10,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Acrolein	ND	5,000	10,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Acrylonitrile	ND	5,000	10,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Benzene	12,100	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Bromobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Bromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Bromodichloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Bromoform	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Bromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
2-Butanone	ND	5,000	10,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
n-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
sec-Butylbenzene	14,200	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
tert-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Carbon disulfide	ND	2,500	5,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Carbon tetrachloride	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Chlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Chloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Chloroform	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Chloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
2-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
4-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Dibromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
DBCP	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
1,2-Dibromoethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Dibromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
1,2-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
1,3-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
1,4-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Dichlorodifluoromethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
1,1-Dichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-10A	**Matrix:**	Soil
Client Sample ID:	B18-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
1,2-Dichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,1-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
cis-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
trans-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,3-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
2,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,1-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
cis-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
trans-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Ethylbenzene	191,000	5,000	10,000	NA		µg/Kg		10/02/17 8:49PM	PA/VA
Hexachlorobutadiene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
2-Hexanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Iodomethane	ND	5,000	10,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Isopropylbenzene	28,700	5,000	10,000	NA		µg/Kg		10/02/17 8:49PM	PA/VA
p-Isopropyltoluene	27,600	5,000	10,000	NA		µg/Kg		10/02/17 8:49PM	PA/VA
Methylene chloride	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
4-Methyl-2-pentanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
MTBE	8,220	2,500	5,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
n-Propylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Styrene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Tetrachloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Toluene	311,000	5,000	10,000	NA	E	µg/Kg		10/02/17 8:49PM	PA/VA
1,2,3-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,2,4-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,1,1-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,1,2-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Trichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Trichlorofluoromethane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,2,3-Trichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
1,2,4-Trimethylbenzene	642,000	5,000	10,000	NA	E	µg/Kg		10/02/17 8:49PM	PA/VA
1,3,5-Trimethylbenzene	201,000	5,000	10,000	NA		µg/Kg		10/02/17 8:49PM	PA/VA
Vinyl acetate	ND	5,000	10,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
Vinyl chloride	ND	500	1,000	NA		µg/Kg		10/02/17 5:31PM	PA/VA
o-Xylene	333,000	5,000	10,000	NA	E	µg/Kg		10/02/17 8:49PM	PA/VA
m,p-Xylene	711,000	10,000	20,000	NA	E	µg/Kg		10/02/17 8:49PM	PA/VA
Surr: 1,2-Dichloroethane-d4	113	NA	65-124	NA		%Rec		10/02/17 5:31PM	
Surr: 4-Bromofluorobenzene	109	NA	75.8-128	NA		%Rec		10/02/17 5:31PM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-10A	**Matrix:**	Soil
Client Sample ID:	B18-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Dibromofluoromethane	92.6	NA	74.1-126	NA	%Rec		10/02/17 5:31PM	
Surr: Toluene-d8	92.8	NA	77.3-130	NA	%Rec		10/02/17 5:31PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	2,000	4,000	NA	µg/Kg		10/02/17 5:31PM	
tert-Amyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 5:31PM	
tert-Amyl Methyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 5:31PM	
tert-Butyl alcohol	ND	200,000	400,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
tert-Butyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 5:31PM	
Ethanol	ND	400,000	800,000	NA	µg/Kg		10/02/17 5:31PM	PA/VA
Isopropyl ether	ND	10,000	20,000	NA	µg/Kg		10/02/17 5:31PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:08:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-11A	**Matrix:**	Soil
Client Sample ID:	B18-2	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	16	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	15,700,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 9:18AM	PA/VA
Surr: 2,5-Dibromotoluene	100	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 9:18AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	24,600	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 3:03PM	PA/VA
Ethylbenzene	422,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 12:16PM	PA/VA
m,p-Xylene	1,470,000	10,000	20,000	NA	E	µg/Kg	09/25/17 11:26AM	10/02/17 12:16PM	PA/VA
Methyl tert-butyl ether	8,300	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 3:03PM	PA/VA
Naphthalene	154,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 12:16PM	PA/VA
o-Xylene	719,000	5,000	10,000	NA	E	µg/Kg	09/25/17 11:26AM	10/02/17 12:16PM	PA/VA
Toluene	984,000	5,000	10,000	NA	E	µg/Kg	09/25/17 11:26AM	10/02/17 12:16PM	PA/VA
Surr: 1,2-Dichloroethane-d4	165	NA	62.4-137	NA	S	%Rec	09/25/17 11:26AM	09/28/17 3:03PM	
Surr: 4-Bromofluorobenzene	128	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/28/17 3:03PM	
Surr: Dibromofluoromethane	95.0	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/28/17 3:03PM	
Surr: Toluene-d8	106	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/28/17 3:03PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:11:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-12A	**Matrix:**	Soil
Client Sample ID:	B18-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	28	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	936,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 9:50AM	PA/VA
Surr: 2,5-Dibromotoluene	95.5	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 9:50AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	740	500	1,000	NA	J	µg/Kg	09/25/17 11:26AM	09/28/17 3:36PM	PA/VA
Ethylbenzene	16,300	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 3:36PM	PA/VA
m,p-Xylene	70,900	1,000	2,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 3:36PM	PA/VA
Methyl tert-butyl ether	6,310	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 3:36PM	PA/VA
Naphthalene	78,700	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 12:49PM	PA/VA
o-Xylene	31,900	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 3:36PM	PA/VA
Toluene	26,000	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 3:36PM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/28/17 3:36PM	
Surr: 4-Bromofluorobenzene	109	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/28/17 3:36PM	
Surr: Dibromofluoromethane	99.2	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/28/17 3:36PM	
Surr: Toluene-d8	104	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/28/17 3:36PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:16:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-13A	**Matrix:**	Soil
Client Sample ID:	B18-4	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	18	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	3,170,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 10:21AM	PA/VA
Surr: 2,5-Dibromotoluene	95.0	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 10:21AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 4:09PM	PA/VA
Ethylbenzene	51,200	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 1:30PM	PA/VA
m,p-Xylene	258,000	10,000	20,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 1:30PM	PA/VA
Methyl tert-butyl ether	ND	2,500	5,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 4:09PM	PA/VA
Naphthalene	43,000	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 4:09PM	PA/VA
o-Xylene	104,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 1:30PM	PA/VA
Toluene	82,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 1:30PM	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/28/17 4:09PM	
Surr: 4-Bromofluorobenzene	101	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/28/17 4:09PM	
Surr: Dibromofluoromethane	99.0	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/28/17 4:09PM	
Surr: Toluene-d8	103	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/28/17 4:09PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:21:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-14A	**Matrix:**	Soil
Client Sample ID:	B18-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	24	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	8,510,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 10:52AM	PA/VA
Surr: 2,5-Dibromotoluene	101	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 10:52AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	11,100	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 4:42PM	PA/VA
Ethylbenzene	209,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:04PM	PA/VA
m,p-Xylene	856,000	10,000	20,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:04PM	PA/VA
Methyl tert-butyl ether	5,350	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 4:42PM	PA/VA
Naphthalene	71,800	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:04PM	PA/VA
o-Xylene	348,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:04PM	PA/VA
Toluene	555,000	5,000	10,000	NA	E	µg/Kg	09/25/17 11:26AM	10/02/17 2:04PM	PA/VA
Surr: 1,2-Dichloroethane-d4	139	NA	62.4-137	NA	S	%Rec	09/25/17 11:26AM	09/28/17 4:42PM	
Surr: 4-Bromofluorobenzene	102	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/28/17 4:42PM	
Surr: Dibromofluoromethane	101	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/28/17 4:42PM	
Surr: Toluene-d8	105	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/28/17 4:42PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:28:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-15A	**Matrix:**	Soil
Client Sample ID:	B18-6	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	19	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	3,910,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 11:24AM	PA/VA
Surr: 2,5-Dibromotoluene	105	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 11:24AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Acrolein	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Acrylonitrile	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Benzene	26,300	5,000	10,000	NA	µg/Kg		10/02/17 9:22PM	PA/VA
Bromobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Bromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Bromodichloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Bromoform	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Bromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
2-Butanone	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
n-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
sec-Butylbenzene	16,000	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
tert-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Carbon disulfide	ND	2,500	5,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Carbon tetrachloride	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Chlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Chloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Chloroform	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Chloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
2-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
4-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Dibromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
DBCP	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
1,2-Dibromoethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Dibromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
1,2-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
1,3-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
1,4-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Dichlorodifluoromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
1,1-Dichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:28:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-15A	**Matrix:**	Soil
Client Sample ID:	B18-6	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
1,2-Dichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,1-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
cis-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
trans-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,3-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
2,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,1-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
cis-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
trans-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Ethylbenzene	258,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:22PM	PA/VA
Hexachlorobutadiene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
2-Hexanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Iodomethane	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Isopropylbenzene	33,700	5,000	10,000	NA		µg/Kg		10/02/17 9:22PM	PA/VA
p-Isopropyltoluene	26,900	5,000	10,000	NA		µg/Kg		10/02/17 9:22PM	PA/VA
Methylene chloride	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
4-Methyl-2-pentanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
MTBE	11,600	2,500	5,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
n-Propylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Styrene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Tetrachloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Toluene	610,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:22PM	PA/VA
1,2,3-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,2,4-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,1,1-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,1,2-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Trichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Trichlorofluoromethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,2,3-Trichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
1,2,4-Trimethylbenzene	556,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:22PM	PA/VA
1,3,5-Trimethylbenzene	185,000	5,000	10,000	NA		µg/Kg		10/02/17 9:22PM	PA/VA
Vinyl acetate	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
Vinyl chloride	ND	500	1,000	NA		µg/Kg		10/02/17 6:04PM	PA/VA
o-Xylene	395,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:22PM	PA/VA
m,p-Xylene	911,000	10,000	20,000	NA	E	µg/Kg		10/02/17 9:22PM	PA/VA
Surr: 1,2-Dichloroethane-d4	132	NA	65-124	NA	S	%Rec		10/02/17 6:04PM	
Surr: 4-Bromofluorobenzene	116	NA	75.8-128	NA		%Rec		10/02/17 6:04PM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:28:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-15A	**Matrix:**	Soil
Client Sample ID:	B18-6	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Dibromofluoromethane	93.9	NA	74.1-126	NA	%Rec		10/02/17 6:04PM	
Surr: Toluene-d8	96.1	NA	77.3-130	NA	%Rec		10/02/17 6:04PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:04PM	
tert-Amyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:04PM	
tert-Amyl Methyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:04PM	
tert-Butyl alcohol	ND	200,000	400,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
tert-Butyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:04PM	
Ethanol	ND	400,000	800,000	NA	µg/Kg		10/02/17 6:04PM	PA/VA
Isopropyl ether	ND	10,000	20,000	NA	µg/Kg		10/02/17 6:04PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 2:47:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-16A	**Matrix:**	Soil
Client Sample ID:	B18-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	18	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	2,830,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 11:55AM	PA/VA
Surr: 2,5-Dibromotoluene	101	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 11:55AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	2,860	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 10:20PM	PA/VA
Ethylbenzene	151,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 4:48PM	PA/VA
m,p-Xylene	658,000	10,000	20,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 4:48PM	PA/VA
Methyl tert-butyl ether	ND	2,500	5,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 10:20PM	PA/VA
Naphthalene	62,600	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 4:48PM	PA/VA
o-Xylene	268,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 4:48PM	PA/VA
Toluene	309,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 4:48PM	PA/VA
Surr: 1,2-Dichloroethane-d4	135	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/28/17 10:20PM	
Surr: 4-Bromofluorobenzene	100	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/28/17 10:20PM	
Surr: Dibromofluoromethane	102	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/28/17 10:20PM	
Surr: Toluene-d8	105	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/28/17 10:20PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 2:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-17A	**Matrix:**	Soil
Client Sample ID:	B18-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	18	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	680,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 12:26PM	PA/VA
Surr: 2,5-Dibromotoluene	104	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 12:26PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 2:32PM	PA/VA
Ethylbenzene	4,730	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 2:32PM	PA/VA
m,p-Xylene	26,100	1,000	2,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 2:32PM	PA/VA
Methyl tert-butyl ether	ND	2,500	5,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 2:32PM	PA/VA
Naphthalene	4,920	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 2:32PM	PA/VA
o-Xylene	12,500	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 2:32PM	PA/VA
Toluene	5,440	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 2:32PM	PA/VA
Surr: 1,2-Dichloroethane-d4	112	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/29/17 2:32PM	
Surr: 4-Bromofluorobenzene	103	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/29/17 2:32PM	
Surr: Dibromofluoromethane	102	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/29/17 2:32PM	
Surr: Toluene-d8	104	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/29/17 2:32PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 3:00:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-18A	**Matrix:**	Soil
Client Sample ID:	B18-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	30	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	3,610,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 12:57PM	PA/VA
Surr: 2,5-Dibromotoluene	95.0	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 12:57PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	9,170	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:05PM	PA/VA
Ethylbenzene	76,800	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 5:36PM	PA/VA
m,p-Xylene	304,000	10,000	20,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 5:36PM	PA/VA
Methyl tert-butyl ether	3,130	2,500	5,000	NA	J	µg/Kg	09/25/17 11:26AM	09/29/17 3:05PM	PA/VA
Naphthalene	21,300	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:05PM	PA/VA
o-Xylene	97,100	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 5:36PM	PA/VA
Toluene	260,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 5:36PM	PA/VA
Surr: 1,2-Dichloroethane-d4	132	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/29/17 3:05PM	
Surr: 4-Bromofluorobenzene	102	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/29/17 3:05PM	
Surr: Dibromofluoromethane	99.4	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/29/17 3:05PM	
Surr: Toluene-d8	98.9	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/29/17 3:05PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-19A	**Matrix:**	Soil
Client Sample ID:	B19-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	20	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	9,060,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 1:29PM	PA/VA
Surr: 2,5-Dibromotoluene	99.8	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 1:29PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	11,100	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:38PM	PA/VA
Ethylbenzene	190,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:37PM	PA/VA
m,p-Xylene	806,000	10,000	20,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:37PM	PA/VA
Methyl tert-butyl ether	8,000	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:38PM	PA/VA
Naphthalene	115,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:37PM	PA/VA
o-Xylene	354,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:37PM	PA/VA
Toluene	427,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 2:37PM	PA/VA
Surr: 1,2-Dichloroethane-d4	152	NA	62.4-137	NA	S	%Rec	09/25/17 11:26AM	09/29/17 3:38PM	
Surr: 4-Bromofluorobenzene	115	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/29/17 3:38PM	
Surr: Dibromofluoromethane	101	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/29/17 3:38PM	
Surr: Toluene-d8	105	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/29/17 3:38PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:48:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-20A	**Matrix:**	Soil
Client Sample ID:	B19-2	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	19	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	4,580,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 2:00PM	PA/VA
Surr: 2,5-Dibromotoluene	100	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 2:00PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	670	500	1,000	NA	J	µg/Kg	09/25/17 11:26AM	09/29/17 6:56PM	PA/VA
Ethylbenzene	96,100	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 3:09PM	PA/VA
m,p-Xylene	424,000	10,000	20,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 3:09PM	PA/VA
Methyl tert-butyl ether	ND	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 6:56PM	PA/VA
Naphthalene	36,100	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 6:56PM	PA/VA
o-Xylene	186,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 3:09PM	PA/VA
Toluene	150,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 3:09PM	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/29/17 6:56PM	
Surr: 4-Bromofluorobenzene	102	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/29/17 6:56PM	
Surr: Dibromofluoromethane	99.8	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/29/17 6:56PM	
Surr: Toluene-d8	102	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/29/17 6:56PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-21A	**Matrix:**	Soil
Client Sample ID:	B19-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	14	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	12,600,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 2:32PM	PA/VA
Surr: 2,5-Dibromotoluene	106	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 2:32PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Acrolein	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Acrylonitrile	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Benzene	23,100	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Bromobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Bromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Bromodichloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Bromoform	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Bromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
2-Butanone	ND	5,000	10,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
n-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
sec-Butylbenzene	21,100	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
tert-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Carbon disulfide	ND	2,500	5,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Carbon tetrachloride	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Chlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Chloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Chloroform	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Chloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
2-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
4-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Dibromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
DBCP	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
1,2-Dibromoethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Dibromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
1,2-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
1,3-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
1,4-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Dichlorodifluoromethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
1,1-Dichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-21A	**Matrix:**	Soil
Client Sample ID:	B19-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
1,2-Dichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,1-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
cis-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
trans-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,3-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
2,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,1-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
cis-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
trans-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Ethylbenzene	260,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:56PM	PA/VA
Hexachlorobutadiene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
2-Hexanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Iodomethane	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Isopropylbenzene	39,900	5,000	10,000	NA		µg/Kg		10/02/17 9:56PM	PA/VA
p-Isopropyltoluene	32,100	5,000	10,000	NA		µg/Kg		10/02/17 9:56PM	PA/VA
Methylene chloride	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
4-Methyl-2-pentanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
MTBE	7,700	2,500	5,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
n-Propylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Styrene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Tetrachloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Toluene	588,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:56PM	PA/VA
1,2,3-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,2,4-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,1,1-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,1,2-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Trichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Trichlorofluoromethane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,2,3-Trichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
1,2,4-Trimethylbenzene	722,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:56PM	PA/VA
1,3,5-Trimethylbenzene	232,000	5,000	10,000	NA		µg/Kg		10/02/17 9:56PM	PA/VA
Vinyl acetate	ND	5,000	10,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
Vinyl chloride	ND	500	1,000	NA		µg/Kg		10/02/17 6:37PM	PA/VA
o-Xylene	401,000	5,000	10,000	NA	E	µg/Kg		10/02/17 9:56PM	PA/VA
m,p-Xylene	882,000	10,000	20,000	NA	E	µg/Kg		10/02/17 9:56PM	PA/VA
Surr: 1,2-Dichloroethane-d4	85.2	NA	65-124	NA		%Rec		10/02/17 6:37PM	
Surr: 4-Bromofluorobenzene	112	NA	75.8-128	NA		%Rec		10/02/17 6:37PM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-21A	**Matrix:**	Soil
Client Sample ID:	B19-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Dibromofluoromethane	92.7	NA	74.1-126	NA	%Rec		10/02/17 6:37PM	
Surr: Toluene-d8	98.5	NA	77.3-130	NA	%Rec		10/02/17 6:37PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:37PM	
tert-Amyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:37PM	
tert-Amyl Methyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:37PM	
tert-Butyl alcohol	ND	200,000	400,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
tert-Butyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 6:37PM	
Ethanol	ND	400,000	800,000	NA	µg/Kg		10/02/17 6:37PM	PA/VA
Isopropyl ether	ND	10,000	20,000	NA	µg/Kg		10/02/17 6:37PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:56:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-22A	**Matrix:**	Soil
Client Sample ID:	B19-4	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	8,100,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 3:16PM	PA/VA
Surr: 2,5-Dibromotoluene	102	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 3:16PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	4,560	500	1,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 8:02PM	PA/VA
Ethylbenzene	189,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 3:42PM	PA/VA
m,p-Xylene	750,000	10,000	20,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 3:42PM	PA/VA
Methyl tert-butyl ether	ND	2,500	5,000	NA	µg/Kg	09/25/17 11:26AM	09/29/17 8:02PM	PA/VA
Naphthalene	102,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 3:42PM	PA/VA
o-Xylene	318,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 3:42PM	PA/VA
Toluene	433,000	5,000	10,000	NA	µg/Kg	09/25/17 11:26AM	10/02/17 3:42PM	PA/VA
Surr: 1,2-Dichloroethane-d4	136	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/29/17 8:02PM	
Surr: 4-Bromofluorobenzene	114	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/29/17 8:02PM	
Surr: Dibromofluoromethane	100	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/29/17 8:02PM	
Surr: Toluene-d8	100	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/29/17 8:02PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 3:59:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-23A	**Matrix:**	Soil
Client Sample ID:	B19-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	17	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	5,450,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 6:57PM	PA/VA
Surr: 2,5-Dibromotoluene	90.0	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 6:57PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	3,790	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 8:35PM	PA/VA
Ethylbenzene	143,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 4:15PM	PA/VA
m,p-Xylene	581,000	10,000	20,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 4:15PM	PA/VA
Methyl tert-butyl ether	2,710	2,500	5,000	NA	J	µg/Kg	09/25/17 11:26AM	09/29/17 8:35PM	PA/VA
Naphthalene	94,400	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 4:15PM	PA/VA
o-Xylene	241,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 4:15PM	PA/VA
Toluene	342,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 4:15PM	PA/VA
Surr: 1,2-Dichloroethane-d4	126	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/29/17 8:35PM	
Surr: 4-Bromofluorobenzene	108	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/29/17 8:35PM	
Surr: Dibromofluoromethane	99.8	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/29/17 8:35PM	
Surr: Toluene-d8	101	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/29/17 8:35PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 4:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-24A	**Matrix:**	Soil
Client Sample ID:	B19-6	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	17	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	5,830,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 7:29PM	PA/VA
Surr: 2,5-Dibromotoluene	92.1	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 7:29PM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	5,000	10,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Acrolein	ND	5,000	10,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Acrylonitrile	ND	5,000	10,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Benzene	23,400	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Bromobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Bromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Bromodichloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Bromoform	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Bromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
2-Butanone	ND	5,000	10,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
n-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
sec-Butylbenzene	9,330	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
tert-Butylbenzene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Carbon disulfide	ND	2,500	5,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Carbon tetrachloride	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Chlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Chloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Chloroform	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Chloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
2-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
4-Chlorotoluene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Dibromochloromethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
DBCP	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
1,2-Dibromoethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Dibromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
1,2-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
1,3-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
1,4-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Dichlorodifluoromethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
1,1-Dichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 4:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-24A	**Matrix:**	Soil
Client Sample ID:	B19-6	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
1,2-Dichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,1-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
cis-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
trans-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,3-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
2,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,1-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
cis-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
trans-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Ethylbenzene	107,000	5,000	10,000	NA		µg/Kg		10/02/17 10:29PM	PA/VA
Hexachlorobutadiene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
2-Hexanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Iodomethane	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Isopropylbenzene	19,300	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
p-Isopropyltoluene	20,300	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Methylene chloride	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
4-Methyl-2-pentanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
MTBE	20,300	2,500	5,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
n-Propylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Styrene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Tetrachloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Toluene	318,000	5,000	10,000	NA	E	µg/Kg		10/02/17 10:29PM	PA/VA
1,2,3-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,2,4-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,1,1-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,1,2-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Trichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Trichlorofluoromethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,2,3-Trichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
1,2,4-Trimethylbenzene	294,000	5,000	10,000	NA	E	µg/Kg		10/02/17 10:29PM	PA/VA
1,3,5-Trimethylbenzene	87,400	5,000	10,000	NA		µg/Kg		10/02/17 10:29PM	PA/VA
Vinyl acetate	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
Vinyl chloride	ND	500	1,000	NA		µg/Kg		10/02/17 7:10PM	PA/VA
o-Xylene	165,000	5,000	10,000	NA		µg/Kg		10/02/17 10:29PM	PA/VA
m,p-Xylene	399,000	10,000	20,000	NA		µg/Kg		10/02/17 10:29PM	PA/VA
Surr: 1,2-Dichloroethane-d4	119	NA	65-124	NA		%Rec		10/02/17 7:10PM	
Surr: 4-Bromofluorobenzene	111	NA	75.8-128	NA		%Rec		10/02/17 7:10PM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 4:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-24A	**Matrix:**	Soil
Client Sample ID:	B19-6	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Dibromofluoromethane	90.9	NA	74.1-126	NA	%Rec		10/02/17 7:10PM	
Surr: Toluene-d8	95.4	NA	77.3-130	NA	%Rec		10/02/17 7:10PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:10PM	
tert-Amyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:10PM	
tert-Amyl Methyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:10PM	
tert-Butyl alcohol	ND	200,000	400,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
tert-Butyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:10PM	
Ethanol	ND	400,000	800,000	NA	µg/Kg		10/02/17 7:10PM	PA/VA
Isopropyl ether	ND	10,000	20,000	NA	µg/Kg		10/02/17 7:10PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 2:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-25A	**Matrix:**	Soil
Client Sample ID:	B19-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	24	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	6,930,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 8:00PM	PA/VA
Surr: 2,5-Dibromotoluene	101	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 8:00PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	18,100	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
Ethylbenzene	132,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 6:09PM	PA/VA
m,p-Xylene	549,000	10,000	20,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 6:09PM	PA/VA
Methyl tert-butyl ether	8,920	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
Naphthalene	33,400	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:41PM	PA/VA
o-Xylene	224,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 6:09PM	PA/VA
Toluene	405,000	5,000	10,000	NA		µg/Kg	09/25/17 11:26AM	10/02/17 6:09PM	PA/VA
Surr: 1,2-Dichloroethane-d4	148	NA	62.4-137	NA	S	%Rec	09/25/17 11:26AM	09/29/17 9:41PM	
Surr: 4-Bromofluorobenzene	104	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/29/17 9:41PM	
Surr: Dibromofluoromethane	101	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/29/17 9:41PM	
Surr: Toluene-d8	102	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/29/17 9:41PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 2:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-26A	**Matrix:**	Soil
Client Sample ID:	B19-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	17	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	2,630,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/28/17 8:32PM	PA/VA
Surr: 2,5-Dibromotoluene	103	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/28/17 8:32PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	830	500	1,000	NA	J	µg/Kg	09/25/17 11:26AM	09/30/17 6:32PM	PA/VA
Ethylbenzene	29,000	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/30/17 6:32PM	PA/VA
m,p-Xylene	130,000	40,000	80,000	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:23PM	PA/VA
Methyl tert-butyl ether	ND	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	09/30/17 6:32PM	PA/VA
Naphthalene	14,600	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/30/17 6:32PM	PA/VA
o-Xylene	52,200	20,000	40,000	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:23PM	PA/VA
Toluene	209,000	20,000	40,000	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:23PM	PA/VA
Surr: 1,2-Dichloroethane-d4	115	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/30/17 6:32PM	
Surr: 4-Bromofluorobenzene	102	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/30/17 6:32PM	
Surr: Dibromofluoromethane	104	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/30/17 6:32PM	
Surr: Toluene-d8	106	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/30/17 6:32PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 2:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-27A	**Matrix:**	Soil
Client Sample ID:	B19-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	20	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	637,000	250,000	500,000	NA	µg/Kg	09/25/17 11:26AM	09/28/17 9:03PM	PA/VA
Surr: 2,5-Dibromotoluene	101	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/28/17 9:03PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	200	400	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:55PM	PA/VA
Ethylbenzene	678	200	400	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:55PM	PA/VA
m,p-Xylene	3,300	400	800	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:55PM	PA/VA
Methyl tert-butyl ether	ND	1,000	2,000	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:55PM	PA/VA
Naphthalene	1,620	200	400	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:55PM	PA/VA
o-Xylene	1,400	200	400	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:55PM	PA/VA
Toluene	593	200	400	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:55PM	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	10/05/17 6:55PM	
Surr: 4-Bromofluorobenzene	100	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	10/05/17 6:55PM	
Surr: Dibromofluoromethane	104	NA	69-143	NA	%Rec	09/25/17 11:26AM	10/05/17 6:55PM	
Surr: Toluene-d8	101	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	10/05/17 6:55PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/19/2017 9:43:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-28A	**Matrix:**	Soil
Client Sample ID:	B20-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	17	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	1,340	1,220	2,450	NA	J	µg/Kg	09/25/17 11:26AM	09/27/17 1:38PM	PA/VA
Surr: 2,5-Dibromotoluene	129	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/27/17 1:38PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	10/03/17 6:49PM	PA/VA
Ethylbenzene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	10/03/17 6:49PM	PA/VA
m,p-Xylene	ND	3.88	7.76	NA		µg/Kg	09/25/17 11:26AM	10/03/17 6:49PM	PA/VA
Methyl tert-butyl ether	ND	9.70	19.4	NA		µg/Kg	09/25/17 11:26AM	10/03/17 6:49PM	PA/VA
Naphthalene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	10/03/17 6:49PM	PA/VA
o-Xylene	ND	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	10/03/17 6:49PM	PA/VA
Toluene	6.20	1.94	3.88	NA		µg/Kg	09/25/17 11:26AM	10/03/17 6:49PM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/03/17 6:49PM	
Surr: 4-Bromofluorobenzene	95.2	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/03/17 6:49PM	
Surr: Dibromofluoromethane	95.8	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/03/17 6:49PM	
Surr: Toluene-d8	93.2	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/03/17 6:49PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/19/2017 9:55:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-29A	**Matrix:**	Soil
Client Sample ID:	B20-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	25	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,220	2,450	NA		µg/Kg	09/25/17 11:26AM	09/27/17 2:12PM	PA/VA
Surr: 2,5-Dibromotoluene	135	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/27/17 2:12PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	2.23	1.90	3.80	NA	J	µg/Kg	09/25/17 11:26AM	10/03/17 7:22PM	PA/VA
Ethylbenzene	ND	1.90	3.80	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:22PM	PA/VA
m,p-Xylene	ND	3.80	7.60	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:22PM	PA/VA
Methyl tert-butyl ether	9.55	9.50	19.0	NA	J	µg/Kg	09/25/17 11:26AM	10/03/17 7:22PM	PA/VA
Naphthalene	ND	1.90	3.80	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:22PM	PA/VA
o-Xylene	ND	1.90	3.80	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:22PM	PA/VA
Toluene	41.7	1.90	3.80	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:22PM	PA/VA
Surr: 1,2-Dichloroethane-d4	109	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/03/17 7:22PM	
Surr: 4-Bromofluorobenzene	96.7	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/03/17 7:22PM	
Surr: Dibromofluoromethane	101	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/03/17 7:22PM	
Surr: Toluene-d8	91.4	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/03/17 7:22PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/19/2017 12:10:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-30A	**Matrix:**	Soil
Client Sample ID:	B21-7	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	16	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,220	2,450	NA		µg/Kg	09/25/17 11:26AM	09/27/17 2:45PM	PA/VA
Surr: 2,5-Dibromotoluene	133	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/27/17 2:45PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 4:50AM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 4:50AM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 4:50AM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	09/30/17 4:50AM	PA/VA
Naphthalene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 4:50AM	PA/VA
o-Xylene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 4:50AM	PA/VA
Toluene	2.05	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	09/30/17 4:50AM	PA/VA
Surr: 1,2-Dichloroethane-d4	98.4	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/30/17 4:50AM	
Surr: 4-Bromofluorobenzene	90.8	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/30/17 4:50AM	
Surr: Dibromofluoromethane	98.8	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/30/17 4:50AM	
Surr: Toluene-d8	87.3	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/30/17 4:50AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/19/2017 12:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-31A	**Matrix:**	Soil
Client Sample ID:	B21-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	23	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,220	2,450	NA		µg/Kg	09/25/17 11:26AM	09/27/17 3:19PM	PA/VA
Surr: 2,5-Dibromotoluene	139	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/27/17 3:19PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 9:47AM	PA/VA
Ethylbenzene	ND	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 9:47AM	PA/VA
m,p-Xylene	ND	3.92	7.84	NA		µg/Kg	09/25/17 11:26AM	09/30/17 9:47AM	PA/VA
Methyl tert-butyl ether	ND	9.80	19.6	NA		µg/Kg	09/25/17 11:26AM	09/30/17 9:47AM	PA/VA
Naphthalene	ND	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 9:47AM	PA/VA
o-Xylene	ND	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 9:47AM	PA/VA
Toluene	2.51	1.96	3.92	NA	J	µg/Kg	09/25/17 11:26AM	09/30/17 9:47AM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.4	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/30/17 9:47AM	
Surr: 4-Bromofluorobenzene	94.4	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/30/17 9:47AM	
Surr: Dibromofluoromethane	98.0	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/30/17 9:47AM	
Surr: Toluene-d8	86.2	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/30/17 9:47AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/19/2017 3:12:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-32A	**Matrix:**	Soil
Client Sample ID:	B22-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	13	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,180	2,350	NA	µg/Kg	09/25/17 11:26AM	09/27/17 3:53PM	PA/VA
Surr: 2,5-Dibromotoluene	137	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/27/17 3:53PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:20AM	PA/VA
Ethylbenzene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:20AM	PA/VA
m,p-Xylene	ND	3.92	7.84	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:20AM	PA/VA
Methyl tert-butyl ether	ND	9.80	19.6	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:20AM	PA/VA
Naphthalene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:20AM	PA/VA
o-Xylene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:20AM	PA/VA
Toluene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:20AM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.9	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/30/17 10:20AM	
Surr: 4-Bromofluorobenzene	93.1	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/30/17 10:20AM	
Surr: Dibromofluoromethane	99.6	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/30/17 10:20AM	
Surr: Toluene-d8	84.9	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/30/17 10:20AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/19/2017 3:31:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-33A	**Matrix:**	Soil
Client Sample ID:	B22-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	16	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,200	2,400	NA	µg/Kg	09/25/17 11:26AM	09/27/17 4:26PM	PA/VA
Surr: 2,5-Dibromotoluene	132	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/27/17 4:26PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	2.00	4.00	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:53AM	PA/VA
Ethylbenzene	ND	2.00	4.00	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:53AM	PA/VA
m,p-Xylene	ND	4.00	8.00	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:53AM	PA/VA
Methyl tert-butyl ether	ND	10.0	20.0	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:53AM	PA/VA
Naphthalene	ND	2.00	4.00	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:53AM	PA/VA
o-Xylene	ND	2.00	4.00	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:53AM	PA/VA
Toluene	ND	2.00	4.00	NA	µg/Kg	09/25/17 11:26AM	09/30/17 10:53AM	PA/VA
Surr: 1,2-Dichloroethane-d4	93.0	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/30/17 10:53AM	
Surr: 4-Bromofluorobenzene	93.6	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/30/17 10:53AM	
Surr: Dibromofluoromethane	96.9	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/30/17 10:53AM	
Surr: Toluene-d8	88.0	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/30/17 10:53AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 9:35:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-34A	**Matrix:**	Soil
Client Sample ID:	B23-7	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	14	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,150	2,300	NA		µg/Kg	09/25/17 11:26AM	09/27/17 5:00PM	PA/VA
Surr: 2,5-Dibromotoluene	140	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/27/17 5:00PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 11:26AM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 11:26AM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 11:26AM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	09/30/17 11:26AM	PA/VA
Naphthalene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 11:26AM	PA/VA
o-Xylene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 11:26AM	PA/VA
Toluene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 11:26AM	PA/VA
Surr: 1,2-Dichloroethane-d4	91.8	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/30/17 11:26AM	
Surr: 4-Bromofluorobenzene	98.0	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	09/30/17 11:26AM	
Surr: Dibromofluoromethane	96.4	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/30/17 11:26AM	
Surr: Toluene-d8	87.1	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/30/17 11:26AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 9:51:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-35A	**Matrix:**	Soil
Client Sample ID:	B23-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	21	NA	1.0	NA	wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	1,120	2,250	NA	µg/Kg	09/25/17 11:26AM	09/27/17 5:34PM	PA/VA
Surr: 2,5-Dibromotoluene	133	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	09/27/17 5:34PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/30/17 11:59AM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/30/17 11:59AM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA	µg/Kg	09/25/17 11:26AM	09/30/17 11:59AM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA	µg/Kg	09/25/17 11:26AM	09/30/17 11:59AM	PA/VA
Naphthalene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/30/17 11:59AM	PA/VA
o-Xylene	ND	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/30/17 11:59AM	PA/VA
Toluene	5.15	1.98	3.96	NA	µg/Kg	09/25/17 11:26AM	09/30/17 11:59AM	PA/VA
Surr: 1,2-Dichloroethane-d4	90.3	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	09/30/17 11:59AM	
Surr: 4-Bromofluorobenzene	96.8	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	09/30/17 11:59AM	
Surr: Dibromofluoromethane	96.2	NA	69-143	NA	%Rec	09/25/17 11:26AM	09/30/17 11:59AM	
Surr: Toluene-d8	86.0	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	09/30/17 11:59AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 10:50:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-36A	**Matrix:**	Soil
Client Sample ID:	B24-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	17	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	6,310,000	39,800	79,700	NA		µg/Kg	10/03/17 10:32AM	10/05/17 6:42PM	
Surr: o-Terphenyl	122	NA	49.2-135	NA		%Rec	10/03/17 10:32AM	10/05/17 6:42PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	168,000	1,180	2,350	NA		µg/Kg	09/25/17 11:26AM	09/29/17 2:34PM	PA/VA
Surr: 2,5-Dibromotoluene	407	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 2:34PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Acetone	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Acrolein	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Acrylonitrile	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Benzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Bromobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Bromochloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Bromodichloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Bromoform	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Bromomethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
2-Butanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
n-Butylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
sec-Butylbenzene	2,810	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
tert-Butylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Carbon disulfide	ND	2,500	5,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Carbon tetrachloride	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Chlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Chloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Chloroform	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Chloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
2-Chlorotoluene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
4-Chlorotoluene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Dibromochloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
DBCP	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,2-Dibromoethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Dibromomethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 10:50:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-36A	**Matrix:**	Soil
Client Sample ID:	B24-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
1,2-Dichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,3-Dichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,4-Dichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Dichlorodifluoromethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,1-Dichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,2-Dichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,1-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
cis-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
trans-1,2-Dichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,3-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
2,2-Dichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,1-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
cis-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
trans-1,3-Dichloropropene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Ethylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Hexachlorobutadiene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
2-Hexanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Iodomethane	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Isopropylbenzene	600	500	1,000	NA	J	µg/Kg		10/02/17 7:43PM	PA/VA
p-Isopropyltoluene	7,100	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Methylene chloride	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
4-Methyl-2-pentanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
MTBE	ND	2,500	5,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
n-Propylbenzene	1,440	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Styrene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Tetrachloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Toluene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,2,3-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,2,4-Trichlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,1,1-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,1,2-Trichloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Trichloroethene	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Trichlorofluoromethane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,2,3-Trichloropropane	ND	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,2,4-Trimethylbenzene	13,300	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
1,3,5-Trimethylbenzene	6,520	500	1,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA
Vinyl acetate	ND	5,000	10,000	NA		µg/Kg		10/02/17 7:43PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 10:50:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-36A	**Matrix:**	Soil
Client Sample ID:	B24-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Vinyl chloride	ND	500	1,000	NA	µg/Kg		10/02/17 7:43PM	PA/VA
o-Xylene	1,090	500	1,000	NA	µg/Kg		10/02/17 7:43PM	PA/VA
m,p-Xylene	2,030	1,000	2,000	NA	µg/Kg		10/02/17 7:43PM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.7	NA	65-124	NA	%Rec		10/02/17 7:43PM	
Surr: 4-Bromofluorobenzene	106	NA	75.8-128	NA	%Rec		10/02/17 7:43PM	
Surr: Dibromofluoromethane	93.7	NA	74.1-126	NA	%Rec		10/02/17 7:43PM	
Surr: Toluene-d8	94.2	NA	77.3-130	NA	%Rec		10/02/17 7:43PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:43PM	
tert-Amyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:43PM	
tert-Amyl Methyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:43PM	
tert-Butyl alcohol	ND	200,000	400,000	NA	µg/Kg		10/02/17 7:43PM	PA/VA
tert-Butyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 7:43PM	
Ethanol	ND	400,000	800,000	NA	µg/Kg		10/02/17 7:43PM	PA/VA
Isopropyl ether	ND	10,000	20,000	NA	µg/Kg		10/02/17 7:43PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 10:54:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-37A	**Matrix:**	Soil
Client Sample ID:	B24-2	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	13	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	9,130,000	79,300	159,000	NA		µg/Kg	10/03/17 10:32AM	10/05/17 7:14PM	
Surr: o-Terphenyl	154	NA	49.2-135	NA	S	%Rec	10/03/17 10:32AM	10/05/17 7:14PM	

Notes:

Surrogate recovery was outside laboratory control limits due to required sample dilution and does not reflect extraction efficiency.

VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	126,000	1,250	2,500	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:07PM	PA/VA
Surr: 2,5-Dibromotoluene	437	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 3:07PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 1:40PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 1:40PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	09/30/17 1:40PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	09/30/17 1:40PM	PA/VA
Naphthalene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 1:40PM	PA/VA
o-Xylene	8.94	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	09/30/17 1:40PM	PA/VA
Toluene	2.59	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	09/30/17 1:40PM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.9	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	09/30/17 1:40PM	
Surr: 4-Bromofluorobenzene	152	NA	73.8-139	NA	S	%Rec	09/25/17 11:26AM	09/30/17 1:40PM	
Surr: Dibromofluoromethane	88.4	NA	69-143	NA		%Rec	09/25/17 11:26AM	09/30/17 1:40PM	
Surr: Toluene-d8	95.4	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	09/30/17 1:40PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 10:58:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-38A	**Matrix:**	Soil
Client Sample ID:	B24-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	6,690,000	79,500	159,000	NA		µg/Kg	10/03/17 10:32AM	10/05/17 7:47PM	
Surr: o-Terphenyl	144	NA	49.2-135	NA	S	%Rec	10/03/17 10:32AM	10/05/17 7:47PM	

Notes:

Surrogate recovery was outside laboratory control limits due to required sample dilution and does not reflect extraction efficiency.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	88,900	1,180	2,350	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:39PM	PA/VA
Surr: 2,5-Dibromotoluene	1,210	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 3:39PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:55PM	PA/VA
Ethylbenzene	5.05	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:55PM	PA/VA
m,p-Xylene	9.44	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:55PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:55PM	PA/VA
Naphthalene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:55PM	PA/VA
o-Xylene	73.4	1.98	3.96	NA	E	µg/Kg	09/25/17 11:26AM	10/03/17 7:55PM	PA/VA
Toluene	15.5	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/03/17 7:55PM	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/03/17 7:55PM	
Surr: 4-Bromofluorobenzene	268	NA	73.8-139	NA	S	%Rec	09/25/17 11:26AM	10/03/17 7:55PM	
Surr: Dibromofluoromethane	95.2	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/03/17 7:55PM	
Surr: Toluene-d8	112	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/03/17 7:55PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 11:06:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-39A	**Matrix:**	Soil
Client Sample ID:	B24-4	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	10	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	7,910,000	79,600	159,000	NA		µg/Kg	10/03/17 10:32AM	10/05/17 8:20PM	
Surr: o-Terphenyl	132	NA	49.2-135	NA		%Rec	10/03/17 10:32AM	10/05/17 8:20PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	112,000	1,220	2,450	NA		µg/Kg	09/25/17 11:26AM	09/29/17 4:11PM	PA/VA
Surr: 2,5-Dibromotoluene	1,280	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 4:11PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	4.65	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 3:58PM	PA/VA
Ethylbenzene	47.3	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 3:58PM	PA/VA
m,p-Xylene	52.2	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/04/17 3:58PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/04/17 3:58PM	PA/VA
Naphthalene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 3:58PM	PA/VA
o-Xylene	346	1.98	3.96	NA	E	µg/Kg	09/25/17 11:26AM	10/04/17 3:58PM	PA/VA
Toluene	16.6	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 3:58PM	PA/VA
Surr: 1,2-Dichloroethane-d4	83.8	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 3:58PM	
Surr: 4-Bromofluorobenzene	351	NA	73.8-139	NA	S	%Rec	09/25/17 11:26AM	10/04/17 3:58PM	
Surr: Dibromofluoromethane	98.9	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 3:58PM	
Surr: Toluene-d8	148	NA	71.2-133	NA	S	%Rec	09/25/17 11:26AM	10/04/17 3:58PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 11:13:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-40A	**Matrix:**	Soil
Client Sample ID:	B24-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	9.0	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	18,900,000	197,000	394,000	NA		µg/Kg	10/03/17 10:32AM	10/05/17 8:53PM	
Surr: o-Terphenyl	179	NA	49.2-135	NA	S	%Rec	10/03/17 10:32AM	10/05/17 8:53PM	

Notes:

Surrogate recovery was outside laboratory control limits due to required sample dilution and does not reflect extraction efficiency.

VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	1,740,000	25,000	50,000	NA		µg/Kg	09/25/17 11:26AM	10/04/17 5:08PM	PA/VA
Surr: 2,5-Dibromotoluene	301	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	10/04/17 5:08PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Acetone	ND	5,000	10,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Acrolein	ND	5,000	10,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Acrylonitrile	ND	5,000	10,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Benzene	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Bromobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Bromochloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Bromodichloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Bromoform	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Bromomethane	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
2-Butanone	ND	5,000	10,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
n-Butylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
sec-Butylbenzene	6,250	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
tert-Butylbenzene	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Carbon disulfide	ND	2,500	5,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Carbon tetrachloride	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Chlorobenzene	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Chloroethane	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Chloroform	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Chloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
2-Chlorotoluene	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
4-Chlorotoluene	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
Dibromochloromethane	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA
DBCP	ND	500	1,000	NA		µg/Kg		10/02/17 8:16PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 11:13:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-40A	**Matrix:**	Soil
Client Sample ID:	B24-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
1,2-Dibromoethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Dibromomethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,2-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,3-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,4-Dichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Dichlorodifluoromethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,1-Dichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,2-Dichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,1-Dichloroethene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
cis-1,2-Dichloroethene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
trans-1,2-Dichloroethene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,2-Dichloropropane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,3-Dichloropropane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
2,2-Dichloropropane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,1-Dichloropropene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
cis-1,3-Dichloropropene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
trans-1,3-Dichloropropene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Ethylbenzene	1,040	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Hexachlorobutadiene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
2-Hexanone	ND	5,000	10,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Iodomethane	ND	5,000	10,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Isopropylbenzene	1,410	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
p-Isopropyltoluene	22,600	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Methylene chloride	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
4-Methyl-2-pentanone	ND	5,000	10,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
MTBE	ND	2,500	5,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
n-Propylbenzene	2,350	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Styrene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Tetrachloroethene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Toluene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,2,3-Trichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,2,4-Trichlorobenzene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,1,1-Trichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,1,2-Trichloroethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Trichloroethene	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Trichlorofluoromethane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,2,3-Trichloropropane	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
1,2,4-Trimethylbenzene	24,200	5,000	10,000	NA	µg/Kg		10/02/17 11:35PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 11:13:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-40A	**Matrix:**	Soil
Client Sample ID:	B24-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
1,3,5-Trimethylbenzene	25,000	5,000	10,000	NA	µg/Kg		10/02/17 11:35PM	PA/VA
Vinyl acetate	ND	5,000	10,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Vinyl chloride	ND	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
o-Xylene	5,920	500	1,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
m,p-Xylene	2,610	1,000	2,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	65-124	NA	%Rec		10/02/17 8:16PM	
Surr: 4-Bromofluorobenzene	119	NA	75.8-128	NA	%Rec		10/02/17 8:16PM	
Surr: Dibromofluoromethane	92.5	NA	74.1-126	NA	%Rec		10/02/17 8:16PM	
Surr: Toluene-d8	96.1	NA	77.3-130	NA	%Rec		10/02/17 8:16PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	2,000	4,000	NA	µg/Kg		10/02/17 8:16PM	
tert-Amyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 8:16PM	
tert-Amyl Methyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 8:16PM	
tert-Butyl alcohol	ND	200,000	400,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
tert-Butyl Ethyl Ether	ND	2,000	4,000	NA	µg/Kg		10/02/17 8:16PM	
Ethanol	ND	400,000	800,000	NA	µg/Kg		10/02/17 8:16PM	PA/VA
Isopropyl ether	ND	10,000	20,000	NA	µg/Kg		10/02/17 8:16PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 11:58:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-41A	**Matrix:**	Soil
Client Sample ID:	B24-7	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	13	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	10,500,000	79,100	158,000	NA		µg/Kg	10/04/17 12:02PM	10/10/17 10:21AM	
Surr: o-Terphenyl	115	NA	49.2-135	NA		%Rec	10/04/17 12:02PM	10/10/17 10:21AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	127,000	1,250	2,500	NA		µg/Kg	09/25/17 11:26AM	09/29/17 5:16PM	PA/VA
Surr: 2,5-Dibromotoluene	1,430	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 5:16PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	9.27	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 5:07PM	PA/VA
Ethylbenzene	84.0	1.98	3.96	NA	E	µg/Kg	09/25/17 11:26AM	10/04/17 5:07PM	PA/VA
m,p-Xylene	162	3.96	7.92	NA	E	µg/Kg	09/25/17 11:26AM	10/04/17 5:07PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/04/17 5:07PM	PA/VA
Naphthalene	212	1.98	3.96	NA	E	µg/Kg	09/25/17 11:26AM	10/04/17 5:07PM	PA/VA
o-Xylene	322	1.98	3.96	NA	E	µg/Kg	09/25/17 11:26AM	10/04/17 5:07PM	PA/VA
Toluene	41.9	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 5:07PM	PA/VA
Surr: 1,2-Dichloroethane-d4	68.8	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 5:07PM	
Surr: 4-Bromofluorobenzene	246	NA	73.8-139	NA	S	%Rec	09/25/17 11:26AM	10/04/17 5:07PM	
Surr: Dibromofluoromethane	84.9	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 5:07PM	
Surr: Toluene-d8	126	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/04/17 5:07PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 12:14:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-42A	**Matrix:**	Soil
Client Sample ID:	B24-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	1,280,000	3,940	7,890	NA		µg/Kg	10/04/17 12:02PM	10/09/17 3:07PM	
Surr: o-Terphenyl	31.8	NA	49.2-135	NA	S	%Rec	10/04/17 12:02PM	10/09/17 3:07PM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	41,200	1,250	2,500	NA		µg/Kg	09/25/17 11:26AM	09/29/17 5:48PM	PA/VA
Surr: 2,5-Dibromotoluene	1,550	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 5:48PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	50.0	100	NA		µg/Kg	09/25/17 11:26AM	10/04/17 9:18PM	PA/VA
Ethylbenzene	79.0	50.0	100	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 9:18PM	PA/VA
m,p-Xylene	414	100	200	NA		µg/Kg	09/25/17 11:26AM	10/04/17 9:18PM	PA/VA
Methyl tert-butyl ether	284	250	500	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 9:18PM	PA/VA
Naphthalene	837	50.0	100	NA		µg/Kg	09/25/17 11:26AM	10/04/17 9:18PM	PA/VA
o-Xylene	675	50.0	100	NA		µg/Kg	09/25/17 11:26AM	10/04/17 9:18PM	PA/VA
Toluene	136	50.0	100	NA		µg/Kg	09/25/17 11:26AM	10/04/17 9:18PM	PA/VA
Surr: 1,2-Dichloroethane-d4	113	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 9:18PM	
Surr: 4-Bromofluorobenzene	226	NA	73.8-139	NA	S	%Rec	09/25/17 11:26AM	10/04/17 9:18PM	
Surr: Dibromofluoromethane	99.3	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 9:18PM	
Surr: Toluene-d8	108	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/04/17 9:18PM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 12:29:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-43A	**Matrix:**	Soil
Client Sample ID:	B24-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	2,360,000	3,990	7,970	NA		µg/Kg	10/04/17 12:02PM	10/09/17 3:40PM	
Surr: o-Terphenyl	105	NA	49.2-135	NA		%Rec	10/04/17 12:02PM	10/09/17 3:40PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	23,900	1,250	2,500	NA		µg/Kg	09/25/17 11:26AM	09/29/17 6:21PM	PA/VA
Surr: 2,5-Dibromotoluene	1,200	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 6:21PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:13PM	PA/VA
Ethylbenzene	18.2	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:13PM	PA/VA
m,p-Xylene	41.8	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:13PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:13PM	PA/VA
Naphthalene	125	1.98	3.96	NA	E	µg/Kg	09/25/17 11:26AM	10/04/17 6:13PM	PA/VA
o-Xylene	84.9	1.98	3.96	NA	E	µg/Kg	09/25/17 11:26AM	10/04/17 6:13PM	PA/VA
Toluene	5.07	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:13PM	PA/VA
Surr: 1,2-Dichloroethane-d4	86.7	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 6:13PM	
Surr: 4-Bromofluorobenzene	160	NA	73.8-139	NA	S	%Rec	09/25/17 11:26AM	10/04/17 6:13PM	
Surr: Dibromofluoromethane	94.1	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 6:13PM	
Surr: Toluene-d8	110	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/04/17 6:13PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/20/2017 12:41:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-44A	**Matrix:**	Soil
Client Sample ID:	B24-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	15	NA	1.0	NA		wt%		10/03/17 11:02AM	
SEMI-VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: YT**	
TPH (Diesel Range: C10 - C28)	153,000	3,970	7,940	NA		µg/Kg	10/04/17 12:02PM	10/09/17 4:13PM	
Surr: o-Terphenyl	86.9	NA	49.2-135	NA		%Rec	10/04/17 12:02PM	10/09/17 4:13PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	910,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 1:48AM	PA/VA
Surr: 2,5-Dibromotoluene	102	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	09/29/17 1:48AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.84	3.68	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:46PM	PA/VA
Ethylbenzene	1.96	1.84	3.68	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 6:46PM	PA/VA
m,p-Xylene	4.84	3.68	7.36	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 6:46PM	PA/VA
Methyl tert-butyl ether	ND	9.20	18.4	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:46PM	PA/VA
Naphthalene	33.8	1.84	3.68	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:46PM	PA/VA
o-Xylene	4.33	1.84	3.68	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:46PM	PA/VA
Toluene	4.47	1.84	3.68	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:46PM	PA/VA
Surr: 1,2-Dichloroethane-d4	92.5	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 6:46PM	
Surr: 4-Bromofluorobenzene	106	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/04/17 6:46PM	
Surr: Dibromofluoromethane	106	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 6:46PM	
Surr: Toluene-d8	87.5	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/04/17 6:46PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 8:25:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-45A	**Matrix:**	Soil
Client Sample ID:	B25-1	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	14	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	1,280,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 2:19AM	PA/VA
Surr: 2,5-Dibromotoluene	146	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 2:19AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	2.32	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 3:08AM	PA/VA
Ethylbenzene	8.37	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:08AM	PA/VA
m,p-Xylene	42.1	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:08AM	PA/VA
Methyl tert-butyl ether	180	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:08AM	PA/VA
Naphthalene	9.71	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:08AM	PA/VA
o-Xylene	32.9	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:08AM	PA/VA
Toluene	21.9	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:08AM	PA/VA
Surr: 1,2-Dichloroethane-d4	103	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 3:08AM	
Surr: 4-Bromofluorobenzene	102	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 3:08AM	
Surr: Dibromofluoromethane	106	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 3:08AM	
Surr: Toluene-d8	108	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 3:08AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 8:30:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-46A	**Matrix:**	Soil
Client Sample ID:	B25-2	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	9.0	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	1,090,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 2:50AM	PA/VA
Surr: 2,5-Dibromotoluene	189	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 2:50AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:41AM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:41AM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:41AM	PA/VA
Methyl tert-butyl ether	55.2	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:41AM	PA/VA
Naphthalene	52.1	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:41AM	PA/VA
o-Xylene	2.46	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 3:41AM	PA/VA
Toluene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:41AM	PA/VA
Surr: 1,2-Dichloroethane-d4	86.4	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 3:41AM	
Surr: 4-Bromofluorobenzene	89.7	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 3:41AM	
Surr: Dibromofluoromethane	93.0	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 3:41AM	
Surr: Toluene-d8	89.4	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 3:41AM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 8:35:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-47A	**Matrix:**	Soil
Client Sample ID:	B25-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	9.0	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	1,360,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:22AM	PA/VA
Surr: 2,5-Dibromotoluene	189	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 3:22AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:14AM	PA/VA
Ethylbenzene	ND	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:14AM	PA/VA
m,p-Xylene	ND	3.92	7.84	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:14AM	PA/VA
Methyl tert-butyl ether	109	9.80	19.6	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:14AM	PA/VA
Naphthalene	9.64	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:14AM	PA/VA
o-Xylene	2.30	1.96	3.92	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 4:14AM	PA/VA
Toluene	ND	1.96	3.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:14AM	PA/VA
Surr: 1,2-Dichloroethane-d4	90.9	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 4:14AM	
Surr: 4-Bromofluorobenzene	112	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 4:14AM	
Surr: Dibromofluoromethane	98.3	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 4:14AM	
Surr: Toluene-d8	81.9	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 4:14AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 8:40:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-48A	**Matrix:**	Soil
Client Sample ID:	B25-4	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	10	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	2,230,000	250,000	500,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 3:54AM	PA/VA
Surr: 2,5-Dibromotoluene	200	NA	51.3-138	NA	S	%Rec	09/25/17 11:26AM	09/29/17 3:54AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

The surrogate recovery is outside laboratory control limits due to matrix interference.

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:47AM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:47AM	PA/VA
m,p-Xylene	4.05	3.96	7.92	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 4:47AM	PA/VA
Methyl tert-butyl ether	314	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:47AM	PA/VA
Naphthalene	7.00	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:47AM	PA/VA
o-Xylene	4.34	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:47AM	PA/VA
Toluene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:47AM	PA/VA
Surr: 1,2-Dichloroethane-d4	94.8	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 4:47AM	
Surr: 4-Bromofluorobenzene	101	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 4:47AM	
Surr: Dibromofluoromethane	102	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 4:47AM	
Surr: Toluene-d8	77.3	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 4:47AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 8:45:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-49A	**Matrix:**	Soil
Client Sample ID:	B25-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	10	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,450	4,900	NA		µg/Kg	09/25/17 11:26AM	10/04/17 11:17AM	PA/VA
Surr: 2,5-Dibromotoluene	123	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 11:17AM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	2.00	4.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:25AM	PA/VA
Ethylbenzene	ND	2.00	4.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:25AM	PA/VA
m,p-Xylene	ND	4.00	8.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:25AM	PA/VA
Methyl tert-butyl ether	223	10.0	20.0	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:25AM	PA/VA
Naphthalene	37.4	2.00	4.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:25AM	PA/VA
o-Xylene	2.43	2.00	4.00	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:25AM	PA/VA
Toluene	2.50	2.00	4.00	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:25AM	PA/VA
Surr: 1,2-Dichloroethane-d4	107	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 5:25AM	
Surr: 4-Bromofluorobenzene	88.7	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 5:25AM	
Surr: Dibromofluoromethane	101	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 5:25AM	
Surr: Toluene-d8	92.0	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 5:25AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 9:35:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-50A	**Matrix:**	Soil
Client Sample ID:	B25-7	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,400	4,800	NA		µg/Kg	09/25/17 11:26AM	10/04/17 11:51AM	PA/VA
Surr: 2,5-Dibromotoluene	126	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 11:51AM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	2.00	4.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:58AM	PA/VA
Ethylbenzene	ND	2.00	4.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:58AM	PA/VA
m,p-Xylene	ND	4.00	8.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:58AM	PA/VA
Methyl tert-butyl ether	18.4	10.0	20.0	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:58AM	PA/VA
Naphthalene	33.4	2.00	4.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:58AM	PA/VA
o-Xylene	2.36	2.00	4.00	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:58AM	PA/VA
Toluene	ND	2.00	4.00	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:58AM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.1	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 5:58AM	
Surr: 4-Bromofluorobenzene	99.4	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 5:58AM	
Surr: Dibromofluoromethane	101	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 5:58AM	
Surr: Toluene-d8	79.1	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 5:58AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 9:48:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-51A	**Matrix:**	Soil
Client Sample ID:	B25-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,400	4,800	NA		µg/Kg	09/25/17 11:26AM	10/04/17 12:27PM	PA/VA
Surr: 2,5-Dibromotoluene	100	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 12:27PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:31AM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:31AM	PA/VA
m,p-Xylene	4.04	3.96	7.92	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 6:31AM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:31AM	PA/VA
Naphthalene	33,600	500	1,000	NA		µg/Kg	09/25/17 11:26AM	09/29/17 9:08PM	PA/VA
o-Xylene	3.43	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 6:31AM	PA/VA
Toluene	4.86	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:31AM	PA/VA
Surr: 1,2-Dichloroethane-d4	102	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 6:31AM	
Surr: 4-Bromofluorobenzene	90.6	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 6:31AM	
Surr: Dibromofluoromethane	107	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 6:31AM	
Surr: Toluene-d8	91.2	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 6:31AM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 10:12:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-52A	**Matrix:**	Soil
Client Sample ID:	B25-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,400	4,800	NA		µg/Kg	09/25/17 11:26AM	10/04/17 1:00PM	PA/VA
Surr: 2,5-Dibromotoluene	130	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 1:00PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:25PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:25PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:25PM	PA/VA
Methyl tert-butyl ether	10.9	9.90	19.8	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 7:25PM	PA/VA
Naphthalene	16.9	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:25PM	PA/VA
o-Xylene	2.42	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 7:25PM	PA/VA
Toluene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:25PM	PA/VA
Surr: 1,2-Dichloroethane-d4	89.2	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 7:25PM	
Surr: 4-Bromofluorobenzene	88.7	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/04/17 7:25PM	
Surr: Dibromofluoromethane	90.3	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 7:25PM	
Surr: Toluene-d8	91.6	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/04/17 7:25PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 10:20:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-53A	**Matrix:**	Soil
Client Sample ID:	B25-10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	12	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,450	4,900	NA		µg/Kg	09/25/17 11:26AM	10/04/17 1:34PM	PA/VA
Surr: 2,5-Dibromotoluene	127	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 1:34PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:58PM	PA/VA
Ethylbenzene	2.13	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 7:58PM	PA/VA
m,p-Xylene	5.41	3.96	7.92	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 7:58PM	PA/VA
Methyl tert-butyl ether	25.5	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:58PM	PA/VA
Naphthalene	166	100	200	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 4:59PM	PA/VA
o-Xylene	6.26	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 7:58PM	PA/VA
Toluene	2.06	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 7:58PM	PA/VA
Surr: 1,2-Dichloroethane-d4	90.3	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 7:58PM	
Surr: 4-Bromofluorobenzene	107	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/04/17 7:58PM	
Surr: Dibromofluoromethane	96.7	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 7:58PM	
Surr: Toluene-d8	91.3	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/04/17 7:58PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 11:19:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-54A	**Matrix:**	Soil
Client Sample ID:	B26-2	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	8.0	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,450	4,900	NA		µg/Kg	09/25/17 11:26AM	10/04/17 2:08PM	PA/VA
Surr: 2,5-Dibromotoluene	134	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 2:08PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 8:31PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 8:31PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/04/17 8:31PM	PA/VA
Methyl tert-butyl ether	22.2	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/04/17 8:31PM	PA/VA
Naphthalene	6.95	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/04/17 8:31PM	PA/VA
o-Xylene	2.42	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 8:31PM	PA/VA
Toluene	2.03	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/04/17 8:31PM	PA/VA
Surr: 1,2-Dichloroethane-d4	88.6	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/04/17 8:31PM	
Surr: 4-Bromofluorobenzene	81.6	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/04/17 8:31PM	
Surr: Dibromofluoromethane	98.6	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/04/17 8:31PM	
Surr: Toluene-d8	90.4	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/04/17 8:31PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 11:22:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-55A	**Matrix:**	Soil
Client Sample ID:	B26-3	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	12	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	10/04/17 2:41PM	PA/VA
Surr: 2,5-Dibromotoluene	137	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 2:41PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:35PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:35PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:35PM	PA/VA
Methyl tert-butyl ether	57.2	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:35PM	PA/VA
Naphthalene	12.7	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 3:35PM	PA/VA
o-Xylene	2.51	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 3:35PM	PA/VA
Toluene	3.20	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 3:35PM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.8	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 3:35PM	
Surr: 4-Bromofluorobenzene	108	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 3:35PM	
Surr: Dibromofluoromethane	106	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 3:35PM	
Surr: Toluene-d8	89.2	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 3:35PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 11:27:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-56A	**Matrix:**	Soil
Client Sample ID:	B26-4	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	10/04/17 6:38PM	PA/VA
Surr: 2,5-Dibromotoluene	58.8	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 6:38PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:08PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:08PM	PA/VA
m,p-Xylene	3.99	3.96	7.92	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 4:08PM	PA/VA
Methyl tert-butyl ether	76.9	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:08PM	PA/VA
Naphthalene	24.3	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:08PM	PA/VA
o-Xylene	2.57	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 4:08PM	PA/VA
Toluene	6.42	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:08PM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.6	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 4:08PM	
Surr: 4-Bromofluorobenzene	91.3	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 4:08PM	
Surr: Dibromofluoromethane	103	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 4:08PM	
Surr: Toluene-d8	89.7	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 4:08PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 11:32:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-57A	**Matrix:**	Soil
Client Sample ID:	B26-5	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,450	4,900	NA		µg/Kg	09/25/17 11:26AM	10/04/17 3:48PM	PA/VA
Surr: 2,5-Dibromotoluene	130	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 3:48PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:43PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:43PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:43PM	PA/VA
Methyl tert-butyl ether	72.6	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:43PM	PA/VA
Naphthalene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:43PM	PA/VA
o-Xylene	2.34	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 4:43PM	PA/VA
Toluene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 4:43PM	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 4:43PM	
Surr: 4-Bromofluorobenzene	103	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 4:43PM	
Surr: Dibromofluoromethane	106	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 4:43PM	
Surr: Toluene-d8	89.5	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 4:43PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 12:13:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-58A	**Matrix:**	Soil
Client Sample ID:	B26-6	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	13	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	10/04/17 4:24PM	PA/VA
Surr: 2,5-Dibromotoluene	125	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 4:24PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:16PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:16PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:16PM	PA/VA
Methyl tert-butyl ether	14.3	9.90	19.8	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:16PM	PA/VA
Naphthalene	6.47	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:16PM	PA/VA
o-Xylene	2.48	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:16PM	PA/VA
Toluene	2.38	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:16PM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.2	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 5:16PM	
Surr: 4-Bromofluorobenzene	98.6	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 5:16PM	
Surr: Dibromofluoromethane	104	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 5:16PM	
Surr: Toluene-d8	89.4	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 5:16PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 12:27:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-59A	**Matrix:**	Soil
Client Sample ID:	B26-7	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	12	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,500	5,000	NA		µg/Kg	09/25/17 11:26AM	10/04/17 4:58PM	PA/VA
Surr: 2,5-Dibromotoluene	131	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 4:58PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:49PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:49PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:49PM	PA/VA
Methyl tert-butyl ether	12.4	9.90	19.8	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:49PM	PA/VA
Naphthalene	7.42	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:49PM	PA/VA
o-Xylene	2.24	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 5:49PM	PA/VA
Toluene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 5:49PM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.4	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 5:49PM	
Surr: 4-Bromofluorobenzene	99.5	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 5:49PM	
Surr: Dibromofluoromethane	107	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 5:49PM	
Surr: Toluene-d8	90.8	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 5:49PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 12:41:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-60A	**Matrix:**	Soil
Client Sample ID:	B26-8	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**				**Analyst: NC**	
Percent Moisture	11	NA	1.0	NA		wt%		10/03/17 11:02AM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,450	4,900	NA		µg/Kg	09/25/17 11:26AM	10/04/17 5:31PM	PA/VA
Surr: 2,5-Dibromotoluene	96.7	NA	51.3-138	NA		%Rec	09/25/17 11:26AM	10/04/17 5:31PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:22PM	PA/VA
Ethylbenzene	ND	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:22PM	PA/VA
m,p-Xylene	ND	3.96	7.92	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:22PM	PA/VA
Methyl tert-butyl ether	ND	9.90	19.8	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:22PM	PA/VA
Naphthalene	6.19	1.98	3.96	NA		µg/Kg	09/25/17 11:26AM	10/05/17 6:22PM	PA/VA
o-Xylene	2.38	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 6:22PM	PA/VA
Toluene	3.31	1.98	3.96	NA	J	µg/Kg	09/25/17 11:26AM	10/05/17 6:22PM	PA/VA
Surr: 1,2-Dichloroethane-d4	94.0	NA	62.4-137	NA		%Rec	09/25/17 11:26AM	10/05/17 6:22PM	
Surr: 4-Bromofluorobenzene	101	NA	73.8-139	NA		%Rec	09/25/17 11:26AM	10/05/17 6:22PM	
Surr: Dibromofluoromethane	105	NA	69-143	NA		%Rec	09/25/17 11:26AM	10/05/17 6:22PM	
Surr: Toluene-d8	93.0	NA	71.2-133	NA		%Rec	09/25/17 11:26AM	10/05/17 6:22PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/21/2017 12:53:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-61A	**Matrix:**	Soil
Client Sample ID:	B26-9	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
PERCENT MOISTURE				**Method: SM2540 B-1997**			**Analyst: NC**	
Percent Moisture	15	NA	1.0	NA	wt%		10/05/17 12:24PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	2,450	4,900	NA	µg/Kg	09/25/17 11:26AM	10/04/17 6:05PM	PA/VA
Surr: 2,5-Dibromotoluene	134	NA	51.3-138	NA	%Rec	09/25/17 11:26AM	10/04/17 6:05PM	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:56PM	PA/VA
Ethylbenzene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:56PM	PA/VA
m,p-Xylene	ND	3.92	7.84	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:56PM	PA/VA
Methyl tert-butyl ether	20.9	9.80	19.6	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:56PM	PA/VA
Naphthalene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:56PM	PA/VA
o-Xylene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:56PM	PA/VA
Toluene	ND	1.96	3.92	NA	µg/Kg	09/25/17 11:26AM	10/05/17 6:56PM	PA/VA
Surr: 1,2-Dichloroethane-d4	98.9	NA	62.4-137	NA	%Rec	09/25/17 11:26AM	10/05/17 6:56PM	
Surr: 4-Bromofluorobenzene	104	NA	73.8-139	NA	%Rec	09/25/17 11:26AM	10/05/17 6:56PM	
Surr: Dibromofluoromethane	108	NA	69-143	NA	%Rec	09/25/17 11:26AM	10/05/17 6:56PM	
Surr: Toluene-d8	93.0	NA	71.2-133	NA	%Rec	09/25/17 11:26AM	10/05/17 6:56PM	

Notes:

Sample was received at the laboratory in a container that is not in accordance with method 5035 field sampling techniques. Results may not be acceptable for compliance purposes.

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-62A	**Matrix:**	Liquid
Client Sample ID:	DW03B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
DBCP	ND	0.00856	0.0225	0.200	µg/L	10/02/17 8:15AM	10/02/17 1:00PM	PA/VA
EDB	ND	0.00439	0.0225	0.050	µg/L	10/02/17 8:15AM	10/02/17 1:00PM	PA/VA
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	09/27/17 6:01AM	09/28/17 6:41AM	PA/VA
Surr: 2,5-Dibromotoluene	90.2	NA	53.5-143	NA	%Rec	09/27/17 6:01AM	09/28/17 6:41AM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**
Acetone	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		09/26/17 7:07AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-62A	**Matrix:**	Liquid
Client Sample ID:	DW03B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
MTBE	ND	1.00	5.00	NA	µg/L		09/26/17 7:07AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		09/26/17 7:07AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		09/26/17 7:07AM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.3	NA	75.9-132	NA	%Rec		09/26/17 7:07AM	
Surr: 4-Bromofluorobenzene	93.7	NA	73.6-132	NA	%Rec		09/26/17 7:07AM	
Surr: Dibromofluoromethane	96.0	NA	80.1-127	NA	%Rec		09/26/17 7:07AM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-62A	**Matrix:**	Liquid
Client Sample ID:	DW03B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Toluene-d8	98.7	NA	72.4-119	NA	%Rec		09/26/17 7:07AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	
tert-Butyl alcohol	ND	50.0	100	NA	µg/L		09/26/17 7:07AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 7:07AM	
Ethanol	ND	100	200	NA	µg/L		09/26/17 7:07AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		09/26/17 7:07AM	
Surr: 1,2-Dichloroethane-d4	97.5	NA	70-130	NA	%Rec		09/26/17 7:07AM	
Surr: 4-Bromofluorobenzene	88.2	NA	70-130	NA	%Rec		09/26/17 7:07AM	
Surr: Dibromofluoromethane	101	NA	70-130	NA	%Rec		09/26/17 7:07AM	
Surr: Toluene-d8	100	NA	70-130	NA	%Rec		09/26/17 7:07AM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:00:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-63A	**Matrix:**	Liquid
Client Sample ID:	POND01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
DBCP	ND	0.00829	0.0218	0.200	µg/L	10/02/17 8:15AM	10/02/17 1:16PM	PA/VA
EDB	ND	0.00425	0.0218	0.050	µg/L	10/02/17 8:15AM	10/02/17 1:16PM	PA/VA
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	09/27/17 6:01AM	09/28/17 7:12AM	PA/VA
Surr: 2,5-Dibromotoluene	95.9	NA	53.5-143	NA	%Rec	09/27/17 6:01AM	09/28/17 7:12AM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**
Acetone	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		09/26/17 7:40AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:00:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-63A	**Matrix:**	Liquid
Client Sample ID:	POND01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
MTBE	ND	1.00	5.00	NA	µg/L		09/26/17 7:40AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		09/26/17 7:40AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		09/26/17 7:40AM	PA/VA
Surr: 1,2-Dichloroethane-d4	99.5	NA	75.9-132	NA	%Rec		09/26/17 7:40AM	
Surr: 4-Bromofluorobenzene	97.3	NA	73.6-132	NA	%Rec		09/26/17 7:40AM	
Surr: Dibromofluoromethane	95.4	NA	80.1-127	NA	%Rec		09/26/17 7:40AM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:00:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-63A	**Matrix:**	Liquid
Client Sample ID:	POND01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Toluene-d8	102	NA	72.4-119	NA	%Rec		09/26/17 7:40AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	
tert-Butyl alcohol	ND	50.0	100	NA	µg/L		09/26/17 7:40AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 7:40AM	
Ethanol	ND	100	200	NA	µg/L		09/26/17 7:40AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		09/26/17 7:40AM	
Surr: 1,2-Dichloroethane-d4	101	NA	70-130	NA	%Rec		09/26/17 7:40AM	
Surr: 4-Bromofluorobenzene	92.9	NA	70-130	NA	%Rec		09/26/17 7:40AM	
Surr: Dibromofluoromethane	96.4	NA	70-130	NA	%Rec		09/26/17 7:40AM	
Surr: Toluene-d8	104	NA	70-130	NA	%Rec		09/26/17 7:40AM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:25:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-64A	**Matrix:**	Liquid
Client Sample ID:	POND02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
DBCP	ND	0.00854	0.0225	0.200	µg/L	10/02/17 8:15AM	10/02/17 1:32PM	PA/VA
EDB	ND	0.00438	0.0225	0.050	µg/L	10/02/17 8:15AM	10/02/17 1:32PM	PA/VA
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	09/27/17 6:01AM	09/28/17 7:44AM	PA/VA
Surr: 2,5-Dibromotoluene	93.4	NA	53.5-143	NA	%Rec	09/27/17 6:01AM	09/28/17 7:44AM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		09/26/17 8:13AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:25:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-64A	**Matrix:**	Liquid
Client Sample ID:	POND02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
MTBE	ND	1.00	5.00	NA	µg/L		09/26/17 8:13AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		09/26/17 8:13AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		09/26/17 8:13AM	PA/VA
Surr: 1,2-Dichloroethane-d4	103	NA	75.9-132	NA	%Rec		09/26/17 8:13AM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA	%Rec		09/26/17 8:13AM	
Surr: Dibromofluoromethane	99.7	NA	80.1-127	NA	%Rec		09/26/17 8:13AM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:25:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-64A	**Matrix:**	Liquid
Client Sample ID:	POND02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Toluene-d8	99.6	NA	72.4-119	NA	%Rec		09/26/17 8:13AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	
tert-Butyl alcohol	ND	50.0	100	NA	µg/L		09/26/17 8:13AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		09/26/17 8:13AM	
Ethanol	ND	100	200	NA	µg/L		09/26/17 8:13AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		09/26/17 8:13AM	
Surr: 1,2-Dichloroethane-d4	104	NA	70-130	NA	%Rec		09/26/17 8:13AM	
Surr: 4-Bromofluorobenzene	94.8	NA	70-130	NA	%Rec		09/26/17 8:13AM	
Surr: Dibromofluoromethane	102	NA	70-130	NA	%Rec		09/26/17 8:13AM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		09/26/17 8:13AM	

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:55:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-65A	**Matrix:**	Liquid
Client Sample ID:	ST01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
DBCP	ND	0.00846	0.0223	0.200	µg/L	10/02/17 8:15AM	10/02/17 1:48PM	PA/VA
EDB	ND	0.00434	0.0223	0.050	µg/L	10/02/17 8:15AM	10/02/17 1:48PM	PA/VA
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	09/27/17 6:01AM	09/28/17 8:16AM	PA/VA
Surr: 2,5-Dibromotoluene	94.6	NA	53.5-143	NA	%Rec	09/27/17 6:01AM	09/28/17 8:16AM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	50.0	100	NA	µg/L		09/26/17 8:46AM	PA/VA
Acrolein	ND	50.0	100	NA	µg/L		09/26/17 8:46AM	PA/VA
Acrylonitrile	ND	50.0	100	NA	µg/L		09/26/17 8:46AM	PA/VA
Benzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Bromobenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Bromochloromethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Bromodichloromethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Bromoform	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Bromomethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
MEK	ND	50.0	100	NA	µg/L		09/26/17 8:46AM	PA/VA
n-Butylbenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
sec-Butylbenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
tert-Butylbenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Carbon disulfide	ND	25.0	50.0	NA	µg/L		09/26/17 8:46AM	
Carbon tetrachloride	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Chlorobenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Chloroethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Chloroform	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Chloromethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
2-Chlorotoluene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
4-Chlorotoluene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Dibromochloromethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
DBCP	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
1,2-Dibromoethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Dibromomethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
1,2-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
1,3-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
1,4-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
Dichlorodifluoromethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
1,1-Dichloroethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA
1,2-Dichloroethane	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17093067

Date Reported: 10/11/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	9/18/2017 2:55:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-65A	**Matrix:**	Liquid
Client Sample ID:	ST01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
1,1-Dichloroethene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
cis-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
trans-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,3-Dichloropropane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
2,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,1-Dichloropropene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
cis-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
trans-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Ethylbenzene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Hexachlorobutadiene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
2-Hexanone	ND	50.0	100	NA		µg/L		09/26/17 8:46AM	PA/VA
Iodomethane	ND	50.0	100	NA		µg/L		09/26/17 8:46AM	PA/VA
Isopropylbenzene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
p-Isopropyltoluene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Methylene chloride	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
4-Methyl-2-pentanone	ND	50.0	100	NA		µg/L		09/26/17 8:46AM	PA/VA
MTBE	ND	10.0	50.0	NA		µg/L		09/26/17 8:46AM	PA/VA
n-Propylbenzene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Styrene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Tetrachloroethene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Toluene	6.20	5.00	10.0	NA	J	µg/L		09/26/17 8:46AM	PA/VA
1,2,3-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,2,4-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,1,1-Trichloroethane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,1,2-Trichloroethane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Trichloroethene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Trichlorofluoromethane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,2,3-Trichloropropane	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,2,4-Trimethylbenzene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
1,3,5-Trimethylbenzene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Vinyl acetate	ND	50.0	100	NA		µg/L		09/26/17 8:46AM	PA/VA
Vinyl chloride	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
o-Xylene	ND	5.00	10.0	NA		µg/L		09/26/17 8:46AM	PA/VA
m,p-Xylene	ND	10.0	20.0	NA		µg/L		09/26/17 8:46AM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	75.9-132	NA		%Rec		09/26/17 8:46AM	
Surr: 4-Bromofluorobenzene	96.7	NA	73.6-132	NA		%Rec		09/26/17 8:46AM	
Surr: Dibromofluoromethane	100	NA	80.1-127	NA		%Rec		09/26/17 8:46AM	

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Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	9/22/2017
Lab ID:	17093067-65A	**Matrix:**	Liquid
Client Sample ID:	ST01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		09/26/17 8:46AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	
tert-Amyl Ethyl Ether	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	
tert-Amyl Methyl Ether	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	
tert-Butyl alcohol	ND	500	1,000	NA	µg/L		09/26/17 8:46AM	PA/VA
tert-Butyl Ethyl Ether	ND	5.00	10.0	NA	µg/L		09/26/17 8:46AM	
Ethanol	ND	1,000	2,000	NA	µg/L		09/26/17 8:46AM	PA/VA
Isopropyl ether	ND	25.0	50.0	NA	µg/L		09/26/17 8:46AM	
Surr: 1,2-Dichloroethane-d4	105	NA	70-130	NA	%Rec		09/26/17 8:46AM	
Surr: 4-Bromofluorobenzene	98.2	NA	70-130	NA	%Rec		09/26/17 8:46AM	
Surr: Dibromofluoromethane	102	NA	70-130	NA	%Rec		09/26/17 8:46AM	
Surr: Toluene-d8	103	NA	70-130	NA	%Rec		09/26/17 8:46AM	

Notes:

The reporting limit is elevated as a result of dilutions required due to matrix interference.

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**17093067**
RCPNo:	**1**	Date and Time Received:	**9/22/2017 7:30:00 PM**	Received by:	**Randy Rose**
Completed By:	**Kim Pack**		Reviewed By:	**Scott Gross**	
Completed Date:	**9/23/2017 9:43:13 AM**		Reviewed Date:	**9/25/2017 3:44 PM**	

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 3.8 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **17093067**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

DBPix Evaluation

CHAIN OF CUSTODY RECORD

17093067

GREENE ENVIRONMENTAL SERVICES, LLC
GRE096
Billy Shirley

REIC
Research Environmental & Industrial Consultants, Inc.

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800-999-0105 • 304-255-2500 • www.reiclabs.com

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540-248-0183

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Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- TPH-DRO via 8015
- BTEX, MTBE, Nap via 8021
- VOCs via 8260 + Oxygenates (See "Comments")

TURNAROUND TIME: [x] NORMAL [ ] RUSH TURNAROUND* [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [x] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab									
B16-8	1 soil	09/18/17 @ 1038	Soil	Grab	X		X						
B16-10	1 soil	09/18/17 @ 1050	Soil	Grab	X		X						
B17-3	1 soil	09/18/17 @ 1214	Soil	Grab	X		X						
B17-4	1 soil	09/18/17 @ 1220	Soil	Grab	X		X						
B17-5	1 soil	09/18/17 @ 1225	Soil	Grab	X		X						
B17-7	1 soil	09/18/17 @ 1300	Soil	Grab	X		X						
B17-8	1 soil	09/18/17 @ 1306	Soil	Grab	X		X						
B17-9	1 soil	09/18/17 @ 1313	Soil	Grab	X		X						
B17-10	1 soil	09/18/17 @ 1321	Soil	Grab	X		X						
B18-1	1 soil	09/18/17 @ 1505	Soil	Grab	X		X	X					

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____ *
* (Use blank for a preservative not listed.)

COMMENTS:
Page 1 of 7

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [x] N

Corrected temp at arrival: 3.8 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [x] REIC [ ] Client Delivered by: [ ] Client [x] REIC [ ] UPS [ ] FedEx [ ] USPS

RECD	Date/Time	RECD	Date/Time	RECD	Date/Time
Caleb Harison	9/22/17 0917	Eric Rocca	9/22/17 1728		9/22/17 1930
Randy Ross	9-22-17 1015				
Anthony Duncan	9-22-17 1230				
[illegible]	9/22/17 1830				

www.ammara.com

CHAIN OF CUSTODY RECORD

REIC

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v13-0516 REIC use ONLY CLIENT ID GRE096 DATE ____ SHEET ____

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Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) ____
City ____ State ____ Zip ____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

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- TPH-GRO via 8015
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- VOCs via 8260 + Oxygenates (See "Comments")

TURNAROUND TIME: [•] NORMAL — RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [•] Email [ ] Fax

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SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*0	*0	*0	*0	*	*	*	*	*
B18-2	1 soil	09/18/17 @ 1508	Soil	Grab	X		X						
B18-3	1 soil	09/18/17 @ 1511	Soil	Grab	X		X						
B18-4	1 soil	09/18/17 @ 1516	Soil	Grab	X		X						
B18-5	1 soil	09/18/17 @ 1521	Soil	Grab	X		X						
B18-6	1 soil	09/18/17 @ 1528	Soil	Grab	X		X	X					
B18-8	1 soil	09/20/17 @ 1447	Soil	Grab	X		X						
B18-9	1 soil	09/20/17 @ 1452	Soil	Grab	X		X						
B18-10	1 soil	09/20/17 @ 1500	Soil	Grab	X		X						
B19-1	1 soil	09/18/17 @ 1545	Soil	Grab	X		X						
B19-2	1 soil	09/18/17 @ 1548	Soil	Grab	X		X						

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 ____ *
*(Use blank for a preservative not listed.)

COMMENTS:
Page 2 of 7

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 2.8 °C ICED? Y ✓ N ____ IR # 1 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

RECD	Date/Time	RECD	Date/Time	RECD	Date/Time
Caleb Hamm	9/22/17 0917	Eric Lassey	9-22-17 1715		9-22-17 1930
Randy Rice	9-22-17 1015				
Destiny Duncan	9-22-17 1230				
CBG	9-22-17 1630				

CHAIN OF CUSTODY RECORD

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

REIC
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3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person Mr. Trev Greene Phone (540) 483-3311
Address 570 Redbud Hill Road City ROCKY MOUNT State VA Zip 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State VIRGINIA Proj ID Chamblissburg Supply - CSVI Sampler AF

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: (•) Email ( ) Fax

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ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- TPH-DRO via 8015
- BTEX, MTBE, Nap via 8021
- VOCs via 8260 + Oxygenates (See "Comments")

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab									
B19-3	1 soil	09/18/17 @ 1552	Soil	Grab	X		X	X					
B19-4	1 soil	09/18/17 @ 1556	Soil	Grab	X		X						
B19-5	1 soil	09/18/17 @ 1559	Soil	Grab	X		X						
B19-6	1 soil	09/18/17 @ 1605	Soil	Grab	X		X	X					
B19-8	1 soil	09/21/17 @ 1430	Soil	Grab	X		X						
B19-9	1 soil	09/21/17 @ 1445	Soil	Grab	X		X						
B19-10	1 soil	09/21/17 @ 1452	Soil	Grab	X		X						
B20-8	1 soil	09/19/17 @ 0943	Soil	Grab	X		X						
B20-10	1 soil	09/19/17 @ 0955	Soil	Grab	X		X						
B21-7	1 soil	09/19/17 @ 1210	Soil	Grab	X		X						

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____ *
* (Use blank for a preservative not listed.)

COMMENTS:
Page 3 of 7

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 3.8 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

REC'D Caleb Hamm	Date/Time 9/22/17 @0917	REC'D [signature]	Date/Time 9/22/17 1725	REC'D	Date/Time 9/22/17 1920
REC'D Randy Roe	Date/Time 9-22-17 1015	REC'D	Date/Time	REC'D	Date/Time
REC'D Destiny Duncan	Date/Time 9-22-17 1230	REC'D	Date/Time	REC'D	Date/Time
REC'D [signature]	Date/Time 9-22-17 1430	REC'D	Date/Time	REC'D	Date/Time

CHAIN OF CUSTODY RECORD

REIC

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v13-0516 REIC USE ONLY CLIENT ID GRE096 DATE ____ SHEET ____

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # ____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) ____
City ____ State ____ Zip ____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

TURNAROUND TIME: [•] NORMAL RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
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Send Results Via: [•] Email [ ] Fax

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ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- TPH-DRO via 8015
- BTEX, MTBE, Nap via 8021
- VOCs via 8260 + Oxygenates (See "Comments")

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*0	*0	*0	*0	*	*	*	*	*
B21-9	1 soil	09/19/17 @ 1220	Soil	Grab	X		X						
B22-8	1 soil	09/19/17 @ 1512	Soil	Grab	X		X						
B22-10	1 soil	09/19/17 @ 1531	Soil	Grab	X		X						
B23-7	1 soil	09/20/17 @ 0935	Soil	Grab	X		X						
B23-9	1 soil	09/20/17 @ 0951	Soil	Grab	X		X						
B24-1	1 soil	09/20/17 @ 1050	Soil	Grab	X	X	X	X					
B24-2	1 soil	09/20/17 @ 1054	Soil	Grab	X	X	X						
B24-3	1 soil	09/20/17 @ 1058	Soil	Grab	X	X	X						
B24-4	1 soil	09/20/17 @ 1106	Soil	Grab	X	X	X						
B24-5	1 soil	09/20/17 @ 1113	Soil	Grab	X	X	X	X					

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 ____ *
* (Use blank for a preservative not listed.)

COMMENTS:
Page 4 of 7

For 8260, include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 3.8 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

RELD	Date/Time	RECD	Date/Time	RELD	Date/Time	RECD	Date/Time
Caleb Harris	9/22/17 @ 09:17	Trev Greene	9-22-17 1725			9-22-17 1930	
Randy Rice	9-22-17 1015						
Destiny Duncan	9-22-17 1230						
[illegible]	9-22-17 1630						

CHAIN OF CUSTODY RECORD

v13-0516 REIC use ONLY — CLIENT ID GRE096 DATE _____ SHEET _____

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304-241-5861

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- TPH-DRO via 8015
- BTEX, MTBE, Nap via 8021
- VOCs via 8260 + Oxygenates (See "Comments")

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: (•) Email ( ) Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab									
B24-7	1 soil	09/20/17 @ 1158	Soil	Grab	X	X	X						
B24-8	1 soil	09/20/17 @ 1214	Soil	Grab	X	X	X						
B24-9	1 soil	09/20/17 @ 1229	Soil	Grab	X	X	X						
B24-10	1 soil	09/20/17 @ 1241	Soil	Grab	X	X	X						
B25-1	1 soil	09/21/17 @ 0825	Soil	Grab	X		X						
B25-2	1 soil	09/21/17 @ 0830	Soil	Grab	X		X						
B25-3	1 soil	09/21/17 @ 0835	Soil	Grab	X		X						
B25-4	1 soil	09/21/17 @ 0840	Soil	Grab	X		X						
B25-5	1 soil	09/21/17 @ 0845	Soil	Grab	X		X						
B25-7	1 soil	09/21/17 @ 0935	Soil	Grab	X		X						

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____*
*(Use blank for a preservative not listed.)

COMMENTS:
Page 5 of 7

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 3.8 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

RELD: Caleb Hirion	Date/Time: 9/22/17 0917	RELD: Eric Dawson	Date/Time: 9-22-17 1125	RELD:	Date/Time: 9-22-17 1930
RECD: Rand Roe	Date/Time: 9-22-17 1015	RECD:	Date/Time:	RECD:	Date/Time:
RELD: Destiny Duncan	Date/Time: 9-22-17 1230	RELD:	Date/Time:	RELD:	Date/Time:
RECD: [illegible]	Date/Time: 9-22-17 1630	RECD:	Date/Time:	RECD:	Date/Time:

CHAIN OF CUSTODY RECORD

REIC

Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- TPH-DRO via 8015
- BTEX, MTBE, Nap via 8021
- VOCs via 8260 + Oxygenates (See "Comments")

TURNAROUND TIME: [•] NORMAL [ ] RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [•] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*a	*c	*a	*a	*	*	*	*	*
					*b	*c	*b	*b	*	*	*	*	*
B25-8	1 soil	09/21/17 @ 0948	Soil	Grab	X		X						
B25-9	1 soil	09/21/17 @ 1012	Soil	Grab	X		X						
B25-10	1 soil	09/21/17 @ 1020	Soil	Grab	X		X						
B26-2	1 soil	09/21/17 @ 1119	Soil	Grab	X		X						
B26-3	1 soil	09/21/17 @ 1122	Soil	Grab	X		X						
B26-4	1 soil	09/21/17 @ 1127	Soil	Grab	X		X						
B26-5	1 soil	09/21/17 @ 1132	Soil	Grab	X		X						
B26-6	1 soil	09/21/17 @ 1213	Soil	Grab	X		X						
B26-7	1 soil	09/21/17 @ 1227	Soil	Grab	X		X						
B26-8	1 soil	09/21/17 @ 1241	Soil	Grab	X		X						

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____ *
*(Use blank for a preservative not listed.)

COMMENTS:
Page 6 of 7

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [•] N

Corrected temp at arrival: 3.8 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [•] REIC [ ] Client Delivered by: [ ] Client [•] REIC [ ] UPS [ ] FedEx [ ] USPS

RELD	Date/Time	RECD	Date/Time	RELD	Date/Time
Chris Hinson	9/22/17 0920	Eric Lewis	9-22-17 1725		9-22-17 1735
Rod Ra	9-22-17 1015				
Dustin Ulmer	9-22-17 1230				
	9-22-17 1630				

CHAIN OF CUSTODY RECORD

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

REIC
Research Environmental & Industrial Consultants, Inc.
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Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: (•) Email ( ) Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- TPH-DRO via 8015
- BTEX, MTBE, Nap via 8021
- VOCs via 8260 + Oxygenates (See "Comments")

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*0	*0	*0	*1	*	*	*	*	*
B26-9	1 soil	09/21/17 @ 1253	Soil	Grab	X		X						
DW03B	4 voa	09/18/17 @ 1115	G Water	Grab				X					
POND01	4 voa	09/18/17 @ 1400	G Water	Grab				X					
POND02	4 voa	09/18/17 @ 1425	G Water	Grab				X					
ST01	4 voa	09/18/17 @ 1455	G Water	Grab				X					

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____ *
*(Use blank for a preservative not listed.)

COMMENTS: Times on containers
Page 7 of 7 9/22

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 3.8 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

REL'D Cathy Honiss	Date/Time 9/22/17 @ 0917	REL'D Eric Lauda	Date/Time 9-22-17 1025	REL'D	Date/Time 9-22-17 1930
REC'D Randy Ross	Date/Time 9-22-17 1015	REC'D	Date/Time	REC'D	Date/Time
REL'D Destiny Duncan	Date/Time 9-22-17 1230	REL'D	Date/Time	REL'D	Date/Time
REC'D [illegible]	Date/Time 9-22-17 1230	REC'D	Date/Time	REC'D	Date/Time

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
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1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Tuesday, October 10, 2017

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY - CSVI

Work Order #: 17100339

Dear Mr. Trev Greene:

REI Consultants, Inc. received 2 sample(s) on 10/3/2017 for the analyses presented in the following report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

REI Consultants, Inc. - Case Narrative

WO#: 17100339

Date Reported: 10/10/2017
Original

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY - CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

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DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 12:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-01A	**Matrix:**	Groundwater
Client Sample ID:	DW10A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	3.40	0.200	1.00	NA	µg/L	10/05/17 2:00PM	10/06/17 6:03PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
DBCP	ND	0.00768	0.0202	0.200	µg/L	10/09/17 9:52AM	10/09/17 1:21PM	PA/VA
EDB	ND	0.00394	0.0202	0.050	µg/L	10/09/17 9:52AM	10/09/17 1:21PM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Acenaphthylene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Anthracene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Benzidine	ND	5.31	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Benzo(a)anthracene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Benzo(a)pyrene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Benzo(b)fluoranthene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Benzo(g,h,i)perylene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Benzo(k)fluoranthene	ND	3.19	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.31	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Butyl benzyl phthalate	ND	5.31	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
4-Chloro-3-methylphenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2-Chloronaphthalene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2-Chlorophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Chrysene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
o-Cresol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
m,p-Cresol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Di-n-butyl phthalate	ND	5.31	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
1,2-Dichlorobenzene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
1,3-Dichlorobenzene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
1,4-Dichlorobenzene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.31	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2,4-Dichlorophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Diethyl phthalate	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Dimethyl phthalate	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 12:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-01A	**Matrix:**	Groundwater
Client Sample ID:	DW10A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2,4-Dinitrophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2,4-Dinitrotoluene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2,6-Dinitrotoluene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Di-n-octyl phthalate	ND	5.31	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
1,2-Diphenylhydrazine	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	
Fluoranthene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Fluorene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Hexachlorobenzene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Hexachlorobutadiene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Hexachlorocyclopentadiene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Hexachloroethane	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Isophorone	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Naphthalene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Nitrobenzene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2-Nitrophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
4-Nitrophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
N-Nitrosodimethylamine	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
N-Nitrosodiphenylamine	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Pentachlorophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Phenanthrene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Phenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Pyrene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	
2,4,5-Trichlorophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
2,4,6-Trichlorophenol	ND	2.12	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 8:39PM	PA/VA
Surr: 2-Fluorophenol	30.9	NA	17.6-120	NA	%Rec	10/06/17 8:35AM	10/06/17 8:39PM	
Surr: Phenol-d5	23.1	NA	11.4-120	NA	%Rec	10/06/17 8:35AM	10/06/17 8:39PM	
Surr: 2,4,6-Tribromophenol	55.2	NA	18-129	NA	%Rec	10/06/17 8:35AM	10/06/17 8:39PM	
Surr: Nitrobenzene-d5	63.7	NA	21.5-122	NA	%Rec	10/06/17 8:35AM	10/06/17 8:39PM	
Surr: 2-Fluorobiphenyl	61.6	NA	23.7-127	NA	%Rec	10/06/17 8:35AM	10/06/17 8:39PM	
Surr: 4-Terphenyl-d14	77.2	NA	39.9-124	NA	%Rec	10/06/17 8:35AM	10/06/17 8:39PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/04/17 3:11PM	10/06/17 10:09PM	PA/VA
Surr: 2,5-Dibromotoluene	95.0	NA	53.5-143	NA	%Rec	10/04/17 3:11PM	10/06/17 10:09PM	

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 12:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-01A	**Matrix:**	Groundwater
Client Sample ID:	DW10A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/05/17 10:02PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 12:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-01A	**Matrix:**	Groundwater
Client Sample ID:	DW10A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/05/17 10:02PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		10/05/17 10:02PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		10/05/17 10:02PM	PA/VA
Surr: 1,2-Dichloroethane-d4	97.9	NA	75.9-132	NA	%Rec		10/05/17 10:02PM	
Surr: 4-Bromofluorobenzene	96.9	NA	73.6-132	NA	%Rec		10/05/17 10:02PM	
Surr: Dibromofluoromethane	96.9	NA	80.1-127	NA	%Rec		10/05/17 10:02PM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/05/17 10:02PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/06/17 6:28PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/06/17 6:28PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/06/17 6:28PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/06/17 6:28PM	PA/VA

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 12:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-01A	**Matrix:**	Groundwater
Client Sample ID:	DW10A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/06/17 6:28PM	
Ethanol	ND	100	200	NA	µg/L		10/06/17 6:28PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/06/17 6:28PM	
Surr: 1,2-Dichloroethane-d4	118	NA	70-130	NA	%Rec		10/06/17 6:28PM	
Surr: 4-Bromofluorobenzene	95.8	NA	70-130	NA	%Rec		10/06/17 6:28PM	
Surr: Dibromofluoromethane	106	NA	70-130	NA	%Rec		10/06/17 6:28PM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/06/17 6:28PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 12:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-01B	**Matrix:**	Groundwater
Client Sample ID:	DW10A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**
Lead	ND	0.200	1.00	NA	µg/L	10/05/17 2:00PM	10/06/17 6:09PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 1:10:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-02A	**Matrix:**	Groundwater
Client Sample ID:	DW15A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**
Lead	5.18	0.200	1.00	NA	µg/L	10/05/17 2:00PM	10/06/17 6:15PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
DBCP	ND	0.00787	0.0207	0.200	µg/L	10/09/17 9:52AM	10/09/17 1:37PM	PA/VA
EDB	ND	0.00404	0.0207	0.050	µg/L	10/09/17 9:52AM	10/09/17 1:37PM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**
Acenaphthene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Acenaphthylene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Anthracene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Benzidine	ND	5.28	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Benzo(a)anthracene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Benzo(a)pyrene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Benzo(b)fluoranthene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Benzo(g,h,i)perylene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Benzo(k)fluoranthene	ND	3.17	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.28	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Butyl benzyl phthalate	ND	5.28	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
4-Chloro-3-methylphenol	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2-Chloronaphthalene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2-Chlorophenol	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Chrysene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
o-Cresol	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
m,p-Cresol	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Di-n-butyl phthalate	ND	5.28	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
1,2-Dichlorobenzene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
1,3-Dichlorobenzene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
1,4-Dichlorobenzene	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.28	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2,4-Dichlorophenol	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Diethyl phthalate	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Dimethyl phthalate	ND	2.11	10.6	NA	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 1:10:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-02A	**Matrix:**	Groundwater
Client Sample ID:	DW15A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2,4-Dinitrophenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2,4-Dinitrotoluene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2,6-Dinitrotoluene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Di-n-octyl phthalate	ND	5.28	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
1,2-Diphenylhydrazine	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	
Fluoranthene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Fluorene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Hexachlorobenzene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Hexachlorobutadiene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Hexachlorocyclopentadiene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Hexachloroethane	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Isophorone	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Naphthalene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Nitrobenzene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2-Nitrophenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
4-Nitrophenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
N-Nitrosodimethylamine	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
N-Nitrosodiphenylamine	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Pentachlorophenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Phenanthrene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Phenol	2.30	2.11	10.6	NA	J	µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Pyrene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	
2,4,5-Trichlorophenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
2,4,6-Trichlorophenol	ND	2.11	10.6	NA		µg/L	10/06/17 8:35AM	10/06/17 9:01PM	PA/VA
Surr: 2-Fluorophenol	35.1	NA	17.6-120	NA		%Rec	10/06/17 8:35AM	10/06/17 9:01PM	
Surr: Phenol-d5	25.3	NA	11.4-120	NA		%Rec	10/06/17 8:35AM	10/06/17 9:01PM	
Surr: 2,4,6-Tribromophenol	59.6	NA	18-129	NA		%Rec	10/06/17 8:35AM	10/06/17 9:01PM	
Surr: Nitrobenzene-d5	66.6	NA	21.5-122	NA		%Rec	10/06/17 8:35AM	10/06/17 9:01PM	
Surr: 2-Fluorobiphenyl	64.5	NA	23.7-127	NA		%Rec	10/06/17 8:35AM	10/06/17 9:01PM	
Surr: 4-Terphenyl-d14	77.6	NA	39.9-124	NA		%Rec	10/06/17 8:35AM	10/06/17 9:01PM	

Notes:

Phenol was detected in the associated Method Blank between the Method Detection Limit and the Practical Quantitiation Limit.

VOLATILE RANGE ORGANICS **Method: SW8015C** **Analyst: CB**

TPH (Gasoline Range: C6 - C10)	ND	250	500	NA		µg/L	10/04/17 3:11PM	10/06/17 10:41PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 1:10:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-02A	**Matrix:**	Groundwater
Client Sample ID:	DW15A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: 2,5-Dibromotoluene	90.7	NA	53.5-143	NA	%Rec	10/04/17 3:11PM	10/06/17 10:41PM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: JM**	
Acetone	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/05/17 10:31PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 1:10:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-02A	**Matrix:**	Groundwater
Client Sample ID:	DW15A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/05/17 10:31PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		10/05/17 10:31PM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		10/05/17 10:31PM	PA/VA
Surr: 1,2-Dichloroethane-d4	102	NA	75.9-132	NA	%Rec		10/05/17 10:31PM	
Surr: 4-Bromofluorobenzene	97.9	NA	73.6-132	NA	%Rec		10/05/17 10:31PM	
Surr: Dibromofluoromethane	98.6	NA	80.1-127	NA	%Rec		10/05/17 10:31PM	
Surr: Toluene-d8	102	NA	72.4-119	NA	%Rec		10/05/17 10:31PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/06/17 7:01PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/06/17 7:01PM	

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 1:10:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-02A	**Matrix:**	Groundwater
Client Sample ID:	DW15A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/06/17 7:01PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/06/17 7:01PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/06/17 7:01PM	
Ethanol	ND	100	200	NA	µg/L		10/06/17 7:01PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/06/17 7:01PM	
Surr: 1,2-Dichloroethane-d4	119	NA	70-130	NA	%Rec		10/06/17 7:01PM	
Surr: 4-Bromofluorobenzene	97.0	NA	70-130	NA	%Rec		10/06/17 7:01PM	
Surr: Dibromofluoromethane	108	NA	70-130	NA	%Rec		10/06/17 7:01PM	
Surr: Toluene-d8	102	NA	70-130	NA	%Rec		10/06/17 7:01PM	

REI Consultants, Inc. - Analytical Report

WO#: 17100339

Date Reported: 10/10/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/3/2017 1:10:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	10/3/2017
Lab ID:	17100339-02B	**Matrix:**	Groundwater
Client Sample ID:	DW15A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	1.62	0.200	1.00	NA	µg/L	10/05/17 2:00PM	10/06/17 6:20PM	PA/VA

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**17100339**
RCPNo:	**1**	Date and Time Received:	**10/3/2017 8:35:00 PM**	Received by:	**Matt Vess**
Completed By:	**Amanda Wilkins**		Reviewed By:	**Billy Shirley**	
Completed Date:	**10/4/2017 11:16:57 AM**		Reviewed Date:	**10/4/2017 2:03 PM**	

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 1.6 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [ ]	No [ ]	No Vials [x]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **17100339**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN OF CUSTODY RECORD

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

17100339
GREENE ENVIRONMENTAL SERVICES, LLC
GRE096
Billy Shirley

REIC Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

TURNAROUND TIME: [x] NORMAL
RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [x] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- VOCs via 8260 + Oxygenates (See "Comments")
- SVOCs via 8270
- EDB/DBCP via 8011
- Total Lead via 200.8
- Dissolved Lead via 200.8

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1	1	2	1	2	2			
DW10A	0.40mL, 3 L, 2.200mL	10/03/17 @ 1230	G Water	Grab	X	X	X	X	X	X			
DW15A	0.40mL, 1 L, 2.200mL	10/03/17 @ 1310	G Water	Grab	X	X	X	X	X	X			

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____*
* (Use blank for a preservative not listed.)

COMMENTS:
For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 1.6 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

REC'D [signature]	Date/Time 10-3-17 1115	REC'D Eric Lawson	Date/Time 10-3-17 1835	REC'D	Date/Time 10-3-17 2036
REC'D [signature]	Date/Time 10-3-17 1210	REC'D	Date/Time	REC'D	Date/Time
REC'D Destiny Duncan	Date/Time 10-3-17 1249	REC'D	Date/Time	REC'D	Date/Time
REC'D Destiny Duncan	Date/Time 10-3-17 1711	REC'D	Date/Time	REC'D	Date/Time

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Thursday, November 30, 2017

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY-CSVI

Work Order #: 17101663

Dear Mr. Trev Greene:

REI Consultants, Inc. received 35 sample(s) on 10/12/2017 for the analyses presented in the following report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

REI Consultants, Inc. - Case Narrative

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY-CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

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DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-01A	**Matrix:**	Groundwater
Client Sample ID:	MW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	20.3	0.200	1.00	NA		µg/L	10/17/17 2:00PM	10/18/17 4:13PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00751	0.0198	0.200		µg/L	10/18/17 9:52AM	10/18/17 8:35PM	PA/VA
1,2-Dibromoethane	2.32	0.00386	0.0198	0.050	X	µg/L	10/18/17 9:52AM	10/18/17 8:35PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Acenaphthylene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Anthracene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Benzidine	ND	5.37	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Benzo(a)anthracene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Benzo(a)pyrene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Benzo(b)fluoranthene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Benzo(g,h,i)perylene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Benzo(k)fluoranthene	ND	3.22	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.37	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Butyl benzyl phthalate	ND	5.37	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
4-Chloro-3-methylphenol	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2-Chloronaphthalene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2-Chlorophenol	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Chrysene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
o-Cresol	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
m,p-Cresol	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Di-n-butyl phthalate	ND	5.37	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
1,2-Dichlorobenzene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
1,3-Dichlorobenzene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
1,4-Dichlorobenzene	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.37	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2,4-Dichlorophenol	ND	2.15	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Diethyl phthalate	ND	5.37	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-01A	**Matrix:**	Groundwater
Client Sample ID:	MW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.37	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2,4-Dimethylphenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2,4-Dinitrophenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2,4-Dinitrotoluene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2,6-Dinitrotoluene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Di-n-octyl phthalate	ND	5.37	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
1,2-Diphenylhydrazine	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	
Fluoranthene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Fluorene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Hexachlorobenzene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Hexachlorobutadiene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Hexachlorocyclopentadiene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Hexachloroethane	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Isophorone	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Naphthalene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Nitrobenzene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2-Nitrophenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
4-Nitrophenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
N-Nitrosodimethylamine	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
N-Nitrosodiphenylamine	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Pentachlorophenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Phenanthrene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Phenol	ND	5.37	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Pyrene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	
2,4,5-Trichlorophenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
2,4,6-Trichlorophenol	ND	2.15	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 12:05PM	PA/VA
Surr: 2-Fluorophenol	39.0	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 12:05PM	
Surr: Phenol-d5	32.6	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 12:05PM	
Surr: 2,4,6-Tribromophenol	71.8	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 12:05PM	
Surr: Nitrobenzene-d5	74.6	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 12:05PM	
Surr: 2-Fluorobiphenyl	70.5	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 12:05PM	
Surr: 4-Terphenyl-d14	81.6	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 12:05PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	1,620	250	500	NA	µg/L	10/13/17 12:37PM	10/14/17 9:59AM	PA/VA
Surr: 2,5-Dibromotoluene	107	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/14/17 9:59AM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-01A	**Matrix:**	Groundwater
Client Sample ID:	MW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	5.19	0.500	1.00	NA	µg/L		10/19/17 7:01PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/19/17 7:01PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/19/17 7:01PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/19/17 7:01PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Bromodichloromethane	20.4	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/19/17 7:01PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/19/17 7:01PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Chloroform	176	5.00	10.0	NA	µg/L		10/24/17 4:59PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Dibromochloromethane	1.20	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,2-Dibromoethane	3.23	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/19/17 7:01PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-01A	**Matrix:**	Groundwater
Client Sample ID:	MW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Ethylbenzene	0.820	0.500	1.00	NA	J	µg/L		10/19/17 7:01PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		10/19/17 7:01PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		10/19/17 7:01PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
4-Methyl-2-pentanone	157	5.00	10.0	NA		µg/L		10/19/17 7:01PM	PA/VA
Methyl tert-butyl ether	58.2	1.00	5.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Naphthalene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Tetrachloroethene	0.820	0.500	1.00	NA	J	µg/L		10/19/17 7:01PM	PA/VA
Toluene	0.900	0.500	1.00	NA	J	µg/L		10/19/17 7:01PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
1,2,4-Trimethylbenzene	0.920	0.500	1.00	NA	J	µg/L		10/19/17 7:01PM	PA/VA
1,3,5-Trimethylbenzene	4.45	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		10/19/17 7:01PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		10/19/17 7:01PM	PA/VA
Surr: 1,2-Dichloroethane-d4	118	NA	75.9-132	NA		%Rec		10/19/17 7:01PM	
Surr: 4-Bromofluorobenzene	105	NA	73.6-132	NA		%Rec		10/19/17 7:01PM	
Surr: Dibromofluoromethane	99.9	NA	80.1-127	NA		%Rec		10/19/17 7:01PM	
Surr: Toluene-d8	95.5	NA	72.4-119	NA		%Rec		10/19/17 7:01PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		10/24/17 12:34PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		10/24/17 12:34PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		10/24/17 12:34PM	
tert-Butyl alcohol	2,180	100	200	NA		µg/L		10/24/17 12:34PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		10/24/17 12:34PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-01A	**Matrix:**	Groundwater
Client Sample ID:	MW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA		µg/L		10/24/17 12:34PM	PA/VA
Isopropyl ether	4.53	2.50	5.00	NA	J	µg/L		10/24/17 12:34PM	
Surr: 1,2-Dichloroethane-d4	121	NA	70-130	NA		%Rec		10/24/17 12:34PM	
Surr: 4-Bromofluorobenzene	118	NA	70-130	NA		%Rec		10/24/17 12:34PM	
Surr: Dibromofluoromethane	105	NA	70-130	NA		%Rec		10/24/17 12:34PM	
Surr: Toluene-d8	96.6	NA	70-130	NA		%Rec		10/24/17 12:34PM	

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-01B	**Matrix:**	Groundwater
Client Sample ID:	MW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/17/17 2:00PM	10/18/17 4:19PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-02A	**Matrix:**	Groundwater
Client Sample ID:	MW02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	220	2.00	10.0	NA		µg/L	10/17/17 12:00PM	10/18/17 5:35PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.394	1.04	0.200		µg/L	10/24/17 8:30AM	10/24/17 12:18PM	PA/VA
1,2-Dibromoethane	50.7	0.202	1.04	0.050	X	µg/L	10/24/17 8:30AM	10/24/17 12:18PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Acenaphthylene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Anthracene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Benzidine	ND	5.64	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Benzo(a)anthracene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Benzo(a)pyrene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Benzo(b)fluoranthene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Benzo(g,h,i)perylene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Benzo(k)fluoranthene	ND	3.38	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.64	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Butyl benzyl phthalate	ND	5.64	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
4-Chloro-3-methylphenol	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2-Chloronaphthalene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2-Chlorophenol	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Chrysene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
o-Cresol	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
m,p-Cresol	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Di-n-butyl phthalate	ND	5.64	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
1,2-Dichlorobenzene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
1,3-Dichlorobenzene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
1,4-Dichlorobenzene	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.64	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2,4-Dichlorophenol	ND	2.26	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Diethyl phthalate	ND	5.64	11.3	NA		µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-02A	**Matrix:**	Groundwater
Client Sample ID:	MW02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.64	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2,4-Dimethylphenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2,4-Dinitrophenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2,4-Dinitrotoluene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2,6-Dinitrotoluene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Di-n-octyl phthalate	ND	5.64	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
1,2-Diphenylhydrazine	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	
Fluoranthene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Fluorene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Hexachlorobenzene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Hexachlorobutadiene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Hexachlorocyclopentadiene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Hexachloroethane	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Isophorone	18.5	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Naphthalene	30.1	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Nitrobenzene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2-Nitrophenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
4-Nitrophenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
N-Nitrosodimethylamine	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
N-Nitrosodiphenylamine	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Pentachlorophenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Phenanthrene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Phenol	ND	5.64	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Pyrene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	
2,4,5-Trichlorophenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
2,4,6-Trichlorophenol	ND	2.26	11.3	NA	µg/L	10/16/17 7:55AM	10/17/17 12:27PM	PA/VA
Surr: 2-Fluorophenol	39.1	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 12:27PM	
Surr: Phenol-d5	36.0	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 12:27PM	
Surr: 2,4,6-Tribromophenol	68.8	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 12:27PM	
Surr: Nitrobenzene-d5	81.2	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 12:27PM	
Surr: 2-Fluorobiphenyl	59.1	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 12:27PM	
Surr: 4-Terphenyl-d14	76.4	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 12:27PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	7,920	250	500	NA	µg/L	10/13/17 12:37PM	10/14/17 10:30AM	PA/VA
Surr: 2,5-Dibromotoluene	109	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/14/17 10:30AM	

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-02A	**Matrix:**	Groundwater
Client Sample ID:	MW02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	534.5	50.0	100	NA		µg/L		10/24/17 5:32PM	
Acetone	ND	50.0	100	NA		µg/L		10/19/17 8:07PM	PA/VA
Acrolein	ND	50.0	100	NA		µg/L		10/19/17 8:07PM	PA/VA
Acrylonitrile	ND	50.0	100	NA		µg/L		10/19/17 8:07PM	PA/VA
Benzene	25.8	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Bromobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Bromochloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Bromodichloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Bromoform	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Bromomethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
2-Butanone	ND	50.0	100	NA		µg/L		10/19/17 8:07PM	PA/VA
n-Butylbenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
sec-Butylbenzene	5.30	5.00	10.0	NA	J	µg/L		10/19/17 8:07PM	PA/VA
tert-Butylbenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Carbon disulfide	ND	25.0	50.0	NA		µg/L		10/19/17 8:07PM	
Carbon tetrachloride	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Chlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Chloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Chloroform	37.8	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Chloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
2-Chlorotoluene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
4-Chlorotoluene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Dibromochloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2-Dibromoethane	88.8	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Dibromomethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2-Dichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,3-Dichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,4-Dichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Dichlorodifluoromethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,1-Dichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2-Dichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,1-Dichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
cis-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
trans-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,3-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
2,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,1-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA

REI Consultants, Inc. - Analytical Report

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-02A	**Matrix:**	Groundwater
Client Sample ID:	MW02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
trans-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Ethylbenzene	20.1	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Hexachlorobutadiene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
2-Hexanone	ND	50.0	100	NA		µg/L		10/19/17 8:07PM	PA/VA
Iodomethane	ND	50.0	100	NA		µg/L		10/19/17 8:07PM	PA/VA
Isopropylbenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
4-Isopropyltoluene	9.30	5.00	10.0	NA	J	µg/L		10/19/17 8:07PM	PA/VA
Methylene chloride	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
4-Methyl-2-pentanone	56.1	50.0	100	NA	J	µg/L		10/19/17 8:07PM	PA/VA
Methyl tert-butyl ether	553	10.0	50.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Naphthalene	74.9	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
n-Propylbenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Styrene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Tetrachloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Toluene	157	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2,3-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2,4-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,1,1-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,1,2-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Trichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Trichlorofluoromethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2,3-Trichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,2,4-Trimethylbenzene	83.2	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
1,3,5-Trimethylbenzene	153	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Vinyl acetate	ND	50.0	100	NA		µg/L		10/19/17 8:07PM	PA/VA
Vinyl chloride	ND	5.00	10.0	NA		µg/L		10/19/17 8:07PM	PA/VA
Surr: 1,2-Dichloroethane-d4	118	NA	75.9-132	NA		%Rec		10/19/17 8:07PM	
Surr: 4-Bromofluorobenzene	106	NA	73.6-132	NA		%Rec		10/19/17 8:07PM	
Surr: Dibromofluoromethane	97.1	NA	80.1-127	NA		%Rec		10/19/17 8:07PM	
Surr: Toluene-d8	96.9	NA	72.4-119	NA		%Rec		10/19/17 8:07PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	5.00	10.0	NA		µg/L		10/24/17 1:08PM	
tert-Amyl Ethyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 1:08PM	
tert-Amyl Methyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 1:08PM	
tert-Butyl alcohol	2,030	1,000	2,000	NA		µg/L		10/24/17 1:08PM	PA/VA
tert-Butyl Ethyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 1:08PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-02A	**Matrix:**	Groundwater
Client Sample ID:	MW02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	1,000	2,000	NA	µg/L		10/24/17 1:08PM	PA/VA
Isopropyl ether	ND	25.0	50.0	NA	µg/L		10/24/17 1:08PM	
Surr: 1,2-Dichloroethane-d4	116	NA	70-130	NA	%Rec		10/24/17 1:08PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/24/17 1:08PM	
Surr: Dibromofluoromethane	101	NA	70-130	NA	%Rec		10/24/17 1:08PM	
Surr: Toluene-d8	97.7	NA	70-130	NA	%Rec		10/24/17 1:08PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-02B	**Matrix:**	Groundwater
Client Sample ID:	MW02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/17/17 12:00PM	10/18/17 6:04PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-03A	**Matrix:**	Groundwater
Client Sample ID:	MW03	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	333	2.00	10.0	NA		µg/L	10/17/17 12:00PM	10/18/17 6:10PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	3.93	10.4	0.200		µg/L	10/24/17 8:30AM	10/24/17 12:34PM	PA/VA
1,2-Dibromoethane	161	2.02	10.4	0.050	X	µg/L	10/24/17 8:30AM	10/24/17 12:34PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Acenaphthylene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Anthracene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Benzidine	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Benzo(a)anthracene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Benzo(a)pyrene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Benzo(b)fluoranthene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Benzo(g,h,i)perylene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Benzo(k)fluoranthene	ND	3.41	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Butyl benzyl phthalate	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
4-Chloro-3-methylphenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2-Chloronaphthalene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2-Chlorophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Chrysene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
o-Cresol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
m,p-Cresol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Di-n-butyl phthalate	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
1,2-Dichlorobenzene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
1,3-Dichlorobenzene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
1,4-Dichlorobenzene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2,4-Dichlorophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Diethyl phthalate	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-03A	**Matrix:**	Groundwater
Client Sample ID:	MW03	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2,4-Dimethylphenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2,4-Dinitrophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2,4-Dinitrotoluene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2,6-Dinitrotoluene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Di-n-octyl phthalate	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
1,2-Diphenylhydrazine	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	
Fluoranthene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Fluorene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Hexachlorobenzene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Hexachlorobutadiene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Hexachlorocyclopentadiene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Hexachloroethane	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Isophorone	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Naphthalene	458	22.8	114	NA		µg/L	10/16/17 7:55AM	10/23/17 12:23PM	PA/VA
Nitrobenzene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2-Nitrophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
4-Nitrophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
N-Nitrosodimethylamine	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
N-Nitrosodiphenylamine	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Pentachlorophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Phenanthrene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Phenol	ND	5.69	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Pyrene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	
2,4,5-Trichlorophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
2,4,6-Trichlorophenol	ND	2.28	11.4	NA		µg/L	10/16/17 7:55AM	10/17/17 12:48PM	PA/VA
Surr: 2-Fluorophenol	26.5	NA	17.6-120	NA		%Rec	10/16/17 7:55AM	10/17/17 12:48PM	
Surr: Phenol-d5	1.42	NA	11.4-120	NA	S	%Rec	10/16/17 7:55AM	10/17/17 12:48PM	
Surr: 2,4,6-Tribromophenol	64.8	NA	18-129	NA		%Rec	10/16/17 7:55AM	10/17/17 12:48PM	
Surr: Nitrobenzene-d5	120	NA	21.5-122	NA		%Rec	10/16/17 7:55AM	10/17/17 12:48PM	
Surr: 2-Fluorobiphenyl	53.0	NA	23.7-127	NA		%Rec	10/16/17 7:55AM	10/17/17 12:48PM	
Surr: 4-Terphenyl-d14	69.0	NA	39.9-124	NA		%Rec	10/16/17 7:55AM	10/17/17 12:48PM	

VOLATILE RANGE ORGANICS **Method: SW8015C** **Analyst: CB**

TPH (Gasoline Range: C6 - C10)	302,000	25,000	50,000	NA		µg/L	10/13/17 12:37PM	10/19/17 4:02AM	PA/VA
Surr: 2,5-Dibromotoluene	93.1	NA	53.5-143	NA		%Rec	10/13/17 12:37PM	10/19/17 4:02AM	

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WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-03A	**Matrix:**	Groundwater
Client Sample ID:	MW03	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	18,400	500	1,000	NA	µg/L		10/25/17 6:31PM	
Acetone	21,300	500	1,000	NA	µg/L		10/24/17 6:05PM	PA/VA
Acrolein	ND	50.0	100	NA	µg/L		10/19/17 8:40PM	PA/VA
Acrylonitrile	ND	50.0	100	NA	µg/L		10/19/17 8:40PM	PA/VA
Benzene	6,950	500	1,000	NA	µg/L		10/25/17 6:31PM	PA/VA
Bromobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Bromochloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Bromodichloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Bromoform	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Bromomethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
2-Butanone	7,910	500	1,000	NA	µg/L		10/24/17 6:05PM	PA/VA
n-Butylbenzene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
sec-Butylbenzene	23.0	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
tert-Butylbenzene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Carbon disulfide	ND	25.0	50.0	NA	µg/L		10/19/17 8:40PM	
Carbon tetrachloride	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Chlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Chloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Chloroform	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Chloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
2-Chlorotoluene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
4-Chlorotoluene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Dibromochloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,2-Dibromoethane	343	50.0	100	NA	µg/L		10/24/17 6:05PM	PA/VA
Dibromomethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,2-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,3-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,4-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
Dichlorodifluoromethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,1-Dichloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,2-Dichloroethane	819	50.0	100	NA	µg/L		10/24/17 6:05PM	PA/VA
1,1-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
cis-1,2-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
trans-1,2-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,2-Dichloropropane	22.5	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,3-Dichloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
2,2-Dichloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA
1,1-Dichloropropene	ND	5.00	10.0	NA	µg/L		10/19/17 8:40PM	PA/VA

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-03A	**Matrix:**	Groundwater
Client Sample ID:	MW03	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
trans-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
Ethylbenzene	3,790	500	1,000	NA		µg/L		10/25/17 6:31PM	PA/VA
Hexachlorobutadiene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
2-Hexanone	ND	50.0	100	NA		µg/L		10/19/17 8:40PM	PA/VA
Iodomethane	ND	50.0	100	NA		µg/L		10/19/17 8:40PM	PA/VA
Isopropylbenzene	203	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
4-Isopropyltoluene	52.1	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
Methylene chloride	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
4-Methyl-2-pentanone	455	50.0	100	NA		µg/L		10/19/17 8:40PM	PA/VA
Methyl tert-butyl ether	7,510	100	500	NA		µg/L		10/24/17 6:05PM	PA/VA
Naphthalene	999	50.0	100	NA		µg/L		10/24/17 6:05PM	PA/VA
n-Propylbenzene	501	50.0	100	NA		µg/L		10/24/17 6:05PM	PA/VA
Styrene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
Tetrachloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
Toluene	29,900	500	1,000	NA	E	µg/L		10/25/17 6:31PM	PA/VA
1,2,3-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
1,2,4-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
1,1,1-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
1,1,2-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
Trichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
Trichlorofluoromethane	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
1,2,3-Trichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
1,2,4-Trimethylbenzene	2,650	500	1,000	NA		µg/L		10/25/17 6:31PM	PA/VA
1,3,5-Trimethylbenzene	863	50.0	100	NA		µg/L		10/24/17 6:05PM	PA/VA
Vinyl acetate	ND	50.0	100	NA		µg/L		10/19/17 8:40PM	PA/VA
Vinyl chloride	ND	5.00	10.0	NA		µg/L		10/19/17 8:40PM	PA/VA
Surr: 1,2-Dichloroethane-d4	167	NA	75.9-132	NA	S	%Rec		10/19/17 8:40PM	
Surr: 4-Bromofluorobenzene	114	NA	73.6-132	NA		%Rec		10/19/17 8:40PM	
Surr: Dibromofluoromethane	88.8	NA	80.1-127	NA		%Rec		10/19/17 8:40PM	
Surr: Toluene-d8	93.9	NA	72.4-119	NA		%Rec		10/19/17 8:40PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	5.00	10.0	NA		µg/L		10/24/17 1:41PM	
tert-Amyl Ethyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 1:41PM	
tert-Amyl Methyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 1:41PM	
tert-Butyl alcohol	8,790	1,000	2,000	NA		µg/L		10/24/17 1:41PM	PA/VA
tert-Butyl Ethyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 1:41PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-03A	**Matrix:**	Groundwater
Client Sample ID:	MW03	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	1,000	2,000	NA		µg/L		10/24/17 1:41PM	PA/VA
Isopropyl ether	136	25.0	50.0	NA		µg/L		10/24/17 1:41PM	
Surr: 1,2-Dichloroethane-d4	165	NA	70-130	NA	S	%Rec		10/24/17 1:41PM	
Surr: 4-Bromofluorobenzene	110	NA	70-130	NA		%Rec		10/24/17 1:41PM	
Surr: Dibromofluoromethane	93.5	NA	70-130	NA		%Rec		10/24/17 1:41PM	
Surr: Toluene-d8	93.6	NA	70-130	NA		%Rec		10/24/17 1:41PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-03B	**Matrix:**	Groundwater
Client Sample ID:	MW03	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	13.9	0.200	1.00	NA	µg/L	10/17/17 12:00PM	10/18/17 6:16PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-04A	**Matrix:**	Groundwater
Client Sample ID:	MW04	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	594	2.00	10.0	NA		µg/L	10/17/17 12:00PM	10/18/17 6:22PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	3.76	9.91	0.200		µg/L	10/24/17 8:30AM	10/24/17 12:50PM	PA/VA
1,2-Dibromoethane	656	1.93	9.91	0.050	X	µg/L	10/24/17 8:30AM	10/24/17 12:50PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.
Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Acenaphthylene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Anthracene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Benzidine	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Benzo(a)anthracene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Benzo(a)pyrene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Benzo(b)fluoranthene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Benzo(g,h,i)perylene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Benzo(k)fluoranthene	ND	3.54	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Butyl benzyl phthalate	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
4-Chloro-3-methylphenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2-Chloronaphthalene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2-Chlorophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Chrysene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
o-Cresol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
m,p-Cresol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Di-n-butyl phthalate	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
1,2-Dichlorobenzene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
1,3-Dichlorobenzene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
1,4-Dichlorobenzene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2,4-Dichlorophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-04A	**Matrix:**	Groundwater
Client Sample ID:	MW04	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Diethyl phthalate	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Dimethyl phthalate	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2,4-Dimethylphenol	1,260	47.3	236	NA		µg/L	10/16/17 7:55AM	10/23/17 12:45PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2,4-Dinitrophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2,4-Dinitrotoluene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2,6-Dinitrotoluene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Di-n-octyl phthalate	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
1,2-Diphenylhydrazine	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	
Fluoranthene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Fluorene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Hexachlorobenzene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Hexachlorobutadiene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Hexachlorocyclopentadiene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Hexachloroethane	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Isophorone	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Naphthalene	492	47.3	236	NA		µg/L	10/16/17 7:55AM	10/23/17 12:45PM	PA/VA
Nitrobenzene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2-Nitrophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
4-Nitrophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
N-Nitrosodimethylamine	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
N-Nitrosodiphenylamine	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Pentachlorophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Phenanthrene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Phenol	ND	5.91	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Pyrene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	
2,4,5-Trichlorophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
2,4,6-Trichlorophenol	ND	2.36	11.8	NA		µg/L	10/16/17 7:55AM	10/17/17 1:10PM	PA/VA
Surr: 2-Fluorophenol	1.42	NA	17.6-120	NA	S	%Rec	10/16/17 7:55AM	10/17/17 1:10PM	
Surr: Phenol-d5	35.6	NA	11.4-120	NA		%Rec	10/16/17 7:55AM	10/17/17 1:10PM	
Surr: 2,4,6-Tribromophenol	69.1	NA	18-129	NA		%Rec	10/16/17 7:55AM	10/17/17 1:10PM	
Surr: Nitrobenzene-d5	227	NA	21.5-122	NA	S	%Rec	10/16/17 7:55AM	10/17/17 1:10PM	
Surr: 2-Fluorobiphenyl	42.3	NA	23.7-127	NA		%Rec	10/16/17 7:55AM	10/17/17 1:10PM	
Surr: 4-Terphenyl-d14	72.0	NA	39.9-124	NA		%Rec	10/16/17 7:55AM	10/17/17 1:10PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	356,000	25,000	50,000	NA		µg/L	10/13/17 12:37PM	10/19/17 4:34AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-04A	**Matrix:**	Groundwater
Client Sample ID:	MW04	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: 2,5-Dibromotoluene	94.1	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/19/17 4:34AM	
VOLATILE ORGANIC COMPOUNDS-8260			**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	18,300	500	1,000	NA	µg/L		10/25/17 7:04PM	
Acetone	42,300	5,000	10,000	NA	µg/L		10/25/17 7:04PM	PA/VA
Acrolein	ND	50.0	100	NA	µg/L		10/19/17 9:13PM	PA/VA
Acrylonitrile	ND	50.0	100	NA	µg/L		10/19/17 9:13PM	PA/VA
Benzene	18,500	500	1,000	NA	µg/L		10/25/17 7:04PM	PA/VA
Bromobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Bromochloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Bromodichloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Bromoform	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Bromomethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
2-Butanone	14,700	5,000	10,000	NA	µg/L		10/25/17 7:04PM	PA/VA
n-Butylbenzene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
sec-Butylbenzene	25.1	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
tert-Butylbenzene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Carbon disulfide	ND	25.0	50.0	NA	µg/L		10/19/17 9:13PM	
Carbon tetrachloride	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Chlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Chloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Chloroform	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Chloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
2-Chlorotoluene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
4-Chlorotoluene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Dibromochloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,2-Dibromoethane	1,010	50.0	100	NA	µg/L		10/24/17 6:38PM	PA/VA
Dibromomethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,2-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,3-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,4-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
Dichlorodifluoromethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,1-Dichloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,2-Dichloroethane	1,400	500	1,000	NA	µg/L		10/25/17 7:04PM	PA/VA
1,1-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
cis-1,2-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
trans-1,2-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,2-Dichloropropane	36.5	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA
1,3-Dichloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 9:13PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-04A	**Matrix:**	Groundwater
Client Sample ID:	MW04	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
2,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,1-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
cis-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
trans-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
Ethylbenzene	3,880	500	1,000	NA		µg/L		10/25/17 7:04PM	PA/VA
Hexachlorobutadiene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
2-Hexanone	1,770	50.0	100	NA		µg/L		10/19/17 9:13PM	PA/VA
Iodomethane	ND	50.0	100	NA		µg/L		10/19/17 9:13PM	PA/VA
Isopropylbenzene	198	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
4-Isopropyltoluene	57.9	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
Methylene chloride	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
4-Methyl-2-pentanone	ND	50.0	100	NA		µg/L		10/19/17 9:13PM	PA/VA
Methyl tert-butyl ether	12,700	1,000	5,000	NA		µg/L		10/25/17 7:04PM	PA/VA
Naphthalene	1,730	50.0	100	NA		µg/L		10/24/17 6:38PM	PA/VA
n-Propylbenzene	891	50.0	100	NA		µg/L		10/24/17 6:38PM	PA/VA
Styrene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
Tetrachloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
Toluene	53,700	500	1,000	NA	E	µg/L		10/25/17 7:04PM	PA/VA
1,2,3-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,2,4-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,1,1-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,1,2-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
Trichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
Trichlorofluoromethane	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,2,3-Trichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
1,2,4-Trimethylbenzene	2,660	500	1,000	NA		µg/L		10/25/17 7:04PM	PA/VA
1,3,5-Trimethylbenzene	1,520	50.0	100	NA		µg/L		10/24/17 6:38PM	PA/VA
Vinyl acetate	ND	50.0	100	NA		µg/L		10/19/17 9:13PM	PA/VA
Vinyl chloride	ND	5.00	10.0	NA		µg/L		10/19/17 9:13PM	PA/VA
Surr: 1,2-Dichloroethane-d4	202	NA	75.9-132	NA	S	%Rec		10/19/17 9:13PM	
Surr: 4-Bromofluorobenzene	105	NA	73.6-132	NA		%Rec		10/19/17 9:13PM	
Surr: Dibromofluoromethane	88.3	NA	80.1-127	NA		%Rec		10/19/17 9:13PM	
Surr: Toluene-d8	95.5	NA	72.4-119	NA		%Rec		10/19/17 9:13PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**					**Analyst: JM**	
tert-Amyl alcohol	ND	5.00	10.0	NA		µg/L		10/24/17 2:14PM	
tert-Amyl Ethyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 2:14PM	
tert-Amyl Methyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 2:14PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-04A	**Matrix:**	Groundwater
Client Sample ID:	MW04	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Butyl alcohol	10,900	1,000	2,000	NA		µg/L		10/24/17 2:14PM	PA/VA
tert-Butyl Ethyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 2:14PM	
Ethanol	ND	1,000	2,000	NA		µg/L		10/24/17 2:14PM	PA/VA
Isopropyl ether	273	25.0	50.0	NA		µg/L		10/24/17 2:14PM	
Surr: 1,2-Dichloroethane-d4	183	NA	70-130	NA	S	%Rec		10/24/17 2:14PM	
Surr: 4-Bromofluorobenzene	108	NA	70-130	NA		%Rec		10/24/17 2:14PM	
Surr: Dibromofluoromethane	88.0	NA	70-130	NA		%Rec		10/24/17 2:14PM	
Surr: Toluene-d8	97.5	NA	70-130	NA		%Rec		10/24/17 2:14PM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-04B	**Matrix:**	Groundwater
Client Sample ID:	MW04	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	502	2.00	10.0	NA	µg/L	10/17/17 12:00PM	10/19/17 1:39PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-05A	**Matrix:**	Groundwater
Client Sample ID:	MW05	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	19.2	0.200	1.00	NA	µg/L	10/17/17 2:00PM	10/18/17 4:25PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00754	0.0198	0.200	µg/L	10/18/17 9:52AM	10/18/17 9:39PM	PA/VA
1,2-Dibromoethane	ND	496	992	0.050	µg/L	10/18/17 9:52AM	10/18/17 9:39PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Acenaphthylene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Anthracene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Benzidine	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Benzo(a)anthracene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Benzo(a)pyrene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Benzo(b)fluoranthene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Benzo(g,h,i)perylene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Benzo(k)fluoranthene	ND	3.35	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Butyl benzyl phthalate	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
4-Chloro-3-methylphenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2-Chloronaphthalene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2-Chlorophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Chrysene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
o-Cresol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
m,p-Cresol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Di-n-butyl phthalate	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
1,2-Dichlorobenzene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
1,3-Dichlorobenzene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
1,4-Dichlorobenzene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2,4-Dichlorophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Diethyl phthalate	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-05A	**Matrix:**	Groundwater
Client Sample ID:	MW05	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2,4-Dimethylphenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2,4-Dinitrophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2,4-Dinitrotoluene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2,6-Dinitrotoluene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Di-n-octyl phthalate	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
1,2-Diphenylhydrazine	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	
Fluoranthene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Fluorene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Hexachlorobenzene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Hexachlorobutadiene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Hexachlorocyclopentadiene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Hexachloroethane	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Isophorone	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Naphthalene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Nitrobenzene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2-Nitrophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
4-Nitrophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
N-Nitrosodimethylamine	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
N-Nitrosodiphenylamine	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Pentachlorophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Phenanthrene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Phenol	ND	5.58	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Pyrene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	
2,4,5-Trichlorophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
2,4,6-Trichlorophenol	ND	2.23	11.2	NA	µg/L	10/16/17 7:55AM	10/17/17 1:32PM	PA/VA
Surr: 2-Fluorophenol	37.7	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 1:32PM	
Surr: Phenol-d5	28.0	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 1:32PM	
Surr: 2,4,6-Tribromophenol	66.7	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 1:32PM	
Surr: Nitrobenzene-d5	64.8	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 1:32PM	
Surr: 2-Fluorobiphenyl	66.7	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 1:32PM	
Surr: 4-Terphenyl-d14	74.0	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 1:32PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/18/17 9:11PM	PA/VA
Surr: 2,5-Dibromotoluene	124	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/18/17 9:11PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-05A	**Matrix:**	Groundwater
Client Sample ID:	MW05	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/23/17 12:28PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-05A	**Matrix:**	Groundwater
Client Sample ID:	MW05	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/23/17 12:28PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	75.9-132	NA	%Rec		10/23/17 12:28PM	
Surr: 4-Bromofluorobenzene	104	NA	73.6-132	NA	%Rec		10/23/17 12:28PM	
Surr: Dibromofluoromethane	97.0	NA	80.1-127	NA	%Rec		10/23/17 12:28PM	
Surr: Toluene-d8	97.8	NA	72.4-119	NA	%Rec		10/23/17 12:28PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/23/17 12:28PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 12:28PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-05A	**Matrix:**	Groundwater
Client Sample ID:	MW05	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/23/17 12:28PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/23/17 12:28PM	
Surr: 1,2-Dichloroethane-d4	102	NA	70-130	NA	%Rec		10/23/17 12:28PM	
Surr: 4-Bromofluorobenzene	93.7	NA	70-130	NA	%Rec		10/23/17 12:28PM	
Surr: Dibromofluoromethane	100	NA	70-130	NA	%Rec		10/23/17 12:28PM	
Surr: Toluene-d8	99.7	NA	70-130	NA	%Rec		10/23/17 12:28PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-05B	**Matrix:**	Groundwater
Client Sample ID:	MW05	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	ND	0.200	1.00	NA		µg/L	10/17/17 2:00PM	10/18/17 4:31PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-06A	**Matrix:**	Groundwater
Client Sample ID:	MW06	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	1.96	0.200	1.00	NA	µg/L	10/17/17 2:00PM	10/18/17 4:48PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00747	0.0197	0.200	µg/L	10/18/17 9:52AM	10/18/17 9:55PM	PA/VA
1,2-Dibromoethane	ND	492	983	0.050	µg/L	10/18/17 9:52AM	10/18/17 9:55PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Acenaphthylene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Anthracene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Benzidine	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Benzo(a)anthracene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Benzo(a)pyrene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Benzo(b)fluoranthene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Benzo(g,h,i)perylene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Benzo(k)fluoranthene	ND	3.24	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Butyl benzyl phthalate	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
4-Chloro-3-methylphenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2-Chloronaphthalene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2-Chlorophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Chrysene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
o-Cresol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
m,p-Cresol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Di-n-butyl phthalate	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
1,2-Dichlorobenzene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
1,3-Dichlorobenzene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
1,4-Dichlorobenzene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2,4-Dichlorophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Diethyl phthalate	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-06A	**Matrix:**	Groundwater
Client Sample ID:	MW06	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2,4-Dimethylphenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2,4-Dinitrophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2,4-Dinitrotoluene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2,6-Dinitrotoluene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Di-n-octyl phthalate	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
1,2-Diphenylhydrazine	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	
Fluoranthene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Fluorene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Hexachlorobenzene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Hexachlorobutadiene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Hexachlorocyclopentadiene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Hexachloroethane	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Isophorone	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Naphthalene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Nitrobenzene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2-Nitrophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
4-Nitrophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
N-Nitrosodimethylamine	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
N-Nitrosodiphenylamine	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Pentachlorophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Phenanthrene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Phenol	ND	5.41	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Pyrene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	
2,4,5-Trichlorophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
2,4,6-Trichlorophenol	ND	2.16	10.8	NA	µg/L	10/16/17 7:55AM	10/17/17 1:54PM	PA/VA
Surr: 2-Fluorophenol	37.7	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 1:54PM	
Surr: Phenol-d5	28.2	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 1:54PM	
Surr: 2,4,6-Tribromophenol	67.5	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 1:54PM	
Surr: Nitrobenzene-d5	69.6	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 1:54PM	
Surr: 2-Fluorobiphenyl	67.5	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 1:54PM	
Surr: 4-Terphenyl-d14	76.0	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 1:54PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/18/17 9:42PM	PA/VA
Surr: 2,5-Dibromotoluene	117	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/18/17 9:42PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-06A	**Matrix:**	Groundwater
Client Sample ID:	MW06	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/23/17 1:01PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-06A	**Matrix:**	Groundwater
Client Sample ID:	MW06	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/23/17 1:01PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	PA/VA
Surr: 1,2-Dichloroethane-d4	106	NA	75.9-132	NA	%Rec		10/23/17 1:01PM	
Surr: 4-Bromofluorobenzene	106	NA	73.6-132	NA	%Rec		10/23/17 1:01PM	
Surr: Dibromofluoromethane	97.9	NA	80.1-127	NA	%Rec		10/23/17 1:01PM	
Surr: Toluene-d8	97.1	NA	72.4-119	NA	%Rec		10/23/17 1:01PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/23/17 1:01PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 1:01PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-06A	**Matrix:**	Groundwater
Client Sample ID:	MW06	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/23/17 1:01PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/23/17 1:01PM	
Surr: 1,2-Dichloroethane-d4	105	NA	70-130	NA	%Rec		10/23/17 1:01PM	
Surr: 4-Bromofluorobenzene	96.9	NA	70-130	NA	%Rec		10/23/17 1:01PM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		10/23/17 1:01PM	
Surr: Toluene-d8	99.1	NA	70-130	NA	%Rec		10/23/17 1:01PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-06B	**Matrix:**	Groundwater
Client Sample ID:	MW06	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.553	0.200	1.00	NA	J	µg/L	10/17/17 2:00PM	10/18/17 4:54PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-07A	**Matrix:**	Groundwater
Client Sample ID:	MW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	19.5	0.200	1.00	NA	µg/L	10/17/17 2:00PM	10/18/17 4:59PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00753	0.0198	0.200	µg/L	10/18/17 9:52AM	10/18/17 10:11PM	PA/VA
1,2-Dibromoethane	ND	495	991	0.050	µg/L	10/18/17 9:52AM	10/18/17 10:11PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Acenaphthylene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Anthracene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Benzidine	ND	5.35	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Benzo(a)anthracene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Benzo(a)pyrene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Benzo(b)fluoranthene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Benzo(g,h,i)perylene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Benzo(k)fluoranthene	ND	3.21	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.35	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Butyl benzyl phthalate	ND	5.35	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
4-Chloro-3-methylphenol	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2-Chloronaphthalene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2-Chlorophenol	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Chrysene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
o-Cresol	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
m,p-Cresol	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Di-n-butyl phthalate	ND	5.35	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
1,2-Dichlorobenzene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
1,3-Dichlorobenzene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
1,4-Dichlorobenzene	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.35	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2,4-Dichlorophenol	ND	2.14	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Diethyl phthalate	ND	5.35	10.7	NA	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-07A	**Matrix:**	Groundwater
Client Sample ID:	MW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.35	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2,4-Dimethylphenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2,4-Dinitrophenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2,4-Dinitrotoluene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2,6-Dinitrotoluene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Di-n-octyl phthalate	ND	5.35	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
1,2-Diphenylhydrazine	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	
Fluoranthene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Fluorene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Hexachlorobenzene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Hexachlorobutadiene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Hexachlorocyclopentadiene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Hexachloroethane	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Isophorone	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Naphthalene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Nitrobenzene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2-Nitrophenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
4-Nitrophenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
N-Nitrosodimethylamine	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
N-Nitrosodiphenylamine	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Pentachlorophenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Phenanthrene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Phenol	7.24	5.35	10.7	NA	J	µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Pyrene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	
2,4,5-Trichlorophenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
2,4,6-Trichlorophenol	ND	2.14	10.7	NA		µg/L	10/16/17 7:55AM	10/17/17 2:15PM	PA/VA
Surr: 2-Fluorophenol	38.5	NA	17.6-120	NA		%Rec	10/16/17 7:55AM	10/17/17 2:15PM	
Surr: Phenol-d5	31.4	NA	11.4-120	NA		%Rec	10/16/17 7:55AM	10/17/17 2:15PM	
Surr: 2,4,6-Tribromophenol	73.0	NA	18-129	NA		%Rec	10/16/17 7:55AM	10/17/17 2:15PM	
Surr: Nitrobenzene-d5	75.9	NA	21.5-122	NA		%Rec	10/16/17 7:55AM	10/17/17 2:15PM	
Surr: 2-Fluorobiphenyl	74.9	NA	23.7-127	NA		%Rec	10/16/17 7:55AM	10/17/17 2:15PM	
Surr: 4-Terphenyl-d14	82.3	NA	39.9-124	NA		%Rec	10/16/17 7:55AM	10/17/17 2:15PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA		µg/L	10/13/17 12:37PM	10/14/17 1:08PM	PA/VA
Surr: 2,5-Dibromotoluene	104	NA	53.5-143	NA		%Rec	10/13/17 12:37PM	10/14/17 1:08PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-07A	**Matrix:**	Groundwater
Client Sample ID:	MW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/23/17 1:34PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-07A	**Matrix:**	Groundwater
Client Sample ID:	MW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/23/17 1:34PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	75.9-132	NA	%Rec		10/23/17 1:34PM	
Surr: 4-Bromofluorobenzene	105	NA	73.6-132	NA	%Rec		10/23/17 1:34PM	
Surr: Dibromofluoromethane	96.8	NA	80.1-127	NA	%Rec		10/23/17 1:34PM	
Surr: Toluene-d8	96.2	NA	72.4-119	NA	%Rec		10/23/17 1:34PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/23/17 1:34PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 1:34PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-07A	**Matrix:**	Groundwater
Client Sample ID:	MW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/23/17 1:34PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/23/17 1:34PM	
Surr: 1,2-Dichloroethane-d4	103	NA	70-130	NA	%Rec		10/23/17 1:34PM	
Surr: 4-Bromofluorobenzene	95.6	NA	70-130	NA	%Rec		10/23/17 1:34PM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		10/23/17 1:34PM	
Surr: Toluene-d8	98.3	NA	70-130	NA	%Rec		10/23/17 1:34PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-07B	**Matrix:**	Groundwater
Client Sample ID:	MW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.233	0.200	1.00	NA	J	µg/L	10/17/17 2:00PM	10/18/17 5:05PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 1:25:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-08A	**Matrix:**	Groundwater
Client Sample ID:	MW08	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	148	2.00	10.0	NA	µg/L	10/17/17 12:00PM	10/18/17 6:33PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00758	0.0200	0.200	µg/L	10/18/17 9:52AM	10/18/17 10:27PM	PA/VA
1,2-Dibromoethane	ND	499	998	0.050	µg/L	10/18/17 9:52AM	10/18/17 10:27PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Acenaphthylene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Anthracene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Benzidine	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Benzo(a)anthracene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Benzo(a)pyrene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Benzo(b)fluoranthene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Benzo(g,h,i)perylene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Benzo(k)fluoranthene	ND	3.32	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Butyl benzyl phthalate	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
4-Chloro-3-methylphenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2-Chloronaphthalene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2-Chlorophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Chrysene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
o-Cresol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
m,p-Cresol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Di-n-butyl phthalate	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
1,2-Dichlorobenzene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
1,3-Dichlorobenzene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
1,4-Dichlorobenzene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2,4-Dichlorophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Diethyl phthalate	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 1:25:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-08A	**Matrix:**	Groundwater
Client Sample ID:	MW08	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2,4-Dimethylphenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2,4-Dinitrophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2,4-Dinitrotoluene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2,6-Dinitrotoluene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Di-n-octyl phthalate	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
1,2-Diphenylhydrazine	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	
Fluoranthene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Fluorene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Hexachlorobenzene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Hexachlorobutadiene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Hexachlorocyclopentadiene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Hexachloroethane	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Isophorone	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Naphthalene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Nitrobenzene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2-Nitrophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
4-Nitrophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
N-Nitrosodimethylamine	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
N-Nitrosodiphenylamine	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Pentachlorophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Phenanthrene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Phenol	ND	5.54	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Pyrene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	
2,4,5-Trichlorophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
2,4,6-Trichlorophenol	ND	2.21	11.1	NA	µg/L	10/16/17 7:55AM	10/17/17 2:37PM	PA/VA
Surr: 2-Fluorophenol	39.5	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 2:37PM	
Surr: Phenol-d5	28.8	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 2:37PM	
Surr: 2,4,6-Tribromophenol	68.5	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 2:37PM	
Surr: Nitrobenzene-d5	68.1	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 2:37PM	
Surr: 2-Fluorobiphenyl	70.6	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 2:37PM	
Surr: 4-Terphenyl-d14	78.7	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 2:37PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/14/17 1:40PM	PA/VA
Surr: 2,5-Dibromotoluene	78.7	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/14/17 1:40PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 1:25:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-08A	**Matrix:**	Groundwater
Client Sample ID:	MW08	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/23/17 2:07PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 1:25:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-08A	**Matrix:**	Groundwater
Client Sample ID:	MW08	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/23/17 2:07PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	PA/VA
Surr: 1,2-Dichloroethane-d4	103	NA	75.9-132	NA	%Rec		10/23/17 2:07PM	
Surr: 4-Bromofluorobenzene	104	NA	73.6-132	NA	%Rec		10/23/17 2:07PM	
Surr: Dibromofluoromethane	98.4	NA	80.1-127	NA	%Rec		10/23/17 2:07PM	
Surr: Toluene-d8	99.6	NA	72.4-119	NA	%Rec		10/23/17 2:07PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/23/17 2:07PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/23/17 2:07PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 1:25:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-08A	**Matrix:**	Groundwater
Client Sample ID:	MW08	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/23/17 2:07PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/23/17 2:07PM	
Surr: 1,2-Dichloroethane-d4	101	NA	70-130	NA	%Rec		10/23/17 2:07PM	
Surr: 4-Bromofluorobenzene	95.2	NA	70-130	NA	%Rec		10/23/17 2:07PM	
Surr: Dibromofluoromethane	101	NA	70-130	NA	%Rec		10/23/17 2:07PM	
Surr: Toluene-d8	102	NA	70-130	NA	%Rec		10/23/17 2:07PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 1:25:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-08B	**Matrix:**	Groundwater
Client Sample ID:	MW08	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/17/17 12:00PM	10/18/17 6:39PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-09A	**Matrix:**	Groundwater
Client Sample ID:	MW09	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	35.3	0.200	1.00	NA		µg/L	10/18/17 9:30AM	10/19/17 5:38PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00744	0.0196	0.200		µg/L	10/18/17 9:52AM	10/18/17 10:43PM	PA/VA
1,2-Dibromoethane	ND	490	979	0.050		µg/L	10/18/17 9:52AM	10/18/17 10:43PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Acenaphthylene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Anthracene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Benzidine	8.53	5.45	10.9	NA	J	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Benzo(a)anthracene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Benzo(a)pyrene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Benzo(b)fluoranthene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Benzo(g,h,i)perylene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Benzo(k)fluoranthene	ND	3.27	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.45	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Butyl benzyl phthalate	ND	5.45	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
4-Chloro-3-methylphenol	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2-Chloronaphthalene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2-Chlorophenol	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Chrysene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
o-Cresol	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
m,p-Cresol	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Di-n-butyl phthalate	ND	5.45	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
1,2-Dichlorobenzene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
1,3-Dichlorobenzene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
1,4-Dichlorobenzene	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.45	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2,4-Dichlorophenol	ND	2.18	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Diethyl phthalate	ND	5.45	10.9	NA		µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-09A	**Matrix:**	Groundwater
Client Sample ID:	MW09	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.45	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2,4-Dimethylphenol	17.0	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2,4-Dinitrophenol	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2,4-Dinitrotoluene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2,6-Dinitrotoluene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Di-n-octyl phthalate	ND	5.45	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
1,2-Diphenylhydrazine	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	
Fluoranthene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Fluorene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Hexachlorobenzene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Hexachlorobutadiene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Hexachlorocyclopentadiene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Hexachloroethane	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Isophorone	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Naphthalene	25.2	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Nitrobenzene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2-Nitrophenol	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
4-Nitrophenol	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
N-Nitrosodimethylamine	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
N-Nitrosodiphenylamine	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Pentachlorophenol	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Phenanthrene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Phenol	ND	5.45	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Pyrene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	
2,4,5-Trichlorophenol	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
2,4,6-Trichlorophenol	ND	2.18	10.9	NA	µg/L	10/16/17 7:55AM	10/17/17 2:59PM	PA/VA
Surr: 2-Fluorophenol	43.0	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 2:59PM	
Surr: Phenol-d5	36.1	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 2:59PM	
Surr: 2,4,6-Tribromophenol	79.0	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 2:59PM	
Surr: Nitrobenzene-d5	76.2	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 2:59PM	
Surr: 2-Fluorobiphenyl	58.7	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 2:59PM	
Surr: 4-Terphenyl-d14	74.6	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 2:59PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	8,750	250	500	NA	µg/L	10/13/17 12:37PM	10/14/17 2:11PM	PA/VA
Surr: 2,5-Dibromotoluene	73.6	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/14/17 2:11PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-09A	**Matrix:**	Groundwater
Client Sample ID:	MW09	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	455	5.00	10.0	NA	µg/L		10/19/17 10:52PM	
Acetone	346	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
Acrolein	ND	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
Acrylonitrile	ND	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
Benzene	293	50.0	100	NA	µg/L		10/24/17 5:12AM	PA/VA
Bromobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Bromochloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Bromodichloromethane	32.1	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Bromoform	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Bromomethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
2-Butanone	ND	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
n-Butylbenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
sec-Butylbenzene	10.5	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
tert-Butylbenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Carbon disulfide	ND	25.0	50.0	NA	µg/L		10/19/17 10:52PM	
Carbon tetrachloride	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Chlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Chloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Chloroform	1,220	50.0	100	NA	µg/L		10/24/17 5:12AM	PA/VA
Chloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
2-Chlorotoluene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
4-Chlorotoluene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Dibromochloromethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2-Dibromoethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Dibromomethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,3-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,4-Dichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Dichlorodifluoromethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,1-Dichloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2-Dichloroethane	26.6	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,1-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
cis-1,2-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
trans-1,2-Dichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2-Dichloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,3-Dichloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
2,2-Dichloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,1-Dichloropropene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-09A	**Matrix:**	Groundwater
Client Sample ID:	MW09	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
trans-1,3-Dichloropropene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Ethylbenzene	150	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Hexachlorobutadiene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
2-Hexanone	417	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
Iodomethane	ND	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
Isopropylbenzene	16.5	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
4-Isopropyltoluene	28.5	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Methylene chloride	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
4-Methyl-2-pentanone	233	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
Methyl tert-butyl ether	3,700	100	500	NA	µg/L		10/24/17 5:12AM	PA/VA
Naphthalene	78.0	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
n-Propylbenzene	28.2	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Styrene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Tetrachloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Toluene	711	50.0	100	NA	µg/L		10/24/17 5:12AM	PA/VA
1,2,3-Trichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2,4-Trichlorobenzene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,1,1-Trichloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,1,2-Trichloroethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Trichloroethene	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Trichlorofluoromethane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2,3-Trichloropropane	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,2,4-Trimethylbenzene	129	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
1,3,5-Trimethylbenzene	176	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Vinyl acetate	ND	50.0	100	NA	µg/L		10/19/17 10:52PM	PA/VA
Vinyl chloride	ND	5.00	10.0	NA	µg/L		10/19/17 10:52PM	PA/VA
Surr: 1,2-Dichloroethane-d4	105	NA	75.9-132	NA	%Rec		10/19/17 10:52PM	
Surr: 4-Bromofluorobenzene	106	NA	73.6-132	NA	%Rec		10/19/17 10:52PM	
Surr: Dibromofluoromethane	99.0	NA	80.1-127	NA	%Rec		10/19/17 10:52PM	
Surr: Toluene-d8	96.0	NA	72.4-119	NA	%Rec		10/19/17 10:52PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	5.00	10.0	NA	µg/L		10/24/17 2:47PM	
tert-Amyl Ethyl Ether	ND	5.00	10.0	NA	µg/L		10/24/17 2:47PM	
tert-Amyl Methyl Ether	ND	5.00	10.0	NA	µg/L		10/24/17 2:47PM	
tert-Butyl alcohol	3,670	1,000	2,000	NA	µg/L		10/24/17 2:47PM	PA/VA
tert-Butyl Ethyl Ether	ND	5.00	10.0	NA	µg/L		10/24/17 2:47PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-09A	**Matrix:**	Groundwater
Client Sample ID:	MW09	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	1,000	2,000	NA	µg/L		10/24/17 2:47PM	PA/VA
Isopropyl ether	151	25.0	50.0	NA	µg/L		10/24/17 2:47PM	
Surr: 1,2-Dichloroethane-d4	101	NA	70-130	NA	%Rec		10/24/17 2:47PM	
Surr: 4-Bromofluorobenzene	103	NA	70-130	NA	%Rec		10/24/17 2:47PM	
Surr: Dibromofluoromethane	102	NA	70-130	NA	%Rec		10/24/17 2:47PM	
Surr: Toluene-d8	99.5	NA	70-130	NA	%Rec		10/24/17 2:47PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:15:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-09B	**Matrix:**	Groundwater
Client Sample ID:	MW09	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	3.79	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 5:56PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 8:55:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-10A	**Matrix:**	Groundwater
Client Sample ID:	MW10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	289	2.00	10.0	NA		µg/L	10/17/17 12:00PM	10/18/17 6:45PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.0800	0.211	0.200		µg/L	10/24/17 8:30AM	10/24/17 1:06PM	PA/VA
1,2-Dibromoethane	9.37	0.0411	0.211	0.050	X	µg/L	10/24/17 8:30AM	10/24/17 1:06PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Acenaphthylene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Anthracene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Benzidine	ND	5.23	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Benzo(a)anthracene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Benzo(a)pyrene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Benzo(b)fluoranthene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Benzo(g,h,i)perylene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Benzo(k)fluoranthene	ND	3.14	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.23	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Butyl benzyl phthalate	ND	5.23	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
4-Chloro-3-methylphenol	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2-Chloronaphthalene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2-Chlorophenol	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Chrysene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
o-Cresol	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
m,p-Cresol	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Di-n-butyl phthalate	ND	5.23	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
1,2-Dichlorobenzene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
1,3-Dichlorobenzene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
1,4-Dichlorobenzene	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.23	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2,4-Dichlorophenol	ND	2.09	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Diethyl phthalate	ND	5.23	10.5	NA		µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 8:55:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-10A	**Matrix:**	Groundwater
Client Sample ID:	MW10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.23	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2,4-Dimethylphenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2,4-Dinitrophenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2,4-Dinitrotoluene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2,6-Dinitrotoluene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Di-n-octyl phthalate	ND	5.23	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
1,2-Diphenylhydrazine	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	
Fluoranthene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Fluorene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Hexachlorobenzene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Hexachlorobutadiene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Hexachlorocyclopentadiene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Hexachloroethane	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Isophorone	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Naphthalene	1,060	41.9	209	NA	µg/L	10/16/17 7:55AM	10/23/17 1:07PM	PA/VA
Nitrobenzene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2-Nitrophenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
4-Nitrophenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
N-Nitrosodimethylamine	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
N-Nitrosodiphenylamine	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Pentachlorophenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Phenanthrene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Phenol	10.9	5.23	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Pyrene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	
2,4,5-Trichlorophenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
2,4,6-Trichlorophenol	ND	2.09	10.5	NA	µg/L	10/16/17 7:55AM	10/17/17 3:21PM	PA/VA
Surr: 2-Fluorophenol	40.9	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 3:21PM	
Surr: Phenol-d5	32.8	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 3:21PM	
Surr: 2,4,6-Tribromophenol	71.0	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 3:21PM	
Surr: Nitrobenzene-d5	86.2	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 3:21PM	
Surr: 2-Fluorobiphenyl	53.6	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 3:21PM	
Surr: 4-Terphenyl-d14	74.6	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 3:21PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	78,800	12,500	25,000	NA	µg/L	10/13/17 12:37PM	10/19/17 5:05AM	PA/VA
Surr: 2,5-Dibromotoluene	94.7	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/19/17 5:05AM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 8:55:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-10A	**Matrix:**	Groundwater
Client Sample ID:	MW10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	6,470	50.0	100	NA		µg/L		10/24/17 4:43AM	
Acetone	ND	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
Acrolein	ND	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
Acrylonitrile	ND	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
Benzene	3,860	50.0	100	NA	E	µg/L		10/24/17 4:43AM	PA/VA
Bromobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Bromochloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Bromodichloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Bromoform	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Bromomethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
2-Butanone	ND	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
n-Butylbenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
sec-Butylbenzene	16.0	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
tert-Butylbenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Carbon disulfide	ND	25.0	50.0	NA		µg/L		10/19/17 11:25PM	
Carbon tetrachloride	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Chlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Chloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Chloroform	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Chloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
2-Chlorotoluene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
4-Chlorotoluene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Dibromochloromethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2-Dibromoethane	15.5	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Dibromomethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2-Dichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,3-Dichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,4-Dichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Dichlorodifluoromethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,1-Dichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2-Dichloroethane	155	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,1-Dichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
cis-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
trans-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,3-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
2,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,1-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 8:55:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-10A	**Matrix:**	Groundwater
Client Sample ID:	MW10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
trans-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Ethylbenzene	441	50.0	100	NA		µg/L		10/24/17 4:43AM	PA/VA
Hexachlorobutadiene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
2-Hexanone	1,590	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
Iodomethane	ND	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
Isopropylbenzene	37.8	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
4-Isopropyltoluene	88.3	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Methylene chloride	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
4-Methyl-2-pentanone	604	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
Methyl tert-butyl ether	29,400	100	500	NA	E	µg/L		10/24/17 4:43AM	PA/VA
Naphthalene	772	5.00	10.0	NA	E	µg/L		10/19/17 11:25PM	PA/VA
n-Propylbenzene	84.1	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Styrene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Tetrachloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Toluene	2,490	50.0	100	NA		µg/L		10/24/17 4:43AM	PA/VA
1,2,3-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2,4-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,1,1-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,1,2-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Trichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Trichlorofluoromethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2,3-Trichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
1,2,4-Trimethylbenzene	246	50.0	100	NA		µg/L		10/24/17 4:43AM	PA/VA
1,3,5-Trimethylbenzene	1,060	50.0	100	NA		µg/L		10/24/17 4:43AM	PA/VA
Vinyl acetate	ND	50.0	100	NA		µg/L		10/19/17 11:25PM	PA/VA
Vinyl chloride	ND	5.00	10.0	NA		µg/L		10/19/17 11:25PM	PA/VA
Surr: 1,2-Dichloroethane-d4	125	NA	75.9-132	NA		%Rec		10/19/17 11:25PM	
Surr: 4-Bromofluorobenzene	107	NA	73.6-132	NA		%Rec		10/19/17 11:25PM	
Surr: Dibromofluoromethane	91.7	NA	80.1-127	NA		%Rec		10/19/17 11:25PM	
Surr: Toluene-d8	96.1	NA	72.4-119	NA		%Rec		10/19/17 11:25PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	5.00	10.0	NA		µg/L		10/24/17 3:20PM
tert-Amyl Ethyl Ether	ND	5.00	10.0	NA		µg/L		10/24/17 3:20PM
tert-Amyl Methyl Ether	330	5.00	10.0	NA	E	µg/L		10/24/17 3:20PM

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 8:55:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-10A	**Matrix:**	Groundwater
Client Sample ID:	MW10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Butyl alcohol	20,300	1,000	2,000	NA	µg/L		10/24/17 3:20PM	PA/VA
tert-Butyl Ethyl Ether	ND	5.00	10.0	NA	µg/L		10/24/17 3:20PM	
Ethanol	ND	1,000	2,000	NA	µg/L		10/24/17 3:20PM	PA/VA
Isopropyl ether	449	25.0	50.0	NA	µg/L		10/24/17 3:20PM	
Surr: 1,2-Dichloroethane-d4	120	NA	70-130	NA	%Rec		10/24/17 3:20PM	
Surr: 4-Bromofluorobenzene	108	NA	70-130	NA	%Rec		10/24/17 3:20PM	
Surr: Dibromofluoromethane	96.4	NA	70-130	NA	%Rec		10/24/17 3:20PM	
Surr: Toluene-d8	97.9	NA	70-130	NA	%Rec		10/24/17 3:20PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 8:55:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-10B	**Matrix:**	Groundwater
Client Sample ID:	MW10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/17/17 12:00PM	10/18/17 6:51PM	PA/VA

REI Consultants, Inc. - Analytical Report

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:40:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-11A	**Matrix:**	Groundwater
Client Sample ID:	MW11	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	13.4	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 6:02PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00754	0.0199	0.200	µg/L	10/18/17 9:52AM	10/18/17 11:15PM	PA/VA
1,2-Dibromoethane	ND	496	993	0.050	µg/L	10/18/17 9:52AM	10/18/17 11:15PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Acenaphthylene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Anthracene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Benzidine	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Benzo(a)anthracene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Benzo(a)pyrene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Benzo(b)fluoranthene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Benzo(g,h,i)perylene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Benzo(k)fluoranthene	ND	3.13	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Butyl benzyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
4-Chloro-3-methylphenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2-Chloronaphthalene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2-Chlorophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Chrysene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
o-Cresol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
m,p-Cresol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Di-n-butyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
1,2-Dichlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
1,3-Dichlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
1,4-Dichlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2,4-Dichlorophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Diethyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-11A	**Matrix:**	Groundwater
Client Sample ID:	MW11	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2,4-Dimethylphenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2,4-Dinitrophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2,4-Dinitrotoluene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2,6-Dinitrotoluene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Di-n-octyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
1,2-Diphenylhydrazine	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	
Fluoranthene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Fluorene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Hexachlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Hexachlorobutadiene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Hexachlorocyclopentadiene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Hexachloroethane	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Isophorone	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Naphthalene	151	10.4	52.2	NA	µg/L	10/16/17 7:55AM	10/23/17 1:29PM	PA/VA
Nitrobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2-Nitrophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
4-Nitrophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
N-Nitrosodimethylamine	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
N-Nitrosodiphenylamine	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Pentachlorophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Phenanthrene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Phenol	12.0	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Pyrene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	
2,4,5-Trichlorophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
2,4,6-Trichlorophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 3:43PM	PA/VA
Surr: 2-Fluorophenol	26.7	NA	17.6-120	NA	%Rec	10/16/17 7:55AM	10/17/17 3:43PM	
Surr: Phenol-d5	24.5	NA	11.4-120	NA	%Rec	10/16/17 7:55AM	10/17/17 3:43PM	
Surr: 2,4,6-Tribromophenol	49.2	NA	18-129	NA	%Rec	10/16/17 7:55AM	10/17/17 3:43PM	
Surr: Nitrobenzene-d5	58.3	NA	21.5-122	NA	%Rec	10/16/17 7:55AM	10/17/17 3:43PM	
Surr: 2-Fluorobiphenyl	47.8	NA	23.7-127	NA	%Rec	10/16/17 7:55AM	10/17/17 3:43PM	
Surr: 4-Terphenyl-d14	60.2	NA	39.9-124	NA	%Rec	10/16/17 7:55AM	10/17/17 3:43PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	16,500	250	500	NA	µg/L	10/13/17 12:37PM	10/14/17 3:15PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:40:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-11A	**Matrix:**	Groundwater
Client Sample ID:	MW11	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: 2,5-Dibromotoluene	161	NA	53.5-143	NA	S	%Rec	10/13/17 12:37PM	10/14/17 3:15PM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS-8260 **Method: SW8260B** **Analyst: JM**

Xylenes, Total	1998.6	50.0	100	NA		µg/L	10/23/17 10:00PM	
Acetone	ND	50.0	100	NA		µg/L	10/19/17 11:58PM	PA/VA
Acrolein	ND	50.0	100	NA		µg/L	10/19/17 11:58PM	PA/VA
Acrylonitrile	ND	50.0	100	NA		µg/L	10/19/17 11:58PM	PA/VA
Benzene	2,370	50.0	100	NA		µg/L	10/23/17 10:00PM	PA/VA
Bromobenzene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Bromochloromethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Bromodichloromethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Bromoform	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Bromomethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
2-Butanone	ND	50.0	100	NA		µg/L	10/19/17 11:58PM	PA/VA
n-Butylbenzene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
sec-Butylbenzene	10.7	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
tert-Butylbenzene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Carbon disulfide	ND	25.0	50.0	NA		µg/L	10/19/17 11:58PM	
Carbon tetrachloride	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Chlorobenzene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Chloroethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Chloroform	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Chloromethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
2-Chlorotoluene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
4-Chlorotoluene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Dibromochloromethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,2-Dibromoethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Dibromomethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,2-Dichlorobenzene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,3-Dichlorobenzene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,4-Dichlorobenzene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
Dichlorodifluoromethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,1-Dichloroethane	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,2-Dichloroethane	52.4	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
1,1-Dichloroethene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA
cis-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L	10/19/17 11:58PM	PA/VA

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:40:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-11A	**Matrix:**	Groundwater
Client Sample ID:	MW11	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,2-Dichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,3-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
2,2-Dichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,1-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
cis-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
trans-1,3-Dichloropropene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Ethylbenzene	425	50.0	100	NA		µg/L		10/23/17 10:00PM	PA/VA
Hexachlorobutadiene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
2-Hexanone	521	50.0	100	NA		µg/L		10/19/17 11:58PM	PA/VA
Iodomethane	ND	50.0	100	NA		µg/L		10/19/17 11:58PM	PA/VA
Isopropylbenzene	26.7	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
4-Isopropyltoluene	34.3	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Methylene chloride	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
4-Methyl-2-pentanone	226	50.0	100	NA		µg/L		10/19/17 11:58PM	PA/VA
Methyl tert-butyl ether	15,600	100	500	NA	E	µg/L		10/23/17 10:00PM	PA/VA
Naphthalene	253	50.0	100	NA		µg/L		10/23/17 10:00PM	PA/VA
n-Propylbenzene	66.4	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Styrene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Tetrachloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Toluene	1,060	50.0	100	NA		µg/L		10/23/17 10:00PM	PA/VA
1,2,3-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,2,4-Trichlorobenzene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,1,1-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,1,2-Trichloroethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Trichloroethene	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Trichlorofluoromethane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,2,3-Trichloropropane	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,2,4-Trimethylbenzene	24.3	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
1,3,5-Trimethylbenzene	364	50.0	100	NA		µg/L		10/23/17 10:00PM	PA/VA
Vinyl acetate	ND	50.0	100	NA		µg/L		10/19/17 11:58PM	PA/VA
Vinyl chloride	ND	5.00	10.0	NA		µg/L		10/19/17 11:58PM	PA/VA
Surr: 1,2-Dichloroethane-d4	109	NA	75.9-132	NA		%Rec		10/19/17 11:58PM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec		10/19/17 11:58PM	
Surr: Dibromofluoromethane	94.3	NA	80.1-127	NA		%Rec		10/19/17 11:58PM	
Surr: Toluene-d8	97.3	NA	72.4-119	NA		%Rec		10/19/17 11:58PM	

Notes:

Results are qualified as “E”, estimated. The sample could not be re-analyzed within the method holding time.

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-11A	**Matrix:**	Groundwater
Client Sample ID:	MW11	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	5.00	10.0	NA	µg/L		10/24/17 3:53PM	
tert-Amyl Ethyl Ether	ND	5.00	10.0	NA	µg/L		10/24/17 3:53PM	
tert-Amyl Methyl Ether	121	5.00	10.0	NA	µg/L		10/24/17 3:53PM	
tert-Butyl alcohol	10,900	1,000	2,000	NA	µg/L		10/24/17 3:53PM	PA/VA
tert-Butyl Ethyl Ether	ND	5.00	10.0	NA	µg/L		10/24/17 3:53PM	
Ethanol	ND	1,000	2,000	NA	µg/L		10/24/17 3:53PM	PA/VA
Isopropyl ether	166	25.0	50.0	NA	µg/L		10/24/17 3:53PM	
Surr: 1,2-Dichloroethane-d4	109	NA	70-130	NA	%Rec		10/24/17 3:53PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/24/17 3:53PM	
Surr: Dibromofluoromethane	97.5	NA	70-130	NA	%Rec		10/24/17 3:53PM	
Surr: Toluene-d8	97.7	NA	70-130	NA	%Rec		10/24/17 3:53PM	

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-11B	**Matrix:**	Groundwater
Client Sample ID:	MW11	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 6:08PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:35:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-12A	**Matrix:**	Groundwater
Client Sample ID:	DW01A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	5.68	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 6:14PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00735	0.0193	0.200	µg/L	10/18/17 9:52AM	10/18/17 11:31PM	PA/VA
1,2-Dibromoethane	ND	484	967	0.050	µg/L	10/18/17 9:52AM	10/18/17 11:31PM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Acenaphthylene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Anthracene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Benzidine	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Benzo(a)anthracene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Benzo(a)pyrene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Benzo(b)fluoranthene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Benzo(g,h,i)perylene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Benzo(k)fluoranthene	ND	3.13	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Butyl benzyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
4-Chloro-3-methylphenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2-Chloronaphthalene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2-Chlorophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Chrysene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
o-Cresol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
m,p-Cresol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Di-n-butyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
1,2-Dichlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
1,3-Dichlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
1,4-Dichlorobenzene	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2,4-Dichlorophenol	ND	2.09	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Diethyl phthalate	ND	5.22	10.4	NA	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA

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Lab ID:	17101663-12A	**Matrix:**	Groundwater
Client Sample ID:	DW01A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.22	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2,4-Dimethylphenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2,4-Dinitrophenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2,4-Dinitrotoluene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2,6-Dinitrotoluene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Di-n-octyl phthalate	ND	5.22	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
1,2-Diphenylhydrazine	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	
Fluoranthene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Fluorene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Hexachlorobenzene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Hexachlorobutadiene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Hexachlorocyclopentadiene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Hexachloroethane	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Isophorone	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Naphthalene	34.9	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Nitrobenzene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2-Nitrophenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
4-Nitrophenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
N-Nitrosodimethylamine	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
N-Nitrosodiphenylamine	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Pentachlorophenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Phenanthrene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Phenol	7.86	5.22	10.4	NA	J	µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Pyrene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	
2,4,5-Trichlorophenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
2,4,6-Trichlorophenol	ND	2.09	10.4	NA		µg/L	10/16/17 7:55AM	10/17/17 4:04PM	PA/VA
Surr: 2-Fluorophenol	38.5	NA	17.6-120	NA		%Rec	10/16/17 7:55AM	10/17/17 4:04PM	
Surr: Phenol-d5	30.6	NA	11.4-120	NA		%Rec	10/16/17 7:55AM	10/17/17 4:04PM	
Surr: 2,4,6-Tribromophenol	72.3	NA	18-129	NA		%Rec	10/16/17 7:55AM	10/17/17 4:04PM	
Surr: Nitrobenzene-d5	83.5	NA	21.5-122	NA		%Rec	10/16/17 7:55AM	10/17/17 4:04PM	
Surr: 2-Fluorobiphenyl	66.7	NA	23.7-127	NA		%Rec	10/16/17 7:55AM	10/17/17 4:04PM	
Surr: 4-Terphenyl-d14	82.6	NA	39.9-124	NA		%Rec	10/16/17 7:55AM	10/17/17 4:04PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	7,020	250	500	NA		µg/L	10/13/17 12:37PM	10/14/17 3:47PM	PA/VA

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-12A	**Matrix:**	Groundwater
Client Sample ID:	DW01A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: 2,5-Dibromotoluene	155	NA	53.5-143	NA	S	%Rec	10/13/17 12:37PM	10/14/17 3:47PM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS-8260 **Method: SW8260B** **Analyst: JM**

Xylenes, Total	725.2	50.0	100	NA		µg/L	10/24/17 5:41AM	
Acetone	ND	5.00	10.0	NA		µg/L	10/13/17 6:29PM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L	10/13/17 6:29PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L	10/13/17 6:29PM	PA/VA
Benzene	1,070	50.0	100	NA		µg/L	10/24/17 5:41AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L	10/13/17 6:29PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
sec-Butylbenzene	2.04	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L	10/13/17 6:29PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Chloroform	7.01	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L	10/13/17 6:29PM	PA/VA

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-12A	**Matrix:**	Groundwater
Client Sample ID:	DW01A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,2-Dichloropropane	2.20	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Ethylbenzene	68.6	5.00	10.0	NA	µg/L		10/19/17 7:34PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 6:29PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 6:29PM	PA/VA
Isopropylbenzene	12.6	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
4-Isopropyltoluene	1.08	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 6:29PM	PA/VA
Methyl tert-butyl ether	603	10.0	50.0	NA	µg/L		10/19/17 7:34PM	PA/VA
Naphthalene	18.5	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
n-Propylbenzene	13.1	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Toluene	2.02	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
1,2,4-Trimethylbenzene	272	50.0	100	NA	µg/L		10/24/17 5:41AM	PA/VA
1,3,5-Trimethylbenzene	90.1	5.00	10.0	NA	µg/L		10/19/17 7:34PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 6:29PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	PA/VA
Surr: 1,2-Dichloroethane-d4	78.3	NA	75.9-132	NA	%Rec		10/13/17 6:29PM	
Surr: 4-Bromofluorobenzene	104	NA	73.6-132	NA	%Rec		10/13/17 6:29PM	
Surr: Dibromofluoromethane	102	NA	80.1-127	NA	%Rec		10/13/17 6:29PM	
Surr: Toluene-d8	103	NA	72.4-119	NA	%Rec		10/13/17 6:29PM	

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Lab ID:	17101663-12A	**Matrix:**	Groundwater
Client Sample ID:	DW01A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 6:29PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 6:29PM	
Ethanol	ND	100	200	NA	µg/L		10/13/17 6:29PM	PA/VA
Isopropyl ether	58.2	2.50	5.00	NA	µg/L		10/13/17 6:29PM	
Surr: 1,2-Dichloroethane-d4	75.6	NA	70-130	NA	%Rec		10/13/17 6:29PM	
Surr: 4-Bromofluorobenzene	108	NA	70-130	NA	%Rec		10/13/17 6:29PM	
Surr: Dibromofluoromethane	95.6	NA	70-130	NA	%Rec		10/13/17 6:29PM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/13/17 6:29PM	

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Lab ID:	17101663-12B	**Matrix:**	Groundwater
Client Sample ID:	DW01A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.285	0.200	1.00	NA	J	µg/L	10/18/17 9:30AM	10/19/17 6:19PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-13A	**Matrix:**	Groundwater
Client Sample ID:	DW02A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 6:25PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
1,2-Dibromo-3-chloropropane	ND	0.00750	0.0197	0.200	µg/L	10/18/17 9:52AM	10/18/17 11:47PM	PA/VA
1,2-Dibromoethane	ND	0.00385	0.0197	0.050	µg/L	10/18/17 9:52AM	10/18/17 11:47PM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**
Acenaphthene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Acenaphthylene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Anthracene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Benzidine	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Benzo(a)anthracene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Benzo(a)pyrene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Benzo(b)fluoranthene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Benzo(g,h,i)perylene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Benzo(k)fluoranthene	ND	3.11	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Butyl benzyl phthalate	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
4-Chloro-3-methylphenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2-Chloronaphthalene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2-Chlorophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Chrysene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
o-Cresol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
m,p-Cresol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Di-n-butyl phthalate	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
1,2-Dichlorobenzene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
1,3-Dichlorobenzene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
1,4-Dichlorobenzene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2,4-Dichlorophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Diethyl phthalate	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Dimethyl phthalate	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA

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WO#: 17101663

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-13A	**Matrix:**	Groundwater
Client Sample ID:	DW02A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2,4-Dinitrophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2,4-Dinitrotoluene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2,6-Dinitrotoluene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Di-n-octyl phthalate	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
1,2-Diphenylhydrazine	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	
Fluoranthene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Fluorene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Hexachlorobenzene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Hexachlorobutadiene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Hexachlorocyclopentadiene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Hexachloroethane	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Isophorone	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Naphthalene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Nitrobenzene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2-Nitrophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
4-Nitrophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
N-Nitrosodimethylamine	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
N-Nitrosodiphenylamine	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Pentachlorophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Phenanthrene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Phenol	ND	5.18	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Pyrene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	
2,4,5-Trichlorophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
2,4,6-Trichlorophenol	ND	2.07	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 7:14PM	PA/VA
Surr: 2-Fluorophenol	33.6	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 7:14PM	
Surr: Phenol-d5	26.8	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 7:14PM	
Surr: 2,4,6-Tribromophenol	60.1	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 7:14PM	
Surr: Nitrobenzene-d5	64.6	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 7:14PM	
Surr: 2-Fluorobiphenyl	55.9	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 7:14PM	
Surr: 4-Terphenyl-d14	75.7	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 7:14PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/18/17 10:14PM	PA/VA
Surr: 2,5-Dibromotoluene	108	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/18/17 10:14PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-13A	**Matrix:**	Groundwater
Client Sample ID:	DW02A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	0.760	0.500	1.00	NA	J	µg/L		10/19/17 6:27PM	
Acetone	ND	5.00	10.0	NA		µg/L		10/13/17 7:02PM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		10/13/17 7:02PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		10/13/17 7:02PM	PA/VA
Benzene	3.11	0.500	1.00	NA		µg/L		10/19/17 6:27PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L		10/13/17 7:02PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		10/13/17 7:02PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Chloroform	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L		10/19/17 6:27PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,2-Dichloropropane	1.01	0.500	1.00	NA		µg/L		10/19/17 6:27PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/13/17 7:02PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-13A	**Matrix:**	Groundwater
Client Sample ID:	DW02A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 7:02PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 7:02PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 7:02PM	PA/VA
Methyl tert-butyl ether	170	10.0	50.0	NA	µg/L		10/20/17 12:31AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/19/17 6:27PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
1,2,4-Trimethylbenzene	14.8	0.500	1.00	NA	µg/L		10/19/17 6:27PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/19/17 6:27PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 7:02PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	PA/VA
Surr: 1,2-Dichloroethane-d4	129	NA	75.9-132	NA	%Rec		10/13/17 7:02PM	
Surr: 4-Bromofluorobenzene	110	NA	73.6-132	NA	%Rec		10/13/17 7:02PM	
Surr: Dibromofluoromethane	108	NA	80.1-127	NA	%Rec		10/13/17 7:02PM	
Surr: Toluene-d8	103	NA	72.4-119	NA	%Rec		10/13/17 7:02PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 7:02PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 7:02PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-13A	**Matrix:**	Groundwater
Client Sample ID:	DW02A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 7:02PM	PA/VA
Isopropyl ether	13.2	2.50	5.00	NA	µg/L		10/13/17 7:02PM	
Surr: 1,2-Dichloroethane-d4	124	NA	70-130	NA	%Rec		10/13/17 7:02PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/13/17 7:02PM	
Surr: Dibromofluoromethane	101	NA	70-130	NA	%Rec		10/13/17 7:02PM	
Surr: Toluene-d8	102	NA	70-130	NA	%Rec		10/13/17 7:02PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-13B	**Matrix:**	Groundwater
Client Sample ID:	DW02A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 6:31PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:15:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-14A	**Matrix:**	Groundwater
Client Sample ID:	DW03A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	13.2	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 6:37PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00741	0.0195	0.200	µg/L	10/18/17 9:52AM	10/19/17 12:03AM	PA/VA
1,2-Dibromoethane	ND	0.00380	0.0195	0.050	µg/L	10/18/17 9:52AM	10/19/17 12:03AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Acenaphthylene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Anthracene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Benzidine	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Benzo(a)anthracene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Benzo(a)pyrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Benzo(b)fluoranthene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Benzo(g,h,i)perylene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Benzo(k)fluoranthene	ND	3.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Butyl benzyl phthalate	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
4-Chloro-3-methylphenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2-Chloronaphthalene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2-Chlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Chrysene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
o-Cresol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
m,p-Cresol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Di-n-butyl phthalate	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
1,2-Dichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
1,3-Dichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
1,4-Dichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2,4-Dichlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Diethyl phthalate	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Dimethyl phthalate	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA

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WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:15:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-14A	**Matrix:**	Groundwater
Client Sample ID:	DW03A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2,4-Dinitrophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2,4-Dinitrotoluene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2,6-Dinitrotoluene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Di-n-octyl phthalate	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
1,2-Diphenylhydrazine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	
Fluoranthene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Fluorene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Hexachlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Hexachlorobutadiene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Hexachlorocyclopentadiene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Hexachloroethane	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Isophorone	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Naphthalene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Nitrobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2-Nitrophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
4-Nitrophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
N-Nitrosodimethylamine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
N-Nitrosodiphenylamine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Pentachlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Phenanthrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Phenol	ND	5.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Pyrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	
2,4,5-Trichlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
2,4,6-Trichlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 7:35PM	PA/VA
Surr: 2-Fluorophenol	28.5	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 7:35PM	
Surr: Phenol-d5	21.6	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 7:35PM	
Surr: 2,4,6-Tribromophenol	55.9	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 7:35PM	
Surr: Nitrobenzene-d5	57.9	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 7:35PM	
Surr: 2-Fluorobiphenyl	55.7	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 7:35PM	
Surr: 4-Terphenyl-d14	72.5	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 7:35PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/18/17 10:46PM	PA/VA
Surr: 2,5-Dibromotoluene	105	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/18/17 10:46PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:15:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-14A	**Matrix:**	Groundwater
Client Sample ID:	DW03A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	
Acetone	ND	5.00	10.0	NA		µg/L		10/13/17 7:35PM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		10/13/17 7:35PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		10/13/17 7:35PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L		10/13/17 7:35PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		10/13/17 7:35PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Chloroform	0.530	0.500	1.00	NA	J	µg/L		10/17/17 9:44PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L		10/17/17 9:44PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/13/17 7:35PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:15:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-14A	**Matrix:**	Groundwater
Client Sample ID:	DW03A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 7:35PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 7:35PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 7:35PM	PA/VA
Methyl tert-butyl ether	36.8	1.00	5.00	NA	µg/L		10/17/17 9:44PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/23/17 7:07PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
1,2,4-Trimethylbenzene	2.92	0.500	1.00	NA	µg/L		10/17/17 9:44PM	PA/VA
1,3,5-Trimethylbenzene	1.01	0.500	1.00	NA	µg/L		10/17/17 9:44PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 7:35PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	75.9-132	NA	%Rec		10/13/17 7:35PM	
Surr: 4-Bromofluorobenzene	108	NA	73.6-132	NA	%Rec		10/13/17 7:35PM	
Surr: Dibromofluoromethane	108	NA	80.1-127	NA	%Rec		10/13/17 7:35PM	
Surr: Toluene-d8	102	NA	72.4-119	NA	%Rec		10/13/17 7:35PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 7:35PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 7:35PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:15:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-14A	**Matrix:**	Groundwater
Client Sample ID:	DW03A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA		µg/L		10/13/17 7:35PM	PA/VA
Isopropyl ether	4.06	2.50	5.00	NA	J	µg/L		10/13/17 7:35PM	
Surr: 1,2-Dichloroethane-d4	113	NA	70-130	NA		%Rec		10/13/17 7:35PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA		%Rec		10/13/17 7:35PM	
Surr: Dibromofluoromethane	102	NA	70-130	NA		%Rec		10/13/17 7:35PM	
Surr: Toluene-d8	101	NA	70-130	NA		%Rec		10/13/17 7:35PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 3:15:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-14B	**Matrix:**	Groundwater
Client Sample ID:	DW03A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.649	0.200	1.00	NA	J	µg/L	10/18/17 9:30AM	10/19/17 6:43PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-15A	**Matrix:**	Groundwater
Client Sample ID:	DW04A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.515	0.200	1.00	NA	J	µg/L	10/18/17 9:30AM	10/19/17 6:48PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00749	0.0197	0.200		µg/L	10/18/17 9:52AM	10/19/17 12:19AM	PA/VA
1,2-Dibromoethane	ND	0.00384	0.0197	0.050		µg/L	10/18/17 9:52AM	10/19/17 12:19AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Acenaphthylene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Anthracene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Benzidine	ND	5.12	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Benzo(a)anthracene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Benzo(a)pyrene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Benzo(b)fluoranthene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Benzo(g,h,i)perylene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Benzo(k)fluoranthene	ND	3.07	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.12	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Butyl benzyl phthalate	ND	5.12	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
4-Chloro-3-methylphenol	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2-Chloronaphthalene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2-Chlorophenol	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Chrysene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
o-Cresol	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
m,p-Cresol	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Di-n-butyl phthalate	ND	5.12	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
1,2-Dichlorobenzene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
1,3-Dichlorobenzene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
1,4-Dichlorobenzene	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.12	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2,4-Dichlorophenol	ND	2.05	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Diethyl phthalate	ND	5.12	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Dimethyl phthalate	ND	5.12	10.2	NA		µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-15A	**Matrix:**	Groundwater
Client Sample ID:	DW04A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2,4-Dinitrophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2,4-Dinitrotoluene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2,6-Dinitrotoluene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Di-n-octyl phthalate	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
1,2-Diphenylhydrazine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	
Fluoranthene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Fluorene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Hexachlorobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Hexachlorobutadiene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Hexachlorocyclopentadiene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Hexachloroethane	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Isophorone	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Naphthalene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Nitrobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2-Nitrophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
4-Nitrophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
N-Nitrosodimethylamine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
N-Nitrosodiphenylamine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Pentachlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Phenanthrene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Phenol	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Pyrene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	
2,4,5-Trichlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
2,4,6-Trichlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 7:57PM	PA/VA
Surr: 2-Fluorophenol	33.2	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 7:57PM	
Surr: Phenol-d5	26.9	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 7:57PM	
Surr: 2,4,6-Tribromophenol	62.3	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 7:57PM	
Surr: Nitrobenzene-d5	68.1	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 7:57PM	
Surr: 2-Fluorobiphenyl	66.6	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 7:57PM	
Surr: 4-Terphenyl-d14	82.5	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 7:57PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/14/17 5:22PM	PA/VA
Surr: 2,5-Dibromotoluene	125	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/14/17 5:22PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-15A	**Matrix:**	Groundwater
Client Sample ID:	DW04A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
Benzene	3.56	0.500	1.00	NA	µg/L		10/17/17 9:11PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/13/17 8:08PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/17/17 9:11PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-15A	**Matrix:**	Groundwater
Client Sample ID:	DW04A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
Methyl tert-butyl ether	15.3	1.00	5.00	NA	µg/L		10/17/17 9:11PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 8:08PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	75.9-132	NA	%Rec		10/13/17 8:08PM	
Surr: 4-Bromofluorobenzene	110	NA	73.6-132	NA	%Rec		10/13/17 8:08PM	
Surr: Dibromofluoromethane	108	NA	80.1-127	NA	%Rec		10/13/17 8:08PM	
Surr: Toluene-d8	103	NA	72.4-119	NA	%Rec		10/13/17 8:08PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 8:08PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 8:08PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-15A	**Matrix:**	Groundwater
Client Sample ID:	DW04A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 8:08PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/13/17 8:08PM	
Surr: 1,2-Dichloroethane-d4	113	NA	70-130	NA	%Rec		10/13/17 8:08PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/13/17 8:08PM	
Surr: Dibromofluoromethane	100	NA	70-130	NA	%Rec		10/13/17 8:08PM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/13/17 8:08PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-15B	**Matrix:**	Groundwater
Client Sample ID:	DW04A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 7:06PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-16A	**Matrix:**	Groundwater
Client Sample ID:	DW05A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 5:15PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00742	0.0195	0.200	µg/L	10/18/17 9:52AM	10/19/17 12:35AM	PA/VA
1,2-Dibromoethane	ND	0.00381	0.0195	0.050	µg/L	10/18/17 9:52AM	10/19/17 12:35AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Acenaphthylene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Anthracene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Benzidine	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Benzo(a)anthracene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Benzo(a)pyrene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Benzo(b)fluoranthene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Benzo(g,h,i)perylene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Benzo(k)fluoranthene	ND	3.06	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Butyl benzyl phthalate	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
4-Chloro-3-methylphenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2-Chloronaphthalene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2-Chlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Chrysene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
o-Cresol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
m,p-Cresol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Di-n-butyl phthalate	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
1,2-Dichlorobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
1,3-Dichlorobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
1,4-Dichlorobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2,4-Dichlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Diethyl phthalate	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Dimethyl phthalate	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-16A	**Matrix:**	Groundwater
Client Sample ID:	DW05A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2,4-Dinitrophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2,4-Dinitrotoluene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2,6-Dinitrotoluene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Di-n-octyl phthalate	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
1,2-Diphenylhydrazine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	
Fluoranthene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Fluorene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Hexachlorobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Hexachlorobutadiene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Hexachlorocyclopentadiene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Hexachloroethane	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Isophorone	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Naphthalene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Nitrobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2-Nitrophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
4-Nitrophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
N-Nitrosodimethylamine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
N-Nitrosodiphenylamine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Pentachlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Phenanthrene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Phenol	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Pyrene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	
2,4,5-Trichlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
2,4,6-Trichlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 8:19PM	PA/VA
Surr: 2-Fluorophenol	35.3	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 8:19PM	
Surr: Phenol-d5	26.0	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 8:19PM	
Surr: 2,4,6-Tribromophenol	60.7	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 8:19PM	
Surr: Nitrobenzene-d5	71.7	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 8:19PM	
Surr: 2-Fluorobiphenyl	73.9	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 8:19PM	
Surr: 4-Terphenyl-d14	85.9	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 8:19PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 3:12PM	PA/VA
Surr: 2,5-Dibromotoluene	90.3	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 3:12PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-16A	**Matrix:**	Groundwater
Client Sample ID:	DW05A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/13/17 8:42PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/13/17 8:42PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/13/17 8:42PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/13/17 8:42PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/13/17 8:42PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 8:42PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-16A	**Matrix:**	Groundwater
Client Sample ID:	DW05A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		10/13/17 8:42PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		10/13/17 8:42PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		10/13/17 8:42PM	PA/VA
Methyl tert-butyl ether	4.77	1.00	5.00	NA	J	µg/L		10/17/17 8:38PM	PA/VA
Naphthalene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		10/13/17 8:42PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	PA/VA
Surr: 1,2-Dichloroethane-d4	118	NA	75.9-132	NA		%Rec		10/13/17 8:42PM	
Surr: 4-Bromofluorobenzene	112	NA	73.6-132	NA		%Rec		10/13/17 8:42PM	
Surr: Dibromofluoromethane	110	NA	80.1-127	NA		%Rec		10/13/17 8:42PM	
Surr: Toluene-d8	102	NA	72.4-119	NA		%Rec		10/13/17 8:42PM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL — **Method: SW8260B** — **Analyst: JM**

tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		10/13/17 8:42PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		10/13/17 8:42PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-16A	**Matrix:**	Groundwater
Client Sample ID:	DW05A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 8:42PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/13/17 8:42PM	
Surr: 1,2-Dichloroethane-d4	114	NA	70-130	NA	%Rec		10/13/17 8:42PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/13/17 8:42PM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		10/13/17 8:42PM	
Surr: Toluene-d8	100	NA	70-130	NA	%Rec		10/13/17 8:42PM	

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-16B	**Matrix:**	Groundwater
Client Sample ID:	DW05A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 5:33PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:35:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-17A	**Matrix:**	Groundwater
Client Sample ID:	DW06B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	3.72	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 7:12PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00755	0.0199	0.200	µg/L	10/18/17 9:52AM	10/19/17 12:51AM	PA/VA
1,2-Dibromoethane	ND	0.00387	0.0199	0.050	µg/L	10/18/17 9:52AM	10/19/17 12:51AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Acenaphthylene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Anthracene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Benzidine	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Benzo(a)anthracene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Benzo(a)pyrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Benzo(b)fluoranthene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Benzo(g,h,i)perylene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Benzo(k)fluoranthene	ND	3.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Butyl benzyl phthalate	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
4-Chloro-3-methylphenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2-Chloronaphthalene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2-Chlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Chrysene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
o-Cresol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
m,p-Cresol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Di-n-butyl phthalate	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
1,2-Dichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
1,3-Dichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
1,4-Dichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
3,3´-Dichlorobenzidine	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2,4-Dichlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Diethyl phthalate	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Dimethyl phthalate	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:35:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-17A	**Matrix:**	Groundwater
Client Sample ID:	DW06B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2,4-Dinitrophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2,4-Dinitrotoluene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2,6-Dinitrotoluene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Di-n-octyl phthalate	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
1,2-Diphenylhydrazine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	
Fluoranthene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Fluorene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Hexachlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Hexachlorobutadiene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Hexachlorocyclopentadiene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Hexachloroethane	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Isophorone	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Naphthalene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Nitrobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2-Nitrophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
4-Nitrophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
N-Nitrosodimethylamine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
N-Nitrosodiphenylamine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Pentachlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Phenanthrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Phenol	ND	4.99	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Pyrene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	
2,4,5-Trichlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
2,4,6-Trichlorophenol	ND	2.00	9.99	NA	µg/L	10/17/17 8:22AM	10/17/17 8:41PM	PA/VA
Surr: 2-Fluorophenol	38.5	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 8:41PM	
Surr: Phenol-d5	28.3	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 8:41PM	
Surr: 2,4,6-Tribromophenol	67.8	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 8:41PM	
Surr: Nitrobenzene-d5	72.4	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 8:41PM	
Surr: 2-Fluorobiphenyl	70.2	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 8:41PM	
Surr: 4-Terphenyl-d14	83.5	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 8:41PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 3:43PM	PA/VA
Surr: 2,5-Dibromotoluene	94.7	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 3:43PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:35:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-17A	**Matrix:**	Groundwater
Client Sample ID:	DW06B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/13/17 9:15PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:35:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-17A	**Matrix:**	Groundwater
Client Sample ID:	DW06B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 9:15PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	PA/VA
Surr: 1,2-Dichloroethane-d4	120	NA	75.9-132	NA	%Rec		10/13/17 9:15PM	
Surr: 4-Bromofluorobenzene	109	NA	73.6-132	NA	%Rec		10/13/17 9:15PM	
Surr: Dibromofluoromethane	110	NA	80.1-127	NA	%Rec		10/13/17 9:15PM	
Surr: Toluene-d8	102	NA	72.4-119	NA	%Rec		10/13/17 9:15PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 9:15PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 9:15PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:35:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-17A	**Matrix:**	Groundwater
Client Sample ID:	DW06B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 9:15PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/13/17 9:15PM	
Surr: 1,2-Dichloroethane-d4	116	NA	70-130	NA	%Rec		10/13/17 9:15PM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/13/17 9:15PM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		10/13/17 9:15PM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/13/17 9:15PM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:35:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-17B	**Matrix:**	Groundwater
Client Sample ID:	DW06B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	3.69	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 7:18PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-18A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	12.0	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 7:24PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00751	0.0198	0.200	µg/L	10/18/17 9:52AM	10/19/17 1:07AM	PA/VA
1,2-Dibromoethane	ND	0.00385	0.0198	0.050	µg/L	10/18/17 9:52AM	10/19/17 1:07AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Acenaphthylene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Anthracene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Benzidine	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Benzo(a)anthracene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Benzo(a)pyrene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Benzo(b)fluoranthene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Benzo(g,h,i)perylene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Benzo(k)fluoranthene	ND	3.16	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Butyl benzyl phthalate	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
4-Chloro-3-methylphenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2-Chloronaphthalene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2-Chlorophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Chrysene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
o-Cresol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
m,p-Cresol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Di-n-butyl phthalate	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
1,2-Dichlorobenzene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
1,3-Dichlorobenzene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
1,4-Dichlorobenzene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2,4-Dichlorophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Diethyl phthalate	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Dimethyl phthalate	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-18A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2,4-Dinitrophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2,4-Dinitrotoluene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2,6-Dinitrotoluene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Di-n-octyl phthalate	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
1,2-Diphenylhydrazine	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	
Fluoranthene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Fluorene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Hexachlorobenzene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Hexachlorobutadiene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Hexachlorocyclopentadiene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Hexachloroethane	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Isophorone	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Naphthalene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Nitrobenzene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2-Nitrophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
4-Nitrophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
N-Nitrosodimethylamine	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
N-Nitrosodiphenylamine	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Pentachlorophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Phenanthrene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Phenol	ND	5.27	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Pyrene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	
2,4,5-Trichlorophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
2,4,6-Trichlorophenol	ND	2.11	10.5	NA	µg/L	10/17/17 8:22AM	10/17/17 9:02PM	PA/VA
Surr: 2-Fluorophenol	35.1	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 9:02PM	
Surr: Phenol-d5	24.3	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 9:02PM	
Surr: 2,4,6-Tribromophenol	51.9	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 9:02PM	
Surr: Nitrobenzene-d5	59.0	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 9:02PM	
Surr: 2-Fluorobiphenyl	59.5	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 9:02PM	
Surr: 4-Terphenyl-d14	70.1	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 9:02PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 4:14PM	PA/VA
Surr: 2,5-Dibromotoluene	94.0	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 4:14PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-18A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/13/17 9:48PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-18A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 9:48PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	PA/VA
Surr: 1,2-Dichloroethane-d4	121	NA	75.9-132	NA	%Rec		10/13/17 9:48PM	
Surr: 4-Bromofluorobenzene	111	NA	73.6-132	NA	%Rec		10/13/17 9:48PM	
Surr: Dibromofluoromethane	110	NA	80.1-127	NA	%Rec		10/13/17 9:48PM	
Surr: Toluene-d8	103	NA	72.4-119	NA	%Rec		10/13/17 9:48PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 9:48PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 9:48PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-18A	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 9:48PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/13/17 9:48PM	
Surr: 1,2-Dichloroethane-d4	117	NA	70-130	NA	%Rec		10/13/17 9:48PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/13/17 9:48PM	
Surr: Dibromofluoromethane	105	NA	70-130	NA	%Rec		10/13/17 9:48PM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/13/17 9:48PM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-18B	**Matrix:**	Groundwater
Client Sample ID:	DW06C	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.423	0.200	1.00	NA	J	µg/L	10/18/17 9:30AM	10/19/17 7:29PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-19A	**Matrix:**	Groundwater
Client Sample ID:	DW07A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	5.06	0.200	1.00	NA	µg/L	10/18/17 9:30AM	10/19/17 7:35PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00756	0.0199	0.200	µg/L	10/18/17 9:52AM	10/19/17 1:23AM	PA/VA
1,2-Dibromoethane	ND	0.00388	0.0199	0.050	µg/L	10/18/17 9:52AM	10/19/17 1:23AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Acenaphthylene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Anthracene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Benzidine	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Benzo(a)anthracene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Benzo(a)pyrene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Benzo(b)fluoranthene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Benzo(g,h,i)perylene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Benzo(k)fluoranthene	ND	3.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Butyl benzyl phthalate	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
4-Chloro-3-methylphenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2-Chloronaphthalene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2-Chlorophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Chrysene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
o-Cresol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
m,p-Cresol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Di-n-butyl phthalate	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
1,2-Dichlorobenzene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
1,3-Dichlorobenzene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
1,4-Dichlorobenzene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2,4-Dichlorophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Diethyl phthalate	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Dimethyl phthalate	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-19A	**Matrix:**	Groundwater
Client Sample ID:	DW07A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2,4-Dinitrophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2,4-Dinitrotoluene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2,6-Dinitrotoluene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Di-n-octyl phthalate	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
1,2-Diphenylhydrazine	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	
Fluoranthene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Fluorene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Hexachlorobenzene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Hexachlorobutadiene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Hexachlorocyclopentadiene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Hexachloroethane	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Isophorone	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Naphthalene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Nitrobenzene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2-Nitrophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
4-Nitrophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
N-Nitrosodimethylamine	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
N-Nitrosodiphenylamine	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Pentachlorophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Phenanthrene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Phenol	ND	5.01	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Pyrene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	
2,4,5-Trichlorophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
2,4,6-Trichlorophenol	ND	2.00	10.0	NA	µg/L	10/17/17 8:22AM	10/17/17 9:24PM	PA/VA
Surr: 2-Fluorophenol	35.9	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 9:24PM	
Surr: Phenol-d5	28.4	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 9:24PM	
Surr: 2,4,6-Tribromophenol	62.5	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 9:24PM	
Surr: Nitrobenzene-d5	66.7	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 9:24PM	
Surr: 2-Fluorobiphenyl	67.2	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 9:24PM	
Surr: 4-Terphenyl-d14	84.2	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 9:24PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 4:46PM	PA/VA
Surr: 2,5-Dibromotoluene	92.5	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 4:46PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-19A	**Matrix:**	Groundwater
Client Sample ID:	DW07A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	
Acetone	ND	5.00	10.0	NA		µg/L		10/13/17 10:21PM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		10/13/17 10:21PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		10/13/17 10:21PM	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L		10/13/17 10:21PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		10/13/17 10:21PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Chloroform	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,2-Dichloroethane	0.600	0.500	1.00	NA	J	µg/L		10/17/17 8:05PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/13/17 10:21PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-19A	**Matrix:**	Groundwater
Client Sample ID:	DW07A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 10:21PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 10:21PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 10:21PM	PA/VA
Methyl tert-butyl ether	5.40	1.00	5.00	NA	µg/L		10/17/17 8:05PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 10:21PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	PA/VA
Surr: 1,2-Dichloroethane-d4	119	NA	75.9-132	NA	%Rec		10/13/17 10:21PM	
Surr: 4-Bromofluorobenzene	112	NA	73.6-132	NA	%Rec		10/13/17 10:21PM	
Surr: Dibromofluoromethane	107	NA	80.1-127	NA	%Rec		10/13/17 10:21PM	
Surr: Toluene-d8	102	NA	72.4-119	NA	%Rec		10/13/17 10:21PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 10:21PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 10:21PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-19A	**Matrix:**	Groundwater
Client Sample ID:	DW07A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 10:21PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/13/17 10:21PM	
Surr: 1,2-Dichloroethane-d4	115	NA	70-130	NA	%Rec		10/13/17 10:21PM	
Surr: 4-Bromofluorobenzene	100	NA	70-130	NA	%Rec		10/13/17 10:21PM	
Surr: Dibromofluoromethane	102	NA	70-130	NA	%Rec		10/13/17 10:21PM	
Surr: Toluene-d8	100	NA	70-130	NA	%Rec		10/13/17 10:21PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-19B	**Matrix:**	Groundwater
Client Sample ID:	DW07A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.513	0.200	1.00	NA	J	µg/L	10/18/17 9:30AM	10/19/17 7:41PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-20A	**Matrix:**	Groundwater
Client Sample ID:	DW08A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	77.8	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 8:22PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00731	0.0192	0.200	µg/L	10/18/17 9:52AM	10/19/17 1:39AM	PA/VA
1,2-Dibromoethane	ND	0.00375	0.0192	0.050	µg/L	10/18/17 9:52AM	10/19/17 1:39AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Acenaphthylene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Benzidine	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Benzo(a)anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Benzo(a)pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Benzo(b)fluoranthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Benzo(g,h,i)perylene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Benzo(k)fluoranthene	ND	3.04	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Butyl benzyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
4-Chloro-3-methylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2-Chloronaphthalene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2-Chlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Chrysene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
o-Cresol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
m,p-Cresol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Di-n-butyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
1,2-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
1,3-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
1,4-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2,4-Dichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Diethyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Dimethyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA

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WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-20A	**Matrix:**	Groundwater
Client Sample ID:	DW08A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2,4-Dinitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2,4-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2,6-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Di-n-octyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
1,2-Diphenylhydrazine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	
Fluoranthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Fluorene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Hexachlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Hexachlorobutadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Hexachlorocyclopentadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Hexachloroethane	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Isophorone	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Naphthalene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Nitrobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
4-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
N-Nitrosodimethylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
N-Nitrosodiphenylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Pentachlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Phenanthrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Phenol	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	
2,4,5-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
2,4,6-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 9:46PM	PA/VA
Surr: 2-Fluorophenol	31.5	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 9:46PM	
Surr: Phenol-d5	22.1	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 9:46PM	
Surr: 2,4,6-Tribromophenol	58.9	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 9:46PM	
Surr: Nitrobenzene-d5	62.4	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 9:46PM	
Surr: 2-Fluorobiphenyl	65.6	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 9:46PM	
Surr: 4-Terphenyl-d14	76.2	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 9:46PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 5:18PM	PA/VA
Surr: 2,5-Dibromotoluene	93.8	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 5:18PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-20A	**Matrix:**	Groundwater
Client Sample ID:	DW08A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/13/17 10:54PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-20A	**Matrix:**	Groundwater
Client Sample ID:	DW08A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 10:54PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	PA/VA
Surr: 1,2-Dichloroethane-d4	120	NA	75.9-132	NA	%Rec		10/13/17 10:54PM	
Surr: 4-Bromofluorobenzene	112	NA	73.6-132	NA	%Rec		10/13/17 10:54PM	
Surr: Dibromofluoromethane	111	NA	80.1-127	NA	%Rec		10/13/17 10:54PM	
Surr: Toluene-d8	103	NA	72.4-119	NA	%Rec		10/13/17 10:54PM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL — **Method: SW8260B** — **Analyst: JM**

tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 10:54PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 10:54PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-20A	**Matrix:**	Groundwater
Client Sample ID:	DW08A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 10:54PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/13/17 10:54PM	
Surr: 1,2-Dichloroethane-d4	116	NA	70-130	NA	%Rec		10/13/17 10:54PM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/13/17 10:54PM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		10/13/17 10:54PM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/13/17 10:54PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:50:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-20B	**Matrix:**	Groundwater
Client Sample ID:	DW08A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	4.03	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 8:39PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:05:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-21A	**Matrix:**	Groundwater
Client Sample ID:	DW08B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**
Lead	66.6	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 8:45PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
1,2-Dibromo-3-chloropropane	ND	0.00750	0.0197	0.200	µg/L	10/18/17 12:20PM	10/19/17 4:35AM	PA/VA
1,2-Dibromoethane	ND	0.00385	0.0197	0.050	µg/L	10/18/17 12:20PM	10/19/17 4:35AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**
Acenaphthene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Acenaphthylene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Anthracene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Benzidine	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Benzo(a)anthracene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Benzo(a)pyrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Benzo(b)fluoranthene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Benzo(g,h,i)perylene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Benzo(k)fluoranthene	ND	3.02	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Butyl benzyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
4-Chloro-3-methylphenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2-Chloronaphthalene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2-Chlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Chrysene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
o-Cresol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
m,p-Cresol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Di-n-butyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
1,2-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
1,3-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
1,4-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2,4-Dichlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Diethyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Dimethyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:05:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-21A	**Matrix:**	Groundwater
Client Sample ID:	DW08B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2,4-Dinitrophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2,4-Dinitrotoluene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2,6-Dinitrotoluene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Di-n-octyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
1,2-Diphenylhydrazine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	
Fluoranthene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Fluorene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Hexachlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Hexachlorobutadiene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Hexachlorocyclopentadiene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Hexachloroethane	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Isophorone	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Naphthalene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Nitrobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2-Nitrophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
4-Nitrophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
N-Nitrosodimethylamine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
N-Nitrosodiphenylamine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Pentachlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Phenanthrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Phenol	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Pyrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	
2,4,5-Trichlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
2,4,6-Trichlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/17/17 10:08PM	PA/VA
Surr: 2-Fluorophenol	37.2	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 10:08PM	
Surr: Phenol-d5	27.2	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 10:08PM	
Surr: 2,4,6-Tribromophenol	61.1	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 10:08PM	
Surr: Nitrobenzene-d5	66.6	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 10:08PM	
Surr: 2-Fluorobiphenyl	65.1	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 10:08PM	
Surr: 4-Terphenyl-d14	85.3	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 10:08PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 5:49PM	PA/VA
Surr: 2,5-Dibromotoluene	88.9	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 5:49PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:05:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-21A	**Matrix:**	Groundwater
Client Sample ID:	DW08B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/13/17 11:27PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:05:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-21A	**Matrix:**	Groundwater
Client Sample ID:	DW08B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Tetrachloroethene	1.32	0.500	1.00	NA	µg/L		10/17/17 7:32PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/13/17 11:27PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	PA/VA
Surr: 1,2-Dichloroethane-d4	120	NA	75.9-132	NA	%Rec		10/13/17 11:27PM	
Surr: 4-Bromofluorobenzene	110	NA	73.6-132	NA	%Rec		10/13/17 11:27PM	
Surr: Dibromofluoromethane	110	NA	80.1-127	NA	%Rec		10/13/17 11:27PM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/13/17 11:27PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/13/17 11:27PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/13/17 11:27PM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:05:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-21A	**Matrix:**	Groundwater
Client Sample ID:	DW08B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/13/17 11:27PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/13/17 11:27PM	
Surr: 1,2-Dichloroethane-d4	116	NA	70-130	NA	%Rec		10/13/17 11:27PM	
Surr: 4-Bromofluorobenzene	99.9	NA	70-130	NA	%Rec		10/13/17 11:27PM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		10/13/17 11:27PM	
Surr: Toluene-d8	99.2	NA	70-130	NA	%Rec		10/13/17 11:27PM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:05:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-21B	**Matrix:**	Groundwater
Client Sample ID:	DW08B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	10.6	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 8:51PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-22A	**Matrix:**	Groundwater
Client Sample ID:	DW09A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.407	0.200	1.00	NA	J	µg/L	10/18/17 12:15PM	10/19/17 8:57PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00744	0.0196	0.200		µg/L	10/18/17 12:20PM	10/19/17 4:51AM	PA/VA
1,2-Dibromoethane	ND	0.00382	0.0196	0.050		µg/L	10/18/17 12:20PM	10/19/17 4:51AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Acenaphthylene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Anthracene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Benzidine	ND	5.19	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Benzo(a)anthracene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Benzo(a)pyrene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Benzo(b)fluoranthene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Benzo(g,h,i)perylene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Benzo(k)fluoranthene	ND	3.11	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.19	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Butyl benzyl phthalate	ND	5.19	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
4-Chloro-3-methylphenol	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2-Chloronaphthalene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2-Chlorophenol	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Chrysene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
o-Cresol	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
m,p-Cresol	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Di-n-butyl phthalate	ND	5.19	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
1,2-Dichlorobenzene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
1,3-Dichlorobenzene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
1,4-Dichlorobenzene	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.19	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2,4-Dichlorophenol	ND	2.08	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Diethyl phthalate	ND	5.19	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Dimethyl phthalate	ND	5.19	10.4	NA		µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-22A	**Matrix:**	Groundwater
Client Sample ID:	DW09A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2,4-Dinitrophenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2,4-Dinitrotoluene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2,6-Dinitrotoluene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Di-n-octyl phthalate	ND	5.19	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
1,2-Diphenylhydrazine	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	
Fluoranthene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Fluorene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Hexachlorobenzene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Hexachlorobutadiene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Hexachlorocyclopentadiene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Hexachloroethane	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Isophorone	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Naphthalene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Nitrobenzene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2-Nitrophenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
4-Nitrophenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
N-Nitrosodimethylamine	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
N-Nitrosodiphenylamine	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Pentachlorophenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Phenanthrene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Phenol	ND	5.19	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Pyrene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	
2,4,5-Trichlorophenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
2,4,6-Trichlorophenol	ND	2.08	10.4	NA	µg/L	10/17/17 8:22AM	10/17/17 10:30PM	PA/VA
Surr: 2-Fluorophenol	37.0	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 10:30PM	
Surr: Phenol-d5	26.1	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 10:30PM	
Surr: 2,4,6-Tribromophenol	60.8	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 10:30PM	
Surr: Nitrobenzene-d5	69.4	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 10:30PM	
Surr: 2-Fluorobiphenyl	67.5	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 10:30PM	
Surr: 4-Terphenyl-d14	78.8	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 10:30PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 6:20PM	PA/VA
Surr: 2,5-Dibromotoluene	86.7	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 6:20PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-22A	**Matrix:**	Groundwater
Client Sample ID:	DW09A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 5:32AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA

REI Consultants, Inc. - Analytical Report

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-22A	**Matrix:**	Groundwater
Client Sample ID:	DW09A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 5:32AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	PA/VA
Surr: 1,2-Dichloroethane-d4	120	NA	75.9-132	NA	%Rec		10/14/17 5:32AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		10/14/17 5:32AM	
Surr: Dibromofluoromethane	105	NA	80.1-127	NA	%Rec		10/14/17 5:32AM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/14/17 5:32AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 5:32AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 5:32AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-22A	**Matrix:**	Groundwater
Client Sample ID:	DW09A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 5:32AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 5:32AM	
Surr: 1,2-Dichloroethane-d4	120	NA	70-130	NA	%Rec		10/14/17 5:32AM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/14/17 5:32AM	
Surr: Dibromofluoromethane	105	NA	70-130	NA	%Rec		10/14/17 5:32AM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/14/17 5:32AM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 4:00:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-22B	**Matrix:**	Groundwater
Client Sample ID:	DW09A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 9:03PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:10:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-23A	**Matrix:**	Groundwater
Client Sample ID:	DW09B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	2.09	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 9:08PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00747	0.0196	0.200	µg/L	10/18/17 12:20PM	10/19/17 5:07AM	PA/VA
1,2-Dibromoethane	ND	0.00383	0.0196	0.050	µg/L	10/18/17 12:20PM	10/19/17 5:07AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Acenaphthylene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Anthracene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Benzidine	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Benzo(a)anthracene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Benzo(a)pyrene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Benzo(b)fluoranthene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Benzo(g,h,i)perylene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Benzo(k)fluoranthene	ND	3.07	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Butyl benzyl phthalate	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
4-Chloro-3-methylphenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2-Chloronaphthalene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2-Chlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Chrysene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
o-Cresol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
m,p-Cresol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Di-n-butyl phthalate	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
1,2-Dichlorobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
1,3-Dichlorobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
1,4-Dichlorobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2,4-Dichlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Diethyl phthalate	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Dimethyl phthalate	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:10:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-23A	**Matrix:**	Groundwater
Client Sample ID:	DW09B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2,4-Dinitrophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2,4-Dinitrotoluene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2,6-Dinitrotoluene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Di-n-octyl phthalate	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
1,2-Diphenylhydrazine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	
Fluoranthene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Fluorene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Hexachlorobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Hexachlorobutadiene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Hexachlorocyclopentadiene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Hexachloroethane	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Isophorone	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Naphthalene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Nitrobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2-Nitrophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
4-Nitrophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
N-Nitrosodimethylamine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
N-Nitrosodiphenylamine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Pentachlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Phenanthrene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Phenol	ND	5.12	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Pyrene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	
2,4,5-Trichlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
2,4,6-Trichlorophenol	ND	2.05	10.2	NA	µg/L	10/17/17 8:22AM	10/17/17 10:51PM	PA/VA
Surr: 2-Fluorophenol	33.0	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/17/17 10:51PM	
Surr: Phenol-d5	24.6	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/17/17 10:51PM	
Surr: 2,4,6-Tribromophenol	58.0	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/17/17 10:51PM	
Surr: Nitrobenzene-d5	62.1	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/17/17 10:51PM	
Surr: 2-Fluorobiphenyl	61.8	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/17/17 10:51PM	
Surr: 4-Terphenyl-d14	71.8	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/17/17 10:51PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 6:52PM	PA/VA
Surr: 2,5-Dibromotoluene	91.8	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 6:52PM	

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:10:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-23A	**Matrix:**	Groundwater
Client Sample ID:	DW09B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 6:05AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:10:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-23A	**Matrix:**	Groundwater
Client Sample ID:	DW09B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 6:05AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	75.9-132	NA	%Rec		10/14/17 6:05AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		10/14/17 6:05AM	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA	%Rec		10/14/17 6:05AM	
Surr: Toluene-d8	99.6	NA	72.4-119	NA	%Rec		10/14/17 6:05AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 6:05AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 6:05AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:10:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-23A	**Matrix:**	Groundwater
Client Sample ID:	DW09B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 6:05AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 6:05AM	
Surr: 1,2-Dichloroethane-d4	117	NA	70-130	NA	%Rec		10/14/17 6:05AM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/14/17 6:05AM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		10/14/17 6:05AM	
Surr: Toluene-d8	99.6	NA	70-130	NA	%Rec		10/14/17 6:05AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 2:10:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-23B	**Matrix:**	Groundwater
Client Sample ID:	DW09B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 9:26PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:08:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-24A	**Matrix:**	Groundwater
Client Sample ID:	DW11A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	1.30	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 9:32PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00784	0.0206	0.200	µg/L	10/18/17 12:20PM	10/19/17 5:23AM	PA/VA
1,2-Dibromoethane	ND	0.00402	0.0206	0.050	µg/L	10/18/17 12:20PM	10/19/17 5:23AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Acenaphthylene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Anthracene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Benzidine	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Benzo(a)anthracene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Benzo(a)pyrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Benzo(b)fluoranthene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Benzo(g,h,i)perylene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Benzo(k)fluoranthene	ND	3.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Butyl benzyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
4-Chloro-3-methylphenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2-Chloronaphthalene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2-Chlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Chrysene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
o-Cresol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
m,p-Cresol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Di-n-butyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
1,2-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
1,3-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
1,4-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2,4-Dichlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Diethyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Dimethyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:08:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-24A	**Matrix:**	Groundwater
Client Sample ID:	DW11A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2,4-Dinitrophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2,4-Dinitrotoluene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2,6-Dinitrotoluene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Di-n-octyl phthalate	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
1,2-Diphenylhydrazine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	
Fluoranthene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Fluorene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Hexachlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Hexachlorobutadiene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Hexachlorocyclopentadiene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Hexachloroethane	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Isophorone	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Naphthalene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Nitrobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2-Nitrophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
4-Nitrophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
N-Nitrosodimethylamine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
N-Nitrosodiphenylamine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Pentachlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Phenanthrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Phenol	ND	5.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Pyrene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	
2,4,5-Trichlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
2,4,6-Trichlorophenol	ND	2.01	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 2:43PM	PA/VA
Surr: 2-Fluorophenol	32.8	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 2:43PM	
Surr: Phenol-d5	24.0	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 2:43PM	
Surr: 2,4,6-Tribromophenol	65.9	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 2:43PM	
Surr: Nitrobenzene-d5	68.5	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 2:43PM	
Surr: 2-Fluorobiphenyl	61.3	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 2:43PM	
Surr: 4-Terphenyl-d14	82.1	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 2:43PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 7:24PM	PA/VA
Surr: 2,5-Dibromotoluene	95.4	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 7:24PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:08:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-24A	**Matrix:**	Groundwater
Client Sample ID:	DW11A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 6:38AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:08:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-24A	**Matrix:**	Groundwater
Client Sample ID:	DW11A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 6:38AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	PA/VA
Surr: 1,2-Dichloroethane-d4	119	NA	75.9-132	NA	%Rec		10/14/17 6:38AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec		10/14/17 6:38AM	
Surr: Dibromofluoromethane	106	NA	80.1-127	NA	%Rec		10/14/17 6:38AM	
Surr: Toluene-d8	100	NA	72.4-119	NA	%Rec		10/14/17 6:38AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 6:38AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 6:38AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:08:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-24A	**Matrix:**	Groundwater
Client Sample ID:	DW11A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 6:38AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 6:38AM	
Surr: 1,2-Dichloroethane-d4	119	NA	70-130	NA	%Rec		10/14/17 6:38AM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/14/17 6:38AM	
Surr: Dibromofluoromethane	106	NA	70-130	NA	%Rec		10/14/17 6:38AM	
Surr: Toluene-d8	100	NA	70-130	NA	%Rec		10/14/17 6:38AM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:08:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-24B	**Matrix:**	Groundwater
Client Sample ID:	DW11A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.471	0.200	1.00	NA	J	µg/L	10/18/17 12:15PM	10/19/17 9:38PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:45:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-25A	**Matrix:**	Groundwater
Client Sample ID:	DW12A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	3.29	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 9:44PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00731	0.0192	0.200	µg/L	10/18/17 12:20PM	10/19/17 5:39AM	PA/VA
1,2-Dibromoethane	ND	0.00375	0.0192	0.050	µg/L	10/18/17 12:20PM	10/19/17 5:39AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Acenaphthylene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Benzidine	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Benzo(a)anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Benzo(a)pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Benzo(b)fluoranthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Benzo(g,h,i)perylene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Benzo(k)fluoranthene	ND	3.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Butyl benzyl phthalate	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
4-Chloro-3-methylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2-Chloronaphthalene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2-Chlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Chrysene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
o-Cresol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
m,p-Cresol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Di-n-butyl phthalate	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
1,2-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
1,3-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
1,4-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2,4-Dichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Diethyl phthalate	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Dimethyl phthalate	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:45:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-25A	**Matrix:**	Groundwater
Client Sample ID:	DW12A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2,4-Dinitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2,4-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2,6-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Di-n-octyl phthalate	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
1,2-Diphenylhydrazine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	
Fluoranthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Fluorene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Hexachlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Hexachlorobutadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Hexachlorocyclopentadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Hexachloroethane	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Isophorone	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Naphthalene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Nitrobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
4-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
N-Nitrosodimethylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
N-Nitrosodiphenylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Pentachlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Phenanthrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Phenol	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	
2,4,5-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
2,4,6-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:05PM	PA/VA
Surr: 2-Fluorophenol	31.6	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 3:05PM	
Surr: Phenol-d5	23.6	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 3:05PM	
Surr: 2,4,6-Tribromophenol	58.9	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 3:05PM	
Surr: Nitrobenzene-d5	65.4	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 3:05PM	
Surr: 2-Fluorobiphenyl	60.0	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 3:05PM	
Surr: 4-Terphenyl-d14	74.7	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 3:05PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 7:54PM	PA/VA
Surr: 2,5-Dibromotoluene	88.2	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 7:54PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:45:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-25A	**Matrix:**	Groundwater
Client Sample ID:	DW12A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 7:11AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:45:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-25A	**Matrix:**	Groundwater
Client Sample ID:	DW12A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 7:11AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	75.9-132	NA	%Rec		10/14/17 7:11AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec		10/14/17 7:11AM	
Surr: Dibromofluoromethane	105	NA	80.1-127	NA	%Rec		10/14/17 7:11AM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/14/17 7:11AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 7:11AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 7:11AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:45:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-25A	**Matrix:**	Groundwater
Client Sample ID:	DW12A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 7:11AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 7:11AM	
Surr: 1,2-Dichloroethane-d4	117	NA	70-130	NA	%Rec		10/14/17 7:11AM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/14/17 7:11AM	
Surr: Dibromofluoromethane	105	NA	70-130	NA	%Rec		10/14/17 7:11AM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/14/17 7:11AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:45:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-25B	**Matrix:**	Groundwater
Client Sample ID:	DW12A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.703	0.200	1.00	NA	J	µg/L	10/18/17 12:15PM	10/19/17 9:50PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-26A	**Matrix:**	Groundwater
Client Sample ID:	DW14A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	113	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 9:56PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00751	0.0198	0.200	µg/L	10/18/17 12:20PM	10/19/17 5:55AM	PA/VA
1,2-Dibromoethane	ND	0.00385	0.0198	0.050	µg/L	10/18/17 12:20PM	10/19/17 5:55AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Acenaphthylene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Benzidine	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Benzo(a)anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Benzo(a)pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Benzo(b)fluoranthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Benzo(g,h,i)perylene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Benzo(k)fluoranthene	ND	3.03	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Butyl benzyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
4-Chloro-3-methylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2-Chloronaphthalene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2-Chlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Chrysene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
o-Cresol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
m,p-Cresol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Di-n-butyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
1,2-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
1,3-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
1,4-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2,4-Dichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Diethyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Dimethyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-26A	**Matrix:**	Groundwater
Client Sample ID:	DW14A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2,4-Dinitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2,4-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2,6-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Di-n-octyl phthalate	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
1,2-Diphenylhydrazine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	
Fluoranthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Fluorene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Hexachlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Hexachlorobutadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Hexachlorocyclopentadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Hexachloroethane	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Isophorone	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Naphthalene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Nitrobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
4-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
N-Nitrosodimethylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
N-Nitrosodiphenylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Pentachlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Phenanthrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Phenol	ND	5.06	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	
2,4,5-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
2,4,6-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 3:27PM	PA/VA
Surr: 2-Fluorophenol	24.0	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 3:27PM	
Surr: Phenol-d5	18.2	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 3:27PM	
Surr: 2,4,6-Tribromophenol	48.9	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 3:27PM	
Surr: Nitrobenzene-d5	51.3	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 3:27PM	
Surr: 2-Fluorobiphenyl	49.6	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 3:27PM	
Surr: 4-Terphenyl-d14	61.2	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 3:27PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 8:37PM	PA/VA
Surr: 2,5-Dibromotoluene	90.4	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 8:37PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-26A	**Matrix:**	Groundwater
Client Sample ID:	DW14A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 7:44AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-26A	**Matrix:**	Groundwater
Client Sample ID:	DW14A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 7:44AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	75.9-132	NA	%Rec		10/14/17 7:44AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec		10/14/17 7:44AM	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA	%Rec		10/14/17 7:44AM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/14/17 7:44AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 7:44AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 7:44AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-26A	**Matrix:**	Groundwater
Client Sample ID:	DW14A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 7:44AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 7:44AM	
Surr: 1,2-Dichloroethane-d4	116	NA	70-130	NA	%Rec		10/14/17 7:44AM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/14/17 7:44AM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		10/14/17 7:44AM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/14/17 7:44AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:40:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-26B	**Matrix:**	Groundwater
Client Sample ID:	DW14A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	14.8	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 10:02PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 5:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-27A	**Matrix:**	Groundwater
Client Sample ID:	DW16A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.638	0.200	1.00	NA	J	µg/L	10/18/17 12:15PM	10/19/17 10:07PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00742	0.0195	0.200		µg/L	10/18/17 12:20PM	10/19/17 6:11AM	PA/VA
1,2-Dibromoethane	ND	0.00381	0.0195	0.050		µg/L	10/18/17 12:20PM	10/19/17 6:11AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Acenaphthylene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Anthracene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Benzidine	ND	5.08	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Benzo(a)anthracene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Benzo(a)pyrene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Benzo(b)fluoranthene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Benzo(g,h,i)perylene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Benzo(k)fluoranthene	ND	3.05	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.08	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Butyl benzyl phthalate	ND	5.08	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
4-Chloro-3-methylphenol	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2-Chloronaphthalene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2-Chlorophenol	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Chrysene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
o-Cresol	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
m,p-Cresol	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Di-n-butyl phthalate	ND	5.08	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
1,2-Dichlorobenzene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
1,3-Dichlorobenzene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
1,4-Dichlorobenzene	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.08	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2,4-Dichlorophenol	ND	2.03	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Diethyl phthalate	ND	5.08	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Dimethyl phthalate	ND	5.08	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 5:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-27A	**Matrix:**	Groundwater
Client Sample ID:	DW16A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2,4-Dinitrophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2,4-Dinitrotoluene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2,6-Dinitrotoluene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Di-n-octyl phthalate	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
1,2-Diphenylhydrazine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	
Fluoranthene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Fluorene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Hexachlorobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Hexachlorobutadiene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Hexachlorocyclopentadiene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Hexachloroethane	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Isophorone	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Naphthalene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Nitrobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2-Nitrophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
4-Nitrophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
N-Nitrosodimethylamine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
N-Nitrosodiphenylamine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Pentachlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Phenanthrene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Phenol	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Pyrene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	
2,4,5-Trichlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
2,4,6-Trichlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 3:49PM	PA/VA
Surr: 2-Fluorophenol	41.9	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 3:49PM	
Surr: Phenol-d5	30.7	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 3:49PM	
Surr: 2,4,6-Tribromophenol	106	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 3:49PM	
Surr: Nitrobenzene-d5	118	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 3:49PM	
Surr: 2-Fluorobiphenyl	106	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 3:49PM	
Surr: 4-Terphenyl-d14	105	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 3:49PM	
VOLATILE RANGE ORGANICS			**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 9:08PM	PA/VA
Surr: 2,5-Dibromotoluene	86.0	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 9:08PM	

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 5:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-27A	**Matrix:**	Groundwater
Client Sample ID:	DW16A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 8:17AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA

REI Consultants, Inc. - Analytical Report

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 5:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-27A	**Matrix:**	Groundwater
Client Sample ID:	DW16A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 8:17AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	75.9-132	NA	%Rec		10/14/17 8:17AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		10/14/17 8:17AM	
Surr: Dibromofluoromethane	102	NA	80.1-127	NA	%Rec		10/14/17 8:17AM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/14/17 8:17AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 8:17AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 8:17AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 5:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-27A	**Matrix:**	Groundwater
Client Sample ID:	DW16A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 8:17AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 8:17AM	
Surr: 1,2-Dichloroethane-d4	117	NA	70-130	NA	%Rec		10/14/17 8:17AM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/14/17 8:17AM	
Surr: Dibromofluoromethane	102	NA	70-130	NA	%Rec		10/14/17 8:17AM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/14/17 8:17AM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 5:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-27B	**Matrix:**	Groundwater
Client Sample ID:	DW16A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 10:13PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:05:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-28A	**Matrix:**	Groundwater
Client Sample ID:	DW17A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	46.3	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 10:19PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00737	0.0194	0.200	µg/L	10/18/17 12:20PM	10/19/17 6:27AM	PA/VA
1,2-Dibromoethane	ND	0.00378	0.0194	0.050	µg/L	10/18/17 12:20PM	10/19/17 6:27AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Acenaphthylene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Anthracene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Benzidine	ND	5.14	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Benzo(a)anthracene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Benzo(a)pyrene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Benzo(b)fluoranthene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Benzo(g,h,i)perylene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Benzo(k)fluoranthene	ND	3.08	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.14	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Butyl benzyl phthalate	ND	5.14	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
4-Chloro-3-methylphenol	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2-Chloronaphthalene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2-Chlorophenol	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Chrysene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
o-Cresol	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
m,p-Cresol	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Di-n-butyl phthalate	ND	5.14	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
1,2-Dichlorobenzene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
1,3-Dichlorobenzene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
1,4-Dichlorobenzene	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.14	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2,4-Dichlorophenol	ND	2.06	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Diethyl phthalate	ND	5.14	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Dimethyl phthalate	ND	5.14	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:05:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-28A	**Matrix:**	Groundwater
Client Sample ID:	DW17A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2,4-Dinitrophenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2,4-Dinitrotoluene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2,6-Dinitrotoluene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Di-n-octyl phthalate	ND	5.14	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
1,2-Diphenylhydrazine	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	
Fluoranthene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Fluorene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Hexachlorobenzene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Hexachlorobutadiene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Hexachlorocyclopentadiene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Hexachloroethane	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Isophorone	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Naphthalene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Nitrobenzene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2-Nitrophenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
4-Nitrophenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
N-Nitrosodimethylamine	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
N-Nitrosodiphenylamine	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Pentachlorophenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Phenanthrene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Phenol	ND	5.14	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Pyrene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	
2,4,5-Trichlorophenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
2,4,6-Trichlorophenol	ND	2.06	10.3	NA		µg/L	10/17/17 8:22AM	10/18/17 4:11PM	PA/VA
Surr: 2-Fluorophenol	7.52	NA	17.6-120	NA	S	%Rec	10/17/17 8:22AM	10/18/17 4:11PM	
Surr: Phenol-d5	8.20	NA	11.4-120	NA	S	%Rec	10/17/17 8:22AM	10/18/17 4:11PM	
Surr: 2,4,6-Tribromophenol	11.9	NA	18-129	NA	S	%Rec	10/17/17 8:22AM	10/18/17 4:11PM	
Surr: Nitrobenzene-d5	47.4	NA	21.5-122	NA		%Rec	10/17/17 8:22AM	10/18/17 4:11PM	
Surr: 2-Fluorobiphenyl	44.0	NA	23.7-127	NA		%Rec	10/17/17 8:22AM	10/18/17 4:11PM	
Surr: 4-Terphenyl-d14	62.5	NA	39.9-124	NA		%Rec	10/17/17 8:22AM	10/18/17 4:11PM	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE RANGE ORGANICS **Method: SW8015C** **Analyst: CB**

TPH (Gasoline Range: C6 - C10)	ND	250	500	NA		µg/L	10/13/17 12:37PM	10/17/17 9:39PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:05:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-28A	**Matrix:**	Groundwater
Client Sample ID:	DW17A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Surr: 2,5-Dibromotoluene	84.9	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 9:39PM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 8:50AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA

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WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:05:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-28A	**Matrix:**	Groundwater
Client Sample ID:	DW17A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 8:50AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	75.9-132	NA	%Rec		10/14/17 8:50AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		10/14/17 8:50AM	
Surr: Dibromofluoromethane	103	NA	80.1-127	NA	%Rec		10/14/17 8:50AM	
Surr: Toluene-d8	100	NA	72.4-119	NA	%Rec		10/14/17 8:50AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:05:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-28A	**Matrix:**	Groundwater
Client Sample ID:	DW17A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 8:50AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 8:50AM	
Ethanol	ND	100	200	NA	µg/L		10/14/17 8:50AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 8:50AM	
Surr: 1,2-Dichloroethane-d4	117	NA	70-130	NA	%Rec		10/14/17 8:50AM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/14/17 8:50AM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		10/14/17 8:50AM	
Surr: Toluene-d8	100	NA	70-130	NA	%Rec		10/14/17 8:50AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 10:05:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-28B	**Matrix:**	Groundwater
Client Sample ID:	DW17A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.529	0.200	1.00	NA	J	µg/L	10/18/17 12:15PM	10/19/17 10:36PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-29A	**Matrix:**	Groundwater
Client Sample ID:	DW17B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	5.90	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 10:42PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00743	0.0196	0.200	µg/L	10/18/17 12:20PM	10/19/17 6:43AM	PA/VA
1,2-Dibromoethane	ND	0.00381	0.0196	0.050	µg/L	10/18/17 12:20PM	10/19/17 6:43AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Acenaphthylene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Anthracene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Benzidine	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Benzo(a)anthracene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Benzo(a)pyrene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Benzo(b)fluoranthene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Benzo(g,h,i)perylene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Benzo(k)fluoranthene	ND	3.08	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Butyl benzyl phthalate	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
4-Chloro-3-methylphenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2-Chloronaphthalene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2-Chlorophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Chrysene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
o-Cresol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
m,p-Cresol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Di-n-butyl phthalate	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
1,2-Dichlorobenzene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
1,3-Dichlorobenzene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
1,4-Dichlorobenzene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2,4-Dichlorophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Diethyl phthalate	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Dimethyl phthalate	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-29A	**Matrix:**	Groundwater
Client Sample ID:	DW17B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2,4-Dinitrophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2,4-Dinitrotoluene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2,6-Dinitrotoluene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Di-n-octyl phthalate	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
1,2-Diphenylhydrazine	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	
Fluoranthene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Fluorene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Hexachlorobenzene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Hexachlorobutadiene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Hexachlorocyclopentadiene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Hexachloroethane	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Isophorone	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Naphthalene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Nitrobenzene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2-Nitrophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
4-Nitrophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
N-Nitrosodimethylamine	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
N-Nitrosodiphenylamine	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Pentachlorophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Phenanthrene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Phenol	ND	5.13	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Pyrene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	
2,4,5-Trichlorophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
2,4,6-Trichlorophenol	ND	2.05	10.3	NA	µg/L	10/17/17 8:22AM	10/18/17 4:33PM	PA/VA
Surr: 2-Fluorophenol	36.4	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 4:33PM	
Surr: Phenol-d5	26.9	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 4:33PM	
Surr: 2,4,6-Tribromophenol	58.5	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 4:33PM	
Surr: Nitrobenzene-d5	68.8	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 4:33PM	
Surr: 2-Fluorobiphenyl	65.8	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 4:33PM	
Surr: 4-Terphenyl-d14	75.2	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 4:33PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 10:10PM	PA/VA
Surr: 2,5-Dibromotoluene	89.1	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 10:10PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-29A	**Matrix:**	Groundwater
Client Sample ID:	DW17B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 9:23AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-29A	**Matrix:**	Groundwater
Client Sample ID:	DW17B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 9:23AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	PA/VA
Surr: 1,2-Dichloroethane-d4	115	NA	75.9-132	NA	%Rec		10/14/17 9:23AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		10/14/17 9:23AM	
Surr: Dibromofluoromethane	103	NA	80.1-127	NA	%Rec		10/14/17 9:23AM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/14/17 9:23AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 9:23AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 9:23AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-29A	**Matrix:**	Groundwater
Client Sample ID:	DW17B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 9:23AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 9:23AM	
Surr: 1,2-Dichloroethane-d4	115	NA	70-130	NA	%Rec		10/14/17 9:23AM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/14/17 9:23AM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		10/14/17 9:23AM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/14/17 9:23AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 11:30:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-29B	**Matrix:**	Groundwater
Client Sample ID:	DW17B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 12:15PM	10/19/17 10:54PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-30A	**Matrix:**	Groundwater
Client Sample ID:	DW18A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.753	0.200	1.00	NA	J	µg/L	10/18/17 1:45PM	10/19/17 2:32PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00752	0.0198	0.200		µg/L	10/18/17 12:20PM	10/19/17 6:59AM	PA/VA
1,2-Dibromoethane	ND	0.00386	0.0198	0.050		µg/L	10/18/17 12:20PM	10/19/17 6:59AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Acenaphthylene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Anthracene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Benzidine	ND	5.04	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Benzo(a)anthracene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Benzo(a)pyrene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Benzo(b)fluoranthene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Benzo(g,h,i)perylene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Benzo(k)fluoranthene	ND	3.03	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.04	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Butyl benzyl phthalate	ND	5.04	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
4-Chloro-3-methylphenol	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2-Chloronaphthalene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2-Chlorophenol	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Chrysene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
o-Cresol	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
m,p-Cresol	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Di-n-butyl phthalate	ND	5.04	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
1,2-Dichlorobenzene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
1,3-Dichlorobenzene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
1,4-Dichlorobenzene	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.04	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2,4-Dichlorophenol	ND	2.02	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Diethyl phthalate	ND	5.04	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Dimethyl phthalate	ND	5.04	10.1	NA		µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-30A	**Matrix:**	Groundwater
Client Sample ID:	DW18A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2,4-Dinitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2,4-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2,6-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Di-n-octyl phthalate	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
1,2-Diphenylhydrazine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	
Fluoranthene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Fluorene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Hexachlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Hexachlorobutadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Hexachlorocyclopentadiene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Hexachloroethane	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Isophorone	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Naphthalene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Nitrobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
4-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
N-Nitrosodimethylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
N-Nitrosodiphenylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Pentachlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Phenanthrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Phenol	ND	5.04	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Pyrene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	
2,4,5-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
2,4,6-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/17/17 8:22AM	10/18/17 4:55PM	PA/VA
Surr: 2-Fluorophenol	37.6	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 4:55PM	
Surr: Phenol-d5	26.0	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 4:55PM	
Surr: 2,4,6-Tribromophenol	62.3	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 4:55PM	
Surr: Nitrobenzene-d5	68.2	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 4:55PM	
Surr: 2-Fluorobiphenyl	64.3	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 4:55PM	
Surr: 4-Terphenyl-d14	83.6	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 4:55PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 10:42PM	PA/VA
Surr: 2,5-Dibromotoluene	91.1	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 10:42PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-30A	**Matrix:**	Groundwater
Client Sample ID:	DW18A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 9:57AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA

REI Consultants, Inc. - Analytical Report

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-30A	**Matrix:**	Groundwater
Client Sample ID:	DW18A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 9:57AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	PA/VA
Surr: 1,2-Dichloroethane-d4	115	NA	75.9-132	NA	%Rec		10/14/17 9:57AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec		10/14/17 9:57AM	
Surr: Dibromofluoromethane	105	NA	80.1-127	NA	%Rec		10/14/17 9:57AM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		10/14/17 9:57AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 9:57AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 9:57AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-30A	**Matrix:**	Groundwater
Client Sample ID:	DW18A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 9:57AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 9:57AM	
Surr: 1,2-Dichloroethane-d4	115	NA	70-130	NA	%Rec		10/14/17 9:57AM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/14/17 9:57AM	
Surr: Dibromofluoromethane	105	NA	70-130	NA	%Rec		10/14/17 9:57AM	
Surr: Toluene-d8	101	NA	70-130	NA	%Rec		10/14/17 9:57AM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 4:20:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-30B	**Matrix:**	Groundwater
Client Sample ID:	DW18A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 1:45PM	10/19/17 2:49PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-31A	**Matrix:**	Groundwater
Client Sample ID:	DW33A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	2.78	0.200	1.00	NA	µg/L	10/18/17 1:45PM	10/19/17 2:55PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00756	0.0199	0.200	µg/L	10/18/17 12:20PM	10/19/17 7:15AM	PA/VA
1,2-Dibromoethane	ND	0.00388	0.0199	0.050	µg/L	10/18/17 12:20PM	10/19/17 7:15AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Acenaphthylene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Anthracene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Benzidine	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Benzo(a)anthracene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Benzo(a)pyrene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Benzo(b)fluoranthene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Benzo(g,h,i)perylene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Benzo(k)fluoranthene	ND	3.05	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Butyl benzyl phthalate	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
4-Chloro-3-methylphenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2-Chloronaphthalene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2-Chlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Chrysene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
o-Cresol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
m,p-Cresol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Di-n-butyl phthalate	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
1,2-Dichlorobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
1,3-Dichlorobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
1,4-Dichlorobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2,4-Dichlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Diethyl phthalate	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Dimethyl phthalate	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-31A	**Matrix:**	Groundwater
Client Sample ID:	DW33A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2,4-Dinitrophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2,4-Dinitrotoluene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2,6-Dinitrotoluene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Di-n-octyl phthalate	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
1,2-Diphenylhydrazine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	
Fluoranthene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Fluorene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Hexachlorobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Hexachlorobutadiene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Hexachlorocyclopentadiene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Hexachloroethane	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Isophorone	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Naphthalene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Nitrobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2-Nitrophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
4-Nitrophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
N-Nitrosodimethylamine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
N-Nitrosodiphenylamine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Pentachlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Phenanthrene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Phenol	ND	5.08	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Pyrene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	
2,4,5-Trichlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
2,4,6-Trichlorophenol	ND	2.03	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:16PM	PA/VA
Surr: 2-Fluorophenol	25.0	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 5:16PM	
Surr: Phenol-d5	18.9	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 5:16PM	
Surr: 2,4,6-Tribromophenol	44.0	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 5:16PM	
Surr: Nitrobenzene-d5	52.8	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 5:16PM	
Surr: 2-Fluorobiphenyl	50.1	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 5:16PM	
Surr: 4-Terphenyl-d14	64.6	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 5:16PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 11:13PM	PA/VA
Surr: 2,5-Dibromotoluene	93.8	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 11:13PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-31A	**Matrix:**	Groundwater
Client Sample ID:	DW33A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 10:30AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-31A	**Matrix:**	Groundwater
Client Sample ID:	DW33A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 10:30AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	75.9-132	NA	%Rec		10/14/17 10:30AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		10/14/17 10:30AM	
Surr: Dibromofluoromethane	103	NA	80.1-127	NA	%Rec		10/14/17 10:30AM	
Surr: Toluene-d8	98.5	NA	72.4-119	NA	%Rec		10/14/17 10:30AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 10:30AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 10:30AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-31A	**Matrix:**	Groundwater
Client Sample ID:	DW33A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 10:30AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 10:30AM	
Surr: 1,2-Dichloroethane-d4	116	NA	70-130	NA	%Rec		10/14/17 10:30AM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/14/17 10:30AM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		10/14/17 10:30AM	
Surr: Toluene-d8	98.5	NA	70-130	NA	%Rec		10/14/17 10:30AM	

REI Consultants, Inc. - Analytical Report

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 9:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-31B	**Matrix:**	Groundwater
Client Sample ID:	DW33A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.345	0.200	1.00	NA	J	µg/L	10/18/17 1:45PM	10/20/17 12:20AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 10:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-32A	**Matrix:**	Groundwater
Client Sample ID:	DW40A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.758	0.200	1.00	NA	J	µg/L	10/18/17 1:45PM	10/19/17 3:07PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00750	0.0197	0.200		µg/L	10/18/17 12:20PM	10/19/17 7:31AM	PA/VA
1,2-Dibromoethane	ND	0.00385	0.0197	0.050		µg/L	10/18/17 12:20PM	10/19/17 7:31AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Acenaphthylene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Anthracene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Benzidine	ND	5.09	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Benzo(a)anthracene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Benzo(a)pyrene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Benzo(b)fluoranthene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Benzo(g,h,i)perylene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Benzo(k)fluoranthene	ND	3.06	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.09	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Butyl benzyl phthalate	ND	5.09	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
4-Chloro-3-methylphenol	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2-Chloronaphthalene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2-Chlorophenol	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Chrysene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
o-Cresol	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
m,p-Cresol	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Di-n-butyl phthalate	ND	5.09	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
1,2-Dichlorobenzene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
1,3-Dichlorobenzene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
1,4-Dichlorobenzene	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.09	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2,4-Dichlorophenol	ND	2.04	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Diethyl phthalate	ND	5.09	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Dimethyl phthalate	ND	5.09	10.2	NA		µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 10:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-32A	**Matrix:**	Groundwater
Client Sample ID:	DW40A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2,4-Dinitrophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2,4-Dinitrotoluene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2,6-Dinitrotoluene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Di-n-octyl phthalate	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
1,2-Diphenylhydrazine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	
Fluoranthene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Fluorene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Hexachlorobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Hexachlorobutadiene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Hexachlorocyclopentadiene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Hexachloroethane	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Isophorone	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Naphthalene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Nitrobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2-Nitrophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
4-Nitrophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
N-Nitrosodimethylamine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
N-Nitrosodiphenylamine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Pentachlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Phenanthrene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Phenol	ND	5.09	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Pyrene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	
2,4,5-Trichlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
2,4,6-Trichlorophenol	ND	2.04	10.2	NA	µg/L	10/17/17 8:22AM	10/18/17 5:38PM	PA/VA
Surr: 2-Fluorophenol	33.7	NA	17.6-120	NA	%Rec	10/17/17 8:22AM	10/18/17 5:38PM	
Surr: Phenol-d5	24.8	NA	11.4-120	NA	%Rec	10/17/17 8:22AM	10/18/17 5:38PM	
Surr: 2,4,6-Tribromophenol	57.9	NA	18-129	NA	%Rec	10/17/17 8:22AM	10/18/17 5:38PM	
Surr: Nitrobenzene-d5	65.6	NA	21.5-122	NA	%Rec	10/17/17 8:22AM	10/18/17 5:38PM	
Surr: 2-Fluorobiphenyl	59.4	NA	23.7-127	NA	%Rec	10/17/17 8:22AM	10/18/17 5:38PM	
Surr: 4-Terphenyl-d14	80.7	NA	39.9-124	NA	%Rec	10/17/17 8:22AM	10/18/17 5:38PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/17/17 11:45PM	PA/VA
Surr: 2,5-Dibromotoluene	94.1	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/17/17 11:45PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 10:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-32A	**Matrix:**	Groundwater
Client Sample ID:	DW40A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 11:03AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA

REI Consultants, Inc. - Analytical Report

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Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 10:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-32A	**Matrix:**	Groundwater
Client Sample ID:	DW40A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 11:03AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	PA/VA
Surr: 1,2-Dichloroethane-d4	115	NA	75.9-132	NA	%Rec		10/14/17 11:03AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec		10/14/17 11:03AM	
Surr: Dibromofluoromethane	105	NA	80.1-127	NA	%Rec		10/14/17 11:03AM	
Surr: Toluene-d8	100	NA	72.4-119	NA	%Rec		10/14/17 11:03AM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL — **Method: SW8260B** — **Analyst: JM**

tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 11:03AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 11:03AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 10:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-32A	**Matrix:**	Groundwater
Client Sample ID:	DW40A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 11:03AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 11:03AM	
Surr: 1,2-Dichloroethane-d4	115	NA	70-130	NA	%Rec		10/14/17 11:03AM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/14/17 11:03AM	
Surr: Dibromofluoromethane	105	NA	70-130	NA	%Rec		10/14/17 11:03AM	
Surr: Toluene-d8	100	NA	70-130	NA	%Rec		10/14/17 11:03AM	

REI Consultants, Inc. - Analytical Report

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 10:20:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-32B	**Matrix:**	Groundwater
Client Sample ID:	DW40A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	ND	0.200	1.00	NA	µg/L	10/18/17 1:45PM	10/19/17 3:13PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:48:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-33A	**Matrix:**	Groundwater
Client Sample ID:	DW41A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**			**Analyst: LF**	
Lead	2.00	0.200	1.00	NA	µg/L	10/18/17 1:45PM	10/19/17 3:18PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**			**Analyst: JH**	
1,2-Dibromo-3-chloropropane	ND	0.00746	0.0196	0.200	µg/L	10/18/17 12:20PM	10/19/17 7:48AM	PA/VA
1,2-Dibromoethane	ND	0.00383	0.0196	0.050	µg/L	10/18/17 12:20PM	10/19/17 7:48AM	PA/VA
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**			**Analyst: JC**	
Acenaphthene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Acenaphthylene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Anthracene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Benzidine	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Benzo(a)anthracene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Benzo(a)pyrene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Benzo(b)fluoranthene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Benzo(g,h,i)perylene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Benzo(k)fluoranthene	ND	3.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Butyl benzyl phthalate	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
4-Chloro-3-methylphenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2-Chloronaphthalene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2-Chlorophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Chrysene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
o-Cresol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
m,p-Cresol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Di-n-butyl phthalate	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
1,2-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
1,3-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
1,4-Dichlorobenzene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2,4-Dichlorophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Diethyl phthalate	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Dimethyl phthalate	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:48:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-33A	**Matrix:**	Groundwater
Client Sample ID:	DW41A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
2,4-Dimethylphenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2,4-Dinitrophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2,4-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2,6-Dinitrotoluene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Di-n-octyl phthalate	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
1,2-Diphenylhydrazine	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	
Fluoranthene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Fluorene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Hexachlorobenzene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Hexachlorobutadiene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Hexachlorocyclopentadiene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Hexachloroethane	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Isophorone	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Naphthalene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Nitrobenzene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
4-Nitrophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
N-Nitrosodimethylamine	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
N-Nitrosodiphenylamine	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Pentachlorophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Phenanthrene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Phenol	ND	5.04	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Pyrene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	
2,4,5-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
2,4,6-Trichlorophenol	ND	2.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:22PM	PA/VA
Surr: 2-Fluorophenol	41.6	NA	17.6-120	NA	%Rec	10/18/17 8:37AM	10/18/17 10:22PM	
Surr: Phenol-d5	28.7	NA	11.4-120	NA	%Rec	10/18/17 8:37AM	10/18/17 10:22PM	
Surr: 2,4,6-Tribromophenol	77.6	NA	18-129	NA	%Rec	10/18/17 8:37AM	10/18/17 10:22PM	
Surr: Nitrobenzene-d5	76.0	NA	21.5-122	NA	%Rec	10/18/17 8:37AM	10/18/17 10:22PM	
Surr: 2-Fluorobiphenyl	75.2	NA	23.7-127	NA	%Rec	10/18/17 8:37AM	10/18/17 10:22PM	
Surr: 4-Terphenyl-d14	84.3	NA	39.9-124	NA	%Rec	10/18/17 8:37AM	10/18/17 10:22PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/18/17 11:17PM	PA/VA
Surr: 2,5-Dibromotoluene	96.5	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/18/17 11:17PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:48:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-33A	**Matrix:**	Groundwater
Client Sample ID:	DW41A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 11:36AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:48:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-33A	**Matrix:**	Groundwater
Client Sample ID:	DW41A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 11:36AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	PA/VA
Surr: 1,2-Dichloroethane-d4	117	NA	75.9-132	NA	%Rec		10/14/17 11:36AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		10/14/17 11:36AM	
Surr: Dibromofluoromethane	106	NA	80.1-127	NA	%Rec		10/14/17 11:36AM	
Surr: Toluene-d8	98.8	NA	72.4-119	NA	%Rec		10/14/17 11:36AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		10/14/17 11:36AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 11:36AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:48:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-33A	**Matrix:**	Groundwater
Client Sample ID:	DW41A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		10/14/17 11:36AM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 11:36AM	
Surr: 1,2-Dichloroethane-d4	117	NA	70-130	NA	%Rec		10/14/17 11:36AM	
Surr: 4-Bromofluorobenzene	101	NA	70-130	NA	%Rec		10/14/17 11:36AM	
Surr: Dibromofluoromethane	106	NA	70-130	NA	%Rec		10/14/17 11:36AM	
Surr: Toluene-d8	98.8	NA	70-130	NA	%Rec		10/14/17 11:36AM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 3:48:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-33B	**Matrix:**	Groundwater
Client Sample ID:	DW41A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.628	0.200	1.00	NA	J	µg/L	10/18/17 1:45PM	10/19/17 3:36PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-34A	**Matrix:**	Groundwater
Client Sample ID:	DUP01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**
Lead	1.36	0.200	1.00	NA	µg/L	10/18/17 1:45PM	10/19/17 3:42PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
1,2-Dibromo-3-chloropropane	ND	0.00751	0.0198	0.200	µg/L	10/18/17 12:20PM	10/19/17 8:04AM	PA/VA
1,2-Dibromoethane	ND	494	989	0.050	µg/L	10/18/17 12:20PM	10/19/17 8:04AM	PA/VA

Notes:

Target analytes were confirmed by GC/MS.

SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**
Acenaphthene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Acenaphthylene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Anthracene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Benzidine	ND	5.03	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Benzo(a)anthracene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Benzo(a)pyrene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Benzo(b)fluoranthene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Benzo(g,h,i)perylene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Benzo(k)fluoranthene	ND	3.02	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.03	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Butyl benzyl phthalate	ND	5.03	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
4-Chloro-3-methylphenol	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2-Chloronaphthalene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2-Chlorophenol	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Chrysene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
o-Cresol	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
m,p-Cresol	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Di-n-butyl phthalate	ND	5.03	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
1,2-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
1,3-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
1,4-Dichlorobenzene	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.03	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2,4-Dichlorophenol	ND	2.01	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Diethyl phthalate	ND	5.03	10.1	NA	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-34A	**Matrix:**	Groundwater
Client Sample ID:	DUP01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.03	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2,4-Dimethylphenol	2.25	2.01	10.1	NA	J	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2,4-Dinitrophenol	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2,4-Dinitrotoluene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2,6-Dinitrotoluene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Di-n-octyl phthalate	ND	5.03	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
1,2-Diphenylhydrazine	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	
Fluoranthene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Fluorene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Hexachlorobenzene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Hexachlorobutadiene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Hexachlorocyclopentadiene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Hexachloroethane	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Isophorone	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Naphthalene	34.6	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Nitrobenzene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2-Nitrophenol	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
4-Nitrophenol	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
N-Nitrosodimethylamine	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
N-Nitrosodiphenylamine	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Pentachlorophenol	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Phenanthrene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Phenol	7.04	5.03	10.1	NA	J	µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Pyrene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	
2,4,5-Trichlorophenol	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
2,4,6-Trichlorophenol	ND	2.01	10.1	NA		µg/L	10/18/17 8:37AM	10/18/17 10:44PM	PA/VA
Surr: 2-Fluorophenol	46.7	NA	17.6-120	NA		%Rec	10/18/17 8:37AM	10/18/17 10:44PM	
Surr: Phenol-d5	35.3	NA	11.4-120	NA		%Rec	10/18/17 8:37AM	10/18/17 10:44PM	
Surr: 2,4,6-Tribromophenol	83.4	NA	18-129	NA		%Rec	10/18/17 8:37AM	10/18/17 10:44PM	
Surr: Nitrobenzene-d5	94.5	NA	21.5-122	NA		%Rec	10/18/17 8:37AM	10/18/17 10:44PM	
Surr: 2-Fluorobiphenyl	78.0	NA	23.7-127	NA		%Rec	10/18/17 8:37AM	10/18/17 10:44PM	
Surr: 4-Terphenyl-d14	96.5	NA	39.9-124	NA		%Rec	10/18/17 8:37AM	10/18/17 10:44PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	6,640	250	500	NA		µg/L	10/13/17 12:37PM	10/18/17 11:49PM	PA/VA
Surr: 2,5-Dibromotoluene	100	NA	53.5-143	NA		%Rec	10/13/17 12:37PM	10/18/17 11:49PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-34A	**Matrix:**	Groundwater
Client Sample ID:	DUP01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	560.8	50.0	100	NA		µg/L		10/25/17 5:58PM	
Acetone	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
Benzene	724	50.0	100	NA		µg/L		10/25/17 5:58PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
sec-Butylbenzene	7.20	5.00	10.0	NA	J	µg/L		10/24/17 4:26PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		10/14/17 12:42PM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Chloroform	6.90	5.00	10.0	NA	J	µg/L		10/24/17 4:26PM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2-Dichloropropane	7.30	5.00	10.0	NA	J	µg/L		10/24/17 4:26PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-34A	**Matrix:**	Groundwater
Client Sample ID:	DUP01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Ethylbenzene	66.9	5.00	10.0	NA		µg/L		10/24/17 4:26PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
Isopropylbenzene	11.3	5.00	10.0	NA		µg/L		10/24/17 4:26PM	PA/VA
4-Isopropyltoluene	5.70	5.00	10.0	NA	J	µg/L		10/24/17 4:26PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
Methyl tert-butyl ether	574	10.0	50.0	NA		µg/L		10/24/17 4:26PM	PA/VA
Naphthalene	128	50.0	100	NA		µg/L		10/25/17 5:58PM	PA/VA
n-Propylbenzene	12.4	5.00	10.0	NA		µg/L		10/24/17 4:26PM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Toluene	52.0	5.00	10.0	NA		µg/L		10/24/17 4:26PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
1,2,4-Trimethylbenzene	269	50.0	100	NA		µg/L		10/25/17 5:58PM	PA/VA
1,3,5-Trimethylbenzene	90.7	5.00	10.0	NA		µg/L		10/24/17 4:26PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		10/14/17 12:42PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	PA/VA
Surr: 1,2-Dichloroethane-d4	79.4	NA	75.9-132	NA		%Rec		10/14/17 12:42PM	
Surr: 4-Bromofluorobenzene	103	NA	73.6-132	NA		%Rec		10/14/17 12:42PM	
Surr: Dibromofluoromethane	103	NA	80.1-127	NA		%Rec		10/14/17 12:42PM	
Surr: Toluene-d8	102	NA	72.4-119	NA		%Rec		10/14/17 12:42PM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL **Method: SW8260B** **Analyst: JM**

tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		10/14/17 12:42PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		10/14/17 12:42PM	

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Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-34A	**Matrix:**	Groundwater
Client Sample ID:	DUP01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA		µg/L		10/14/17 12:42PM	PA/VA
Isopropyl ether	49.1	25.0	50.0	NA	J	µg/L		10/24/17 4:26PM	
Surr: 1,2-Dichloroethane-d4	76.6	NA	70-130	NA		%Rec		10/14/17 12:42PM	
Surr: 4-Bromofluorobenzene	108	NA	70-130	NA		%Rec		10/14/17 12:42PM	
Surr: Dibromofluoromethane	96.8	NA	70-130	NA		%Rec		10/14/17 12:42PM	
Surr: Toluene-d8	100	NA	70-130	NA		%Rec		10/14/17 12:42PM	

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Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/11/2017 1:45:00 PM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-34B	**Matrix:**	Groundwater
Client Sample ID:	DUP01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: LF**	
Lead	0.203	0.200	1.00	NA	J	µg/L	10/18/17 1:45PM	10/19/17 3:48PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-35A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	10/13/17 12:37PM	10/19/17 12:20AM	PA/VA
Surr: 2,5-Dibromotoluene	101	NA	53.5-143	NA	%Rec	10/13/17 12:37PM	10/19/17 12:20AM	
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	
Acetone	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		10/14/17 12:09PM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-35A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		10/14/17 12:09PM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	PA/VA
Surr: 1,2-Dichloroethane-d4	115	NA	75.9-132	NA	%Rec		10/14/17 12:09PM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec		10/14/17 12:09PM	
Surr: Dibromofluoromethane	105	NA	80.1-127	NA	%Rec		10/14/17 12:09PM	
Surr: Toluene-d8	100	NA	72.4-119	NA	%Rec		10/14/17 12:09PM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	

REI Consultants, Inc. - Analytical Report

WO#: 17101663

Date Reported: 11/30/2017
Revision v1

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	10/10/2017 12:00:00 AM
Project:	CHAMBLISSBURG SUPPLY-CSVI	**Date Received:**	10/12/2017
Lab ID:	17101663-35A	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	
tert-Butyl alcohol	ND	50.0	100	NA	µg/L		10/14/17 12:09PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		10/14/17 12:09PM	
Isopropyl ether	ND	2.50	5.00	NA	µg/L		10/14/17 12:09PM	
Surr: 1,2-Dichloroethane-d4	115	NA	70-130	NA	%Rec		10/14/17 12:09PM	
Surr: 4-Bromofluorobenzene	102	NA	70-130	NA	%Rec		10/14/17 12:09PM	
Surr: Dibromofluoromethane	105	NA	70-130	NA	%Rec		10/14/17 12:09PM	
Surr: Toluene-d8	100	NA	70-130	NA	%Rec		10/14/17 12:09PM	

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**17101663**
RCPNo:	**1**	Date and Time Received:	**10/12/2017 5:40:00 PM**	Received by:	**Destiny Duncan**
Completed By:	**Mary Ann Holley**		Reviewed By:	**Scott Gross**	
Completed Date:	**10/13/2017 11:15:19 AM**		Reviewed Date:	**10/16/2017 9:19 AM**	

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 0 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **17101663**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

17101663

GREENE ENVIRONMENTAL SERVICES, LLC

GRE096

Billy Shirley

ISTODY RECORD

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

REIC

Research Environmental & Industrial Consultants, Inc.

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Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____

Contact Person Mr. Trev Greene Phone (540) 483-3311

Address 570 Redbud Hill Road City ROCKY MOUNT State VA Zip 24151

Billing Address (if different) _____

City _____ State _____ Zip _____

Site ID & State VIRGINIA Proj ID Chamblissburg Supply - CSVI Sampler AF,TG,CH,BM

TURNAROUND TIME: (•) NORMAL

RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: (•) Email ( ) Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED

- TPH-GRO via 8015
- VOCs via 8260 + Oxygenates (See "Comments")
- SVOCs via 8270
- EDB/DBCP via 8011
- Total Lead via 200.8
- Dissolved Lead via 200.8

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*1 *0	*1 *0	*0 *0	*0 *0	*2 *0	*2 *0	*	*	*
MW01	See "Comments"	10/10/17 @ 1420	G Water	Grab	X	X	X	X	X	X			
MW02	See "Comments"	10/10/17 @ 1620	G Water	Grab	X	X	X	X	X	X			
MW03	See "Comments"	10/11/17 @ 0940	G Water	Grab	X	X	X	X	X	X			
MW04	See "Comments"	10/11/17 @ 1015	G Water	Grab	X	X	X	X	X	X			
MW05	See "Comments"	10/10/17 @ 1115	G Water	Grab	X	X	X	X	X	X			
MW06	See "Comments"	10/10/17 @ 1200	G Water	Grab	X	X	X	X	X	X			
MW07	See "Comments"	10/10/17 @ 1245	G Water	Grab	X	X	X	X	X	X			
MW08	See "Comments"	10/10/17 @ 1325	G Water	Grab	X	X	X	X	X	X			
MW09	See "Comments"	10/11/17 @ 0915	G Water	Grab	X	X	X	X	X	X			
MW10	See "Comments"	10/11/17 @ 0855	G Water	Grab	X	X	X	X	X	X			

ENTER PRESERVATIVE CODE(S):

0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 Cl6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____*

*(Use blank for a preservative not listed.)

COMMENTS:

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

Each sample includes 2 liter ambers, 5 40mL HCL, 2 40mL unpreserved, 1 250mL nitric, 1 250mL nitric (field filtered).

Page 1 of 4

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 0.0 °C ICED? Y ✓ N ___ IR # _____ Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

REC'D Adam Flora	Date/Time 10/12/17 1000	REC'D Eric Lawson	Date/Time 10-12-17 1745	REC'D	Date/Time 10-12-17 1745
REC'D [signature]	Date/Time 10-12-17 1000	REC'D	Date/Time	REC'D	Date/Time
REC'D Destiny Duncan	Date/Time 10-12-17 1655	REC'D	Date/Time	REC'D	Date/Time
REC'D	Date/Time	REC'D	Date/Time	REC'D	Date/Time

CHAIN OF CUSTODY RECORD

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

REIC
Research Environmental & Industrial Consultants, Inc.
MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
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Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person Mr. Trev Greene Phone (540) 483-3311
Address 570 Redbud Hill Road City ROCKY MOUNT State VA Zip 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State VIRGINIA Proj ID Chamblissburg Supply - CSVI Sampler AF,TG,CH,BM

ANALYSIS & METHOD REQUESTED
- TPH-GRO via 8015
- VOCs via 8260 + Oxygenates (See "Comments")
- SVOCs via 8270
- EDB/DBCP via 8011
- Total Lead via 200.8
- Dissolved Lead via 200.8

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: (•) Email ( ) Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*1 *0	*1 *0	*0 *0	*0 *0	*2 *0	*2 *0			
MW11	See "Comments"	10/10/17 @ 1540	G Water	Grab	X	X	X	X	X	X			
DW01A	See "Comments"	10/11/17 @ 1335	G Water	Grab	X	X	X	X	X	X			
DW02A	See "Comments"	10/10/17 @ 1550	G Water	Grab	X	X	X	X	X	X			
DW03A	See "Comments"	10/10/17 @ 1515	G Water	Grab	X	X	X	X	X	X			
DW04A	See "Comments"	10/10/17 @ 1450	G Water	Grab	X	X	X	X	X	X			
DW05A	See "Comments"	10/11/17 @ 1520	G Water	Grab	X	X	X	X	X	X			
DW06B	See "Comments"	10/10/17 @ 1235	G Water	Grab	X	X	X	X	X	X			
DW06C	See "Comments"	10/10/17 @ 1130	G Water	Grab	X	X	X	X	X	X			
DW07A	See "Comments"	10/10/17 @ 1200	G Water	Grab	X	X	X	X	X	X			
DW08A	See "Comments"	10/11/17 @ 1450	G Water	Grab	X	X	X	X	X	X			

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____*
*(Use blank for a preservative not listed)

COMMENTS:
For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

Each sample includes 2 liter ambers, 5 40mL HCL, 2 40mL unpreserved, 1 250mL nitric, 1 250mL nitric (field filtered).

Page 2 of 4

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 0.0°C ICED? Y ✓ N ___ IR # _____ Containers provided by: [ ] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

REC'D Adam Flora	Date/Time 10/12/17 1000	REC'D Eric Reeves	Date/Time 10/12/17 1745	REC'D	Date/Time 10/12/17 1940
REC'D [signature]	Date/Time 10-12-17 1400	REC'D	Date/Time	REC'D	Date/Time
REC'D Destiny Duncan	Date/Time 10-12-17 1630	REC'D	Date/Time	REC'D	Date/Time
REC'D	Date/Time	REC'D	Date/Time	REC'D	Date/Time

CHAIN OF CUSTODY RECORD

v13-0516 REIC use ONLY — CLIENT ID GRE096 DATE _____ SHEET _____

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3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF,TG,CH,BM

TURNAROUND TIME: [x] NORMAL
RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [x] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED:
- TPH-GRO via 8015
- VOCs via 8260 + Oxygenates (See "Comments")
- SVOCs via 8270
- EDB/DBCP via 8011
- Total Lead via 200.8
- Dissolved Lead via 200.8

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1 / 0	1 / 0	0 / 0	0 / 0	2 / 0	2 / 0			
DW08B	See "Comments"	10/11/17 @ 1305	G Water	Grab	X	X	X	X	X	X			
DW09A	See "Comments"	10/10/17 @ 1600	G Water	Grab	X	X	X	X	X	X			
DW09B	See "Comments"	10/11/17 @ 1410	G Water	Grab	X	X	X	X	X	X			
DW11A	See "Comments"	10/11/17 @ 1608	G Water	Grab	X	X	X	X	X	X			
DW12A	See "Comments"	10/11/17 @ 1145	G Water	Grab	X	X	X	X	X	X			
DW14A	See "Comments"	10/11/17 @ 1140	G Water	Grab	X	X	X	X	X	X			
DW16A	See "Comments"	10/10/17 @ 1745	G Water	Grab	X	X	X	X	X	X			
DW17A	See "Comments"	10/11/17 @ 1005	G Water	Grab	X	X	X	X	X	X			
DW17B	See "Comments"	10/11/17 @ 1130	G Water	Grab	X	X	X	X	X	X			
DW18A	See "Comments"	10/11/17 @ 1620	G Water	Grab	X	X	X	X	X	X			

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____ *
*(Use blank for a preservative not listed)

COMMENTS:
For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

Each sample includes 2 liter ambers, 5 40mL HCL, 2 40mL unpreserved, 1 250mL nitric, 1 250mL nitric (field filtered).

Page 3 of 4

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 0.0°C ICED? Y ✓ N ___ IR # _____ Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

RECD Adam Flora	Date/Time 10/12/17 1000	RECD Eric Lenza	Date/Time 10/12/17 1745	RECD	Date/Time 10/12/17 1940
RECD [signature]	Date/Time 10-12-17 1000	RECD	Date/Time	RECD	Date/Time
RECD Destiny Duncan	Date/Time 10-12-17 1635	RECD	Date/Time	RECD	Date/Time
RECD	Date/Time	RECD	Date/Time	RECD	Date/Time

CHAIN OF CUSTODY RECORD

REIC

Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF,TG,CH,BM

TURNAROUND TIME: [x] NORMAL
RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [x] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED: TPH-GRO via 8015; VOCs via 8260 + Oxygenates (See "Comments"); SVOCs via 8270; EDB/DBCP via 8011; Total Lead via 200.8; Dissolved Lead via 200.8

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	8015	8260	8270	8011	200.8	200.8			
DW33A	See "Comments"	10/11/17 @ 0900	G Water	Grab	X	X	X	X	X	X			
DW40A	See "Comments"	10/10/17 @ 1020	G Water	Grab	X	X	X	X	X	X			
DW41A	See "Comments"	10/11/17 @ 1548	G Water	Grab	X	X	X	X	X	X			
DUP01	See "Comments"	10/11/17 @ 1345	G Water	Grab	X	X	X	X	X	X			

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____*
* (Use blank for a preservative not listed.)

COMMENTS:
For 8260, include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

Each sample includes 2 liter ambers, 5 40mL HCL, 2 40mL unpreserved, 1 250mL nitric, 1 250mL nitric (field filtered).

Page 4 of 4

CUSTODY SEALS [ ] Y [x] N

Corrected temp at arrival: 0.0 °C ICED? Y ✓ N ___ IR # _____ Containers provided by: [x] REIC [ ] Client Delivered by: [ ] Client [x] REIC [ ] UPS [ ] FedEx [ ] USPS

RELD	Date/Time	RECD	Date/Time	RECD	Date/Time
Adam Thew	10/12/17 1000	Eric Lessig	10-12-17 1343		10-12-17 1343
	10-12-17				
Betty Dunca	10-12-17 1435				

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Tuesday, November 14, 2017

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY - CSVI

Work Order #: 17110499

Dear Mr. Trev Greene:

REI Consultants, Inc. received 1 sample(s) on 11/2/2017 for the analyses presented in the following report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

REI Consultants, Inc. - Case Narrative

WO#: 17110499

Date Reported: 11/14/2017
Original

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY - CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

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DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 17110499

Date Reported: 11/14/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/1/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/2/2017
Lab ID:	17110499-01A	**Matrix:**	Groundwater
Client Sample ID:	DW13A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**	
Lead	13.9	0.200	1.00	NA		µg/L	11/06/17 11:30AM	11/07/17 1:12PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**	
DBCP	ND	0.00758	0.0200	0.200		µg/L	11/06/17 9:53AM	11/06/17 3:10PM	PA/VA
EDB	ND	0.00389	0.0200	0.050		µg/L	11/06/17 9:53AM	11/06/17 3:10PM	PA/VA
Surr: Tetrachloro-m-xylene	60.8	43.4-157		NA		%Rec	11/06/17 9:53AM	11/06/17 3:10PM	
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: JC**	
Acenaphthene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Acenaphthylene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Anthracene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Benzidine	ND	5.10	10.2	NA		µg/L	11/06/17 8:05AM	11/10/17 8:31PM	PA/VA
Benzo(a)anthracene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Benzo(a)pyrene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Benzo(b)fluoranthene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Benzo(g,h,i)perylene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Benzo(k)fluoranthene	ND	3.06	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.10	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Butyl benzyl phthalate	ND	5.10	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
4-Chloro-3-methylphenol	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2-Chloronaphthalene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2-Chlorophenol	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Chrysene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
o-Cresol	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
m,p-Cresol	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Di-n-butyl phthalate	ND	5.10	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
1,2-Dichlorobenzene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
1,3-Dichlorobenzene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
1,4-Dichlorobenzene	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.10	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2,4-Dichlorophenol	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Diethyl phthalate	ND	2.04	10.2	NA		µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17110499

Date Reported: 11/14/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/1/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/2/2017
Lab ID:	17110499-01A	**Matrix:**	Groundwater
Client Sample ID:	DW13A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.10	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2,4-Dimethylphenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2,4-Dinitrophenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2,4-Dinitrotoluene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2,6-Dinitrotoluene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Di-n-octyl phthalate	ND	5.10	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
1,2-Diphenylhydrazine	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	
Fluoranthene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Fluorene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Hexachlorobenzene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Hexachlorobutadiene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Hexachlorocyclopentadiene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Hexachloroethane	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Isophorone	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Naphthalene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Nitrobenzene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2-Nitrophenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
4-Nitrophenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
N-Nitrosodimethylamine	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
N-Nitrosodiphenylamine	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Pentachlorophenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Phenanthrene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Phenol	ND	5.10	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Pyrene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	
2,4,5-Trichlorophenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
2,4,6-Trichlorophenol	ND	2.04	10.2	NA	µg/L	11/06/17 8:05AM	11/08/17 4:22PM	PA/VA
Surr: 2-Fluorophenol	26.9	NA	17.6-120	NA	%Rec	11/06/17 8:05AM	11/08/17 4:22PM	
Surr: Phenol-d5	20.7	NA	11.4-120	NA	%Rec	11/06/17 8:05AM	11/08/17 4:22PM	
Surr: 2,4,6-Tribromophenol	40.9	NA	18-129	NA	%Rec	11/06/17 8:05AM	11/08/17 4:22PM	
Surr: Nitrobenzene-d5	55.9	NA	21.5-122	NA	%Rec	11/06/17 8:05AM	11/08/17 4:22PM	
Surr: 2-Fluorobiphenyl	51.9	NA	23.7-127	NA	%Rec	11/06/17 8:05AM	11/08/17 4:22PM	
Surr: 4-Terphenyl-d14	74.3	NA	39.9-124	NA	%Rec	11/06/17 8:05AM	11/08/17 4:22PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	11/03/17 1:11PM	11/09/17 10:38AM	PA/VA
Surr: 2,5-Dibromotoluene	96.0	NA	53.5-143	NA	%Rec	11/03/17 1:11PM	11/09/17 10:38AM	

REI Consultants, Inc. - Analytical Report

WO#: 17110499

Date Reported: 11/14/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/1/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/2/2017
Lab ID:	17110499-01A	**Matrix:**	Groundwater
Client Sample ID:	DW13A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Acetone	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		11/09/17 5:13AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17110499

Date Reported: 11/14/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/1/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/2/2017
Lab ID:	17110499-01A	**Matrix:**	Groundwater
Client Sample ID:	DW13A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		11/09/17 5:13AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		11/09/17 5:13AM	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		11/09/17 5:13AM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.0	NA	75.9-132	NA	%Rec		11/09/17 5:13AM	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec		11/09/17 5:13AM	
Surr: Dibromofluoromethane	95.7	NA	80.1-127	NA	%Rec		11/09/17 5:13AM	
Surr: Toluene-d8	101	NA	72.4-119	NA	%Rec		11/09/17 5:13AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		11/10/17 3:20PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		11/10/17 3:20PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		11/10/17 3:20PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		11/10/17 3:20PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17110499

Date Reported: 11/14/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/1/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/2/2017
Lab ID:	17110499-01A	**Matrix:**	Groundwater
Client Sample ID:	DW13A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		11/10/17 3:20PM	
Ethanol	ND	100	200	NA	µg/L		11/10/17 3:20PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		11/10/17 3:20PM	
Surr: 1,2-Dichloroethane-d4	108	NA	70-130	NA	%Rec		11/10/17 3:20PM	
Surr: 4-Bromofluorobenzene	93.8	NA	70-130	NA	%Rec		11/10/17 3:20PM	
Surr: Dibromofluoromethane	106	NA	70-130	NA	%Rec		11/10/17 3:20PM	
Surr: Toluene-d8	98.9	NA	70-130	NA	%Rec		11/10/17 3:20PM	

REI Consultants, Inc. - Analytical Report

WO#: 17110499

Date Reported: 11/14/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/1/2017 3:20:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/2/2017
Lab ID:	17110499-01B	**Matrix:**	Groundwater
Client Sample ID:	DW13A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	ND	0.200	1.00	NA	µg/L	11/06/17 11:30AM	11/07/17 1:18PM	PA/VA

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**17110499**
RCPNo:	**1**	Date and Time Received:	**11/2/2017 7:40:00 PM**	Received by:	**Randy Rose**
Completed By:	**Amanda Wilkins**		Reviewed By:	**Billy Shirley**	
Completed Date:	**11/3/2017 11:40:19 AM**		Reviewed Date:	**11/3/2017 12:16 PM**	

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 0.6 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **17110499**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN OF CUSTODY RECORD

17110499

GREENE ENVIRONMENTAL SERVICES LLC

GRE096

Billy Shirley

REIC Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____

Contact Person: Mr. Trev Greene Phone: (540) 483-3311

Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151

Billing Address (if different) _____

City _____ State _____ Zip _____

Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: AF

TURNAROUND TIME

[x] NORMAL

RUSH TURNAROUND*

[ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via:

[x] Email

[ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED

- TPH-GRO via 8015
- VOCs via 8260 + Oxygenates (See "Comments")
- SVOCs via 8270
- EDB/DBCP via 8011
- Total Lead via 200.8
- Dissolved Lead via 200.8

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*1 *2	*1 *2	*0 *0	*2 *2	*2 *0	*2 *0	*	*	*
DW13A	See "Comments"	11/01/17 @ 1520	G Water	Grab	X	X	X	X	X	X			

ENTER PRESERVATIVE CODE(S):

0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____ *

* (Use blank for a preservative not listed.)

COMMENTS:

For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

Each sample includes 2 liter ambers, 5 40mL HCL, 2 40mL unpreserved, 1 250mL nitric, 1 250mL nitric (field filtered).

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 0.6 °C ICED? Y ✓ N ___ IR # 3 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

REC'D [signature]	Date/Time 11-2-17 0815	REC'D Eric Lauro	Date/Time 11-2-17 1740	REC'D	Date/Time 11-2-17 1940
REC'D Randy Rose	Date/Time 11-2-17 1112	REC'D	Date/Time	REC'D	Date/Time
REC'D Corey Jordan	Date/Time 11-2-17 1324	REC'D	Date/Time	REC'D	Date/Time
REC'D Dennis Duncan	Date/Time 11-2-17 1600	REC'D	Date/Time	REC'D	Date/Time

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Wednesday, December 13, 2017

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
570 REDBUD HILL ROAD
ROCKY MOUNT, VA 24151

TEL: (540) 483-3311
FAX:

RE: CHAMBLISSBURG SUPPLY - CSVI

Work Order #: 17120023

Dear Mr. Trev Greene:

REI Consultants, Inc. received 14 sample(s) on 11/30/2017 for the analyses presented in the following report.

Sincerely,

Billy Shirley
Project Manager
(304) 250-6214

REI Consultants, Inc. - Case Narrative

WO#: 17120023

Date Reported: 12/13/2017
Original

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: CHAMBLISSBURG SUPPLY - CSVI

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be considered estimated.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 3:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-01A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-256	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	393	NA	0	NA		µg/L		12/07/17 5:04AM	
Acetone	ND	5.00	10.0	NA		µg/L		12/07/17 5:04AM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		12/07/17 5:04AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		12/07/17 5:04AM	PA/VA
Benzene	775	50.0	100	NA		µg/L		12/11/17 9:26PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L		12/07/17 5:04AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
sec-Butylbenzene	1.65	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		12/07/17 5:04AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Chloroform	7.60	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,2-Dibromoethane	0.600	0.500	1.00	NA	J	µg/L		12/07/17 5:04AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,2-Dichloropropane	2.35	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 5:04AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 3:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-01A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-256	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Ethylbenzene	58.3	5.00	10.0	NA	µg/L		12/09/17 4:00AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 5:04AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 5:04AM	PA/VA
Isopropylbenzene	10.4	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
4-Isopropyltoluene	3.48	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 5:04AM	PA/VA
Methyl tert-butyl ether	765	10.0	50.0	NA	µg/L		12/09/17 4:00AM	PA/VA
Naphthalene	47.1	5.00	10.0	NA	µg/L		12/09/17 4:00AM	PA/VA
n-Propylbenzene	9.75	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Toluene	3.24	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
1,2,4-Trimethylbenzene	196	5.00	10.0	NA	µg/L		12/09/17 4:00AM	PA/VA
1,3,5-Trimethylbenzene	52.6	5.00	10.0	NA	µg/L		12/09/17 4:00AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 5:04AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 5:04AM	PA/VA
Surr: 1,2-Dichloroethane-d4	105	NA	75.9-132	NA	%Rec		12/07/17 5:04AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		12/07/17 5:04AM	
Surr: Dibromofluoromethane	86.6	NA	80.1-127	NA	%Rec		12/07/17 5:04AM	
Surr: Toluene-d8	98.4	NA	72.4-119	NA	%Rec		12/07/17 5:04AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 3:15AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:15AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:15AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 3:15AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:15AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 3:52:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-01A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-256	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 3:15AM	PA/VA
Isopropyl ether	64.3	2.50	5.00	NA	µg/L		12/07/17 3:15AM	
Surr: 1,2-Dichloroethane-d4	111	NA	70-130	NA	%Rec		12/07/17 3:15AM	
Surr: 4-Bromofluorobenzene	118	NA	70-130	NA	%Rec		12/07/17 3:15AM	
Surr: Dibromofluoromethane	97.1	NA	70-130	NA	%Rec		12/07/17 3:15AM	
Surr: Toluene-d8	108	NA	70-130	NA	%Rec		12/07/17 3:15AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 4:42:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-02A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-211	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	366	NA	0	NA	µg/L		12/07/17 5:36AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
Benzene	774	50.0	100	NA	µg/L		12/11/17 9:57PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
sec-Butylbenzene	1.29	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 5:36AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Chloroform	7.76	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2-Dichloropropane	2.30	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 4:42:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-02A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-211	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Ethylbenzene	54.3	5.00	10.0	NA	µg/L		12/09/17 4:32AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
Isopropylbenzene	8.69	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
4-Isopropyltoluene	2.73	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
Methyl tert-butyl ether	719	10.0	50.0	NA	µg/L		12/09/17 4:32AM	PA/VA
Naphthalene	45.0	5.00	10.0	NA	µg/L		12/09/17 4:32AM	PA/VA
n-Propylbenzene	7.70	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Toluene	2.95	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
1,2,4-Trimethylbenzene	175	5.00	10.0	NA	µg/L		12/09/17 4:32AM	PA/VA
1,3,5-Trimethylbenzene	47.3	5.00	10.0	NA	µg/L		12/09/17 4:32AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 5:36AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 5:36AM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	75.9-132	NA	%Rec		12/07/17 5:36AM	
Surr: 4-Bromofluorobenzene	99.1	NA	73.6-132	NA	%Rec		12/07/17 5:36AM	
Surr: Dibromofluoromethane	87.2	NA	80.1-127	NA	%Rec		12/07/17 5:36AM	
Surr: Toluene-d8	98.6	NA	72.4-119	NA	%Rec		12/07/17 5:36AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 3:48AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:48AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:48AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 3:48AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:48AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 4:42:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-02A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-211	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 3:48AM	PA/VA
Isopropyl ether	61.9	2.50	5.00	NA	µg/L		12/07/17 3:48AM	
Surr: 1,2-Dichloroethane-d4	99.9	NA	70-130	NA	%Rec		12/07/17 3:48AM	
Surr: 4-Bromofluorobenzene	113	NA	70-130	NA	%Rec		12/07/17 3:48AM	
Surr: Dibromofluoromethane	93.6	NA	70-130	NA	%Rec		12/07/17 3:48AM	
Surr: Toluene-d8	108	NA	70-130	NA	%Rec		12/07/17 3:48AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 5:12:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-03A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-179	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	429	NA	0	NA	µg/L		12/07/17 6:07AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
Benzene	725	50.0	100	NA	µg/L		12/11/17 10:29PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
sec-Butylbenzene	1.97	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 6:07AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Chloroform	8.05	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2-Dichloropropane	2.33	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 5:12:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-03A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-179	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Ethylbenzene	66.6	5.00	10.0	NA	µg/L		12/09/17 5:04AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
Isopropylbenzene	12.0	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
4-Isopropyltoluene	4.19	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
Methyl tert-butyl ether	671	10.0	50.0	NA	µg/L		12/09/17 5:04AM	PA/VA
Naphthalene	57.4	5.00	10.0	NA	µg/L		12/09/17 5:04AM	PA/VA
n-Propylbenzene	11.6	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Toluene	2.80	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
1,2,4-Trimethylbenzene	242	5.00	10.0	NA	µg/L		12/09/17 5:04AM	PA/VA
1,3,5-Trimethylbenzene	66.4	5.00	10.0	NA	µg/L		12/09/17 5:04AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 6:07AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 6:07AM	PA/VA
Surr: 1,2-Dichloroethane-d4	103	NA	75.9-132	NA	%Rec		12/07/17 6:07AM	
Surr: 4-Bromofluorobenzene	100	NA	73.6-132	NA	%Rec		12/07/17 6:07AM	
Surr: Dibromofluoromethane	83.3	NA	80.1-127	NA	%Rec		12/07/17 6:07AM	
Surr: Toluene-d8	98.4	NA	72.4-119	NA	%Rec		12/07/17 6:07AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 4:21AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 4:21AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 4:21AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 4:21AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 4:21AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 5:12:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-03A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-179	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 4:21AM	PA/VA
Isopropyl ether	63.0	2.50	5.00	NA	µg/L		12/07/17 4:21AM	
Surr: 1,2-Dichloroethane-d4	109	NA	70-130	NA	%Rec		12/07/17 4:21AM	
Surr: 4-Bromofluorobenzene	119	NA	70-130	NA	%Rec		12/07/17 4:21AM	
Surr: Dibromofluoromethane	93.5	NA	70-130	NA	%Rec		12/07/17 4:21AM	
Surr: Toluene-d8	108	NA	70-130	NA	%Rec		12/07/17 4:21AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 5:42:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-04A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-159	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	398	NA	0	NA	µg/L		12/07/17 6:39AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
Benzene	538	50.0	100	NA	µg/L		12/11/17 11:01PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
sec-Butylbenzene	1.60	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 6:39AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Chloroform	8.03	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2-Dichloropropane	1.84	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 5:42:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-04A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-159	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Ethylbenzene	57.3	5.00	10.0	NA	µg/L		12/09/17 5:36AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
Isopropylbenzene	9.79	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
4-Isopropyltoluene	3.53	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
Methyl tert-butyl ether	637	10.0	50.0	NA	µg/L		12/09/17 5:36AM	PA/VA
Naphthalene	55.1	5.00	10.0	NA	µg/L		12/09/17 5:36AM	PA/VA
n-Propylbenzene	9.18	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Toluene	2.16	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
1,2,4-Trimethylbenzene	216	5.00	10.0	NA	µg/L		12/09/17 5:36AM	PA/VA
1,3,5-Trimethylbenzene	59.4	5.00	10.0	NA	µg/L		12/09/17 5:36AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 6:39AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 6:39AM	PA/VA
Surr: 1,2-Dichloroethane-d4	104	NA	75.9-132	NA	%Rec		12/07/17 6:39AM	
Surr: 4-Bromofluorobenzene	98.0	NA	73.6-132	NA	%Rec		12/07/17 6:39AM	
Surr: Dibromofluoromethane	88.0	NA	80.1-127	NA	%Rec		12/07/17 6:39AM	
Surr: Toluene-d8	98.9	NA	72.4-119	NA	%Rec		12/07/17 6:39AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 4:54AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 4:54AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 4:54AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 4:54AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 4:54AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 5:42:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-04A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-159	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA		µg/L		12/07/17 4:54AM	PA/VA
Isopropyl ether	53.2	2.50	5.00	NA		µg/L		12/07/17 4:54AM	
Surr: 1,2-Dichloroethane-d4	168	NA	70-130	NA	S	%Rec		12/07/17 4:54AM	
Surr: 4-Bromofluorobenzene	116	NA	70-130	NA		%Rec		12/07/17 4:54AM	
Surr: Dibromofluoromethane	98.3	NA	70-130	NA		%Rec		12/07/17 4:54AM	
Surr: Toluene-d8	108	NA	70-130	NA		%Rec		12/07/17 4:54AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:02:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-05A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-143	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	408	NA	0	NA	µg/L		12/07/17 7:11AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
Benzene	549	50.0	100	NA	µg/L		12/11/17 11:33PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
sec-Butylbenzene	1.63	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 7:11AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Chloroform	7.44	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2-Dichloropropane	1.74	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:02:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-05A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-143	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Ethylbenzene	55.5	5.00	10.0	NA	µg/L		12/09/17 6:08AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
Isopropylbenzene	9.75	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
4-Isopropyltoluene	3.76	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
Methyl tert-butyl ether	528	10.0	50.0	NA	µg/L		12/09/17 6:08AM	PA/VA
Naphthalene	54.9	5.00	10.0	NA	µg/L		12/09/17 6:08AM	PA/VA
n-Propylbenzene	9.46	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Toluene	2.03	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
1,2,4-Trimethylbenzene	220	5.00	10.0	NA	µg/L		12/09/17 6:08AM	PA/VA
1,3,5-Trimethylbenzene	59.9	5.00	10.0	NA	µg/L		12/09/17 6:08AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 7:11AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 7:11AM	PA/VA
Surr: 1,2-Dichloroethane-d4	103	NA	75.9-132	NA	%Rec		12/07/17 7:11AM	
Surr: 4-Bromofluorobenzene	99.7	NA	73.6-132	NA	%Rec		12/07/17 7:11AM	
Surr: Dibromofluoromethane	89.1	NA	80.1-127	NA	%Rec		12/07/17 7:11AM	
Surr: Toluene-d8	98.5	NA	72.4-119	NA	%Rec		12/07/17 7:11AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL			**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 5:27AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 5:27AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 5:27AM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 5:27AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 5:27AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:02:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-05A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-143	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA		µg/L		12/07/17 5:27AM	PA/VA
Isopropyl ether	50.4	2.50	5.00	NA		µg/L		12/07/17 5:27AM	
Surr: 1,2-Dichloroethane-d4	167	NA	70-130	NA	S	%Rec		12/07/17 5:27AM	
Surr: 4-Bromofluorobenzene	118	NA	70-130	NA		%Rec		12/07/17 5:27AM	
Surr: Dibromofluoromethane	95.4	NA	70-130	NA		%Rec		12/07/17 5:27AM	
Surr: Toluene-d8	108	NA	70-130	NA		%Rec		12/07/17 5:27AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:29:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-06A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-108	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	289	NA	0	NA		µg/L		12/07/17 7:43AM	
Acetone	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
Benzene	95.7	5.00	10.0	NA		µg/L		12/09/17 6:39AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
sec-Butylbenzene	0.670	0.500	1.00	NA	J	µg/L		12/07/17 7:43AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		12/07/17 7:43AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Chloroform	5.82	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2-Dichloroethane	16.4	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2-Dichloropropane	0.510	0.500	1.00	NA	J	µg/L		12/07/17 7:43AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:29:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-06A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-108	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Ethylbenzene	20.4	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
Isopropylbenzene	3.35	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
4-Isopropyltoluene	1.88	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
Methyl tert-butyl ether	217	10.0	50.0	NA		µg/L		12/09/17 6:39AM	PA/VA
Naphthalene	34.6	5.00	10.0	NA		µg/L		12/09/17 6:39AM	PA/VA
n-Propylbenzene	2.96	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Toluene	0.610	0.500	1.00	NA	J	µg/L		12/07/17 7:43AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
1,2,4-Trimethylbenzene	106	5.00	10.0	NA		µg/L		12/09/17 6:39AM	PA/VA
1,3,5-Trimethylbenzene	28.5	5.00	10.0	NA		µg/L		12/09/17 6:39AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		12/07/17 7:43AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		12/07/17 7:43AM	PA/VA
Surr: 1,2-Dichloroethane-d4	98.1	NA	75.9-132	NA		%Rec		12/07/17 7:43AM	
Surr: 4-Bromofluorobenzene	97.0	NA	73.6-132	NA		%Rec		12/07/17 7:43AM	
Surr: Dibromofluoromethane	92.6	NA	80.1-127	NA		%Rec		12/07/17 7:43AM	
Surr: Toluene-d8	98.6	NA	72.4-119	NA		%Rec		12/07/17 7:43AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		12/07/17 6:00AM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 6:00AM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 6:00AM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		12/07/17 6:00AM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 6:00AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:29:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-06A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-108	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 6:00AM	PA/VA
Isopropyl ether	26.4	2.50	5.00	NA	µg/L		12/07/17 6:00AM	
Surr: 1,2-Dichloroethane-d4	126	NA	70-130	NA	%Rec		12/07/17 6:00AM	
Surr: 4-Bromofluorobenzene	114	NA	70-130	NA	%Rec		12/07/17 6:00AM	
Surr: Dibromofluoromethane	101	NA	70-130	NA	%Rec		12/07/17 6:00AM	
Surr: Toluene-d8	109	NA	70-130	NA	%Rec		12/07/17 6:00AM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:55:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-07A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-88	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: JM**	
Xylenes, Total	270	NA	0	NA		µg/L		12/07/17 8:15AM	
Acetone	ND	5.00	10.0	NA		µg/L		12/07/17 8:15AM	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		12/07/17 8:15AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		12/07/17 8:15AM	PA/VA
Benzene	36.4	5.00	10.0	NA		µg/L		12/09/17 7:11AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
2-Butanone	ND	5.00	10.0	NA		µg/L		12/07/17 8:15AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
sec-Butylbenzene	0.540	0.500	1.00	NA	J	µg/L		12/07/17 8:15AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		12/07/17 8:15AM	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Chloroform	6.58	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,2-Dichloroethane	10.1	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 8:15AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:55:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-07A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-88	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Ethylbenzene	11.8	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 8:15AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 8:15AM	PA/VA
Isopropylbenzene	2.16	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
4-Isopropyltoluene	1.78	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 8:15AM	PA/VA
Methyl tert-butyl ether	209	10.0	50.0	NA	µg/L		12/09/17 7:11AM	PA/VA
Naphthalene	30.3	5.00	10.0	NA	µg/L		12/09/17 7:11AM	PA/VA
n-Propylbenzene	2.07	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
1,2,4-Trimethylbenzene	88.8	5.00	10.0	NA	µg/L		12/09/17 7:11AM	PA/VA
1,3,5-Trimethylbenzene	24.4	5.00	10.0	NA	µg/L		12/09/17 7:11AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 8:15AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 8:15AM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.8	NA	75.9-132	NA	%Rec		12/07/17 8:15AM	
Surr: 4-Bromofluorobenzene	99.1	NA	73.6-132	NA	%Rec		12/07/17 8:15AM	
Surr: Dibromofluoromethane	93.8	NA	80.1-127	NA	%Rec		12/07/17 8:15AM	
Surr: Toluene-d8	98.8	NA	72.4-119	NA	%Rec		12/07/17 8:15AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 3:47PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:47PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:47PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 3:47PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 3:47PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/29/2017 6:55:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-07A	**Matrix:**	Groundwater
Client Sample ID:	DW01A-88	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 3:47PM	PA/VA
Isopropyl ether	26.6	2.50	5.00	NA	µg/L		12/07/17 3:47PM	
Surr: 1,2-Dichloroethane-d4	116	NA	70-130	NA	%Rec		12/07/17 3:47PM	
Surr: 4-Bromofluorobenzene	119	NA	70-130	NA	%Rec		12/07/17 3:47PM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		12/07/17 3:47PM	
Surr: Toluene-d8	111	NA	70-130	NA	%Rec		12/07/17 3:47PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 4:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-08A	**Matrix:**	Groundwater
Client Sample ID:	DW04-162	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	NA	0	NA	µg/L		12/07/17 8:46AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 8:46AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 8:46AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 8:46AM	PA/VA
Benzene	3.97	0.500	1.00	NA	µg/L		12/09/17 3:59PM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
2-Butanone	33.6	5.00	10.0	NA	µg/L		12/07/17 8:46AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 8:46AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,2-Dichloroethane	3.16	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 8:46AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 4:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-08A	**Matrix:**	Groundwater
Client Sample ID:	DW04-162	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		12/07/17 8:46AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		12/07/17 8:46AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		12/07/17 8:46AM	PA/VA
Methyl tert-butyl ether	18.8	1.00	5.00	NA		µg/L		12/09/17 3:59PM	PA/VA
Naphthalene	ND	0.500	1.00	NA		µg/L		12/09/17 3:59PM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Toluene	0.600	0.500	1.00	NA	J	µg/L		12/07/17 8:46AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/09/17 3:59PM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		12/07/17 8:46AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		12/07/17 8:46AM	PA/VA
Surr: 1,2-Dichloroethane-d4	94.8	NA	75.9-132	NA		%Rec		12/07/17 8:46AM	
Surr: 4-Bromofluorobenzene	99.2	NA	73.6-132	NA		%Rec		12/07/17 8:46AM	
Surr: Dibromofluoromethane	95.5	NA	80.1-127	NA		%Rec		12/07/17 8:46AM	
Surr: Toluene-d8	94.7	NA	72.4-119	NA		%Rec		12/07/17 8:46AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		12/07/17 1:46PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 1:46PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 1:46PM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		12/07/17 1:46PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 1:46PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 4:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-08A	**Matrix:**	Groundwater
Client Sample ID:	DW04-162	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 1:46PM	PA/VA
Isopropyl ether	7.40	2.50	5.00	NA	µg/L		12/07/17 1:46PM	
Surr: 1,2-Dichloroethane-d4	113	NA	70-130	NA	%Rec		12/07/17 1:46PM	
Surr: 4-Bromofluorobenzene	116	NA	70-130	NA	%Rec		12/07/17 1:46PM	
Surr: Dibromofluoromethane	110	NA	70-130	NA	%Rec		12/07/17 1:46PM	
Surr: Toluene-d8	110	NA	70-130	NA	%Rec		12/07/17 1:46PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 5:09:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-09A	**Matrix:**	Groundwater
Client Sample ID:	DW04-147	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	NA	0	NA	µg/L		12/07/17 9:18AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 9:18AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 9:18AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 9:18AM	PA/VA
Benzene	3.89	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
2-Butanone	55.3	5.00	10.0	NA	µg/L		12/07/17 9:18AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 9:18AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,2-Dichloroethane	3.09	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 9:18AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 5:09:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-09A	**Matrix:**	Groundwater
Client Sample ID:	DW04-147	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		12/07/17 9:18AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		12/07/17 9:18AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		12/07/17 9:18AM	PA/VA
Methyl tert-butyl ether	19.8	1.00	5.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Naphthalene	1.43	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Toluene	0.640	0.500	1.00	NA	J	µg/L		12/07/17 9:18AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		12/07/17 9:18AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		12/07/17 9:18AM	PA/VA
Surr: 1,2-Dichloroethane-d4	93.7	NA	75.9-132	NA		%Rec		12/07/17 9:18AM	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA		%Rec		12/07/17 9:18AM	
Surr: Dibromofluoromethane	95.0	NA	80.1-127	NA		%Rec		12/07/17 9:18AM	
Surr: Toluene-d8	96.7	NA	72.4-119	NA		%Rec		12/07/17 9:18AM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL — **Method: SW8260B** — **Analyst: JM**

tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		12/07/17 12:37PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 12:37PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 12:37PM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		12/07/17 12:37PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 12:37PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 5:09:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-09A	**Matrix:**	Groundwater
Client Sample ID:	DW04-147	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 12:37PM	PA/VA
Isopropyl ether	7.18	2.50	5.00	NA	µg/L		12/07/17 12:37PM	
Surr: 1,2-Dichloroethane-d4	110	NA	70-130	NA	%Rec		12/07/17 12:37PM	
Surr: 4-Bromofluorobenzene	117	NA	70-130	NA	%Rec		12/07/17 12:37PM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		12/07/17 12:37PM	
Surr: Toluene-d8	111	NA	70-130	NA	%Rec		12/07/17 12:37PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 5:32:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-10A	**Matrix:**	Groundwater
Client Sample ID:	DW04-134	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	NA	0	NA	µg/L		12/07/17 9:50AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
Benzene	4.79	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
2-Butanone	51.2	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 9:50AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2-Dichloroethane	3.61	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 5:32:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-10A	**Matrix:**	Groundwater
Client Sample ID:	DW04-134	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
Methyl tert-butyl ether	21.9	1.00	5.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Naphthalene	1.14	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 9:50AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 9:50AM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.0	NA	75.9-132	NA	%Rec		12/07/17 9:50AM	
Surr: 4-Bromofluorobenzene	98.7	NA	73.6-132	NA	%Rec		12/07/17 9:50AM	
Surr: Dibromofluoromethane	95.6	NA	80.1-127	NA	%Rec		12/07/17 9:50AM	
Surr: Toluene-d8	95.9	NA	72.4-119	NA	%Rec		12/07/17 9:50AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 1:13PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 1:13PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 1:13PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 1:13PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 1:13PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 5:32:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-10A	**Matrix:**	Groundwater
Client Sample ID:	DW04-134	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 1:13PM	PA/VA
Isopropyl ether	7.48	2.50	5.00	NA	µg/L		12/07/17 1:13PM	
Surr: 1,2-Dichloroethane-d4	113	NA	70-130	NA	%Rec		12/07/17 1:13PM	
Surr: 4-Bromofluorobenzene	114	NA	70-130	NA	%Rec		12/07/17 1:13PM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		12/07/17 1:13PM	
Surr: Toluene-d8	110	NA	70-130	NA	%Rec		12/07/17 1:13PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 6:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-11A	**Matrix:**	Groundwater
Client Sample ID:	DW04-105	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	NA	0	NA	µg/L		12/07/17 10:22AM	
Acetone	300	50.0	100	NA	µg/L		12/09/17 7:43AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 10:22AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 10:22AM	PA/VA
Benzene	2.72	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
2-Butanone	334	50.0	100	NA	µg/L		12/09/17 7:43AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 10:22AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,2-Dichloroethane	2.57	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 10:22AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 6:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-11A	**Matrix:**	Groundwater
Client Sample ID:	DW04-105	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		12/07/17 10:22AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		12/07/17 10:22AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		12/07/17 10:22AM	PA/VA
Methyl tert-butyl ether	18.9	1.00	5.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Naphthalene	1.08	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Toluene	0.600	0.500	1.00	NA	J	µg/L		12/07/17 10:22AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		12/07/17 10:22AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		12/07/17 10:22AM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.4	NA	75.9-132	NA		%Rec		12/07/17 10:22AM	
Surr: 4-Bromofluorobenzene	98.6	NA	73.6-132	NA		%Rec		12/07/17 10:22AM	
Surr: Dibromofluoromethane	97.3	NA	80.1-127	NA		%Rec		12/07/17 10:22AM	
Surr: Toluene-d8	95.5	NA	72.4-119	NA		%Rec		12/07/17 10:22AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**				**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		12/07/17 4:20PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 4:20PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 4:20PM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		12/07/17 4:20PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 4:20PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 6:05:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-11A	**Matrix:**	Groundwater
Client Sample ID:	DW04-105	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 4:20PM	PA/VA
Isopropyl ether	6.92	2.50	5.00	NA	µg/L		12/07/17 4:20PM	
Surr: 1,2-Dichloroethane-d4	109	NA	70-130	NA	%Rec		12/07/17 4:20PM	
Surr: 4-Bromofluorobenzene	113	NA	70-130	NA	%Rec		12/07/17 4:20PM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		12/07/17 4:20PM	
Surr: Toluene-d8	110	NA	70-130	NA	%Rec		12/07/17 4:20PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 6:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-12A	**Matrix:**	Groundwater
Client Sample ID:	DW04-86	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	NA	0	NA	µg/L		12/07/17 10:54AM	
Acetone	1,120	50.0	100	NA	µg/L		12/09/17 8:15AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 10:54AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 10:54AM	PA/VA
Benzene	2.07	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
2-Butanone	1,050	50.0	100	NA	µg/L		12/09/17 8:15AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 10:54AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,2-Dichloroethane	2.34	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 10:54AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 6:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-12A	**Matrix:**	Groundwater
Client Sample ID:	DW04-86	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		12/07/17 10:54AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		12/07/17 10:54AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		12/07/17 10:54AM	PA/VA
Methyl tert-butyl ether	16.2	1.00	5.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Naphthalene	1.01	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Toluene	0.660	0.500	1.00	NA	J	µg/L		12/07/17 10:54AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		12/07/17 10:54AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		12/07/17 10:54AM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.4	NA	75.9-132	NA		%Rec		12/07/17 10:54AM	
Surr: 4-Bromofluorobenzene	98.9	NA	73.6-132	NA		%Rec		12/07/17 10:54AM	
Surr: Dibromofluoromethane	95.5	NA	80.1-127	NA		%Rec		12/07/17 10:54AM	
Surr: Toluene-d8	96.5	NA	72.4-119	NA		%Rec		12/07/17 10:54AM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL — **Method: SW8260B** — **Analyst: JM**

tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		12/07/17 3:14PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 3:14PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 3:14PM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		12/07/17 3:14PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 3:14PM	

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Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 6:45:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-12A	**Matrix:**	Groundwater
Client Sample ID:	DW04-86	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 3:14PM	PA/VA
Isopropyl ether	6.63	2.50	5.00	NA	µg/L		12/07/17 3:14PM	
Surr: 1,2-Dichloroethane-d4	100	NA	70-130	NA	%Rec		12/07/17 3:14PM	
Surr: 4-Bromofluorobenzene	110	NA	70-130	NA	%Rec		12/07/17 3:14PM	
Surr: Dibromofluoromethane	103	NA	70-130	NA	%Rec		12/07/17 3:14PM	
Surr: Toluene-d8	108	NA	70-130	NA	%Rec		12/07/17 3:14PM	

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WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 11:00:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-13A	**Matrix:**	Groundwater
Client Sample ID:	DW04B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	79.5	2.00	10.0	NA	µg/L	12/04/17 9:00AM	12/08/17 8:06PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
DBCP	ND	0.00747	0.0197	0.200	µg/L	12/06/17 12:53PM	12/07/17 10:22AM	PA/VA
EDB	ND	0.00383	0.0197	0.050	µg/L	12/06/17 12:53PM	12/07/17 10:22AM	PA/VA
Surr: Tetrachloro-m-xylene	45.6	NA	43.4-157	NA	%Rec	12/06/17 12:53PM	12/07/17 10:22AM	
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: NC**
Acenaphthene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Acenaphthylene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Anthracene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Benzidine	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Benzo(a)anthracene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Benzo(a)pyrene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Benzo(b)fluoranthene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Benzo(g,h,i)perylene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Benzo(k)fluoranthene	ND	3.07	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Butyl benzyl phthalate	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
4-Chloro-3-methylphenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2-Chloronaphthalene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2-Chlorophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Chrysene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
o-Cresol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
m,p-Cresol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Di-n-butyl phthalate	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
1,2-Dichlorobenzene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
1,3-Dichlorobenzene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
1,4-Dichlorobenzene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2,4-Dichlorophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Diethyl phthalate	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA

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WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 11:00:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-13A	**Matrix:**	Groundwater
Client Sample ID:	DW04B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2,4-Dimethylphenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2,4-Dinitrophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2,4-Dinitrotoluene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2,6-Dinitrotoluene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Di-n-octyl phthalate	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
1,2-Diphenylhydrazine	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	
Fluoranthene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Fluorene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Hexachlorobenzene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Hexachlorobutadiene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Hexachlorocyclopentadiene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Hexachloroethane	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Isophorone	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Naphthalene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Nitrobenzene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2-Nitrophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
4-Nitrophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
N-Nitrosodimethylamine	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
N-Nitrosodiphenylamine	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Pentachlorophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Phenanthrene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Phenol	ND	5.12	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Pyrene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	
2,4,5-Trichlorophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
2,4,6-Trichlorophenol	ND	2.05	10.2	NA	µg/L	12/04/17 8:28AM	12/06/17 4:30PM	PA/VA
Surr: 2-Fluorophenol	50.4	NA	17.6-120	NA	%Rec	12/04/17 8:28AM	12/06/17 4:30PM	
Surr: Phenol-d5	38.6	NA	11.4-120	NA	%Rec	12/04/17 8:28AM	12/06/17 4:30PM	
Surr: 2,4,6-Tribromophenol	66.0	NA	18-129	NA	%Rec	12/04/17 8:28AM	12/06/17 4:30PM	
Surr: Nitrobenzene-d5	83.4	NA	21.5-122	NA	%Rec	12/04/17 8:28AM	12/06/17 4:30PM	
Surr: 2-Fluorobiphenyl	85.6	NA	23.7-127	NA	%Rec	12/04/17 8:28AM	12/06/17 4:30PM	
Surr: 4-Terphenyl-d14	97.7	NA	39.9-124	NA	%Rec	12/04/17 8:28AM	12/06/17 4:30PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA	µg/L	12/01/17 10:34AM	12/01/17 10:56PM	PA/VA
Surr: 2,5-Dibromotoluene	109	NA	53.5-143	NA	%Rec	12/01/17 10:34AM	12/01/17 10:56PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 11:00:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-13A	**Matrix:**	Groundwater
Client Sample ID:	DW04B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	NA	0	NA	µg/L		12/07/17 11:25AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 11:25AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 11:25AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 11:25AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		12/07/17 11:25AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 11:25AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Chloroform	34.7	5.00	10.0	NA	µg/L		12/09/17 8:46AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 11:25AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 11:00:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-13A	**Matrix:**	Groundwater
Client Sample ID:	DW04B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA		µg/L		12/07/17 11:25AM	PA/VA
Iodomethane	ND	5.00	10.0	NA		µg/L		12/07/17 11:25AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Methylene chloride	1.99	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA		µg/L		12/07/17 11:25AM	PA/VA
Methyl tert-butyl ether	1.48	1.00	5.00	NA	J	µg/L		12/07/17 11:25AM	PA/VA
Naphthalene	0.950	0.500	1.00	NA	J	µg/L		12/07/17 11:25AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Styrene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA		µg/L		12/07/17 11:25AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA		µg/L		12/07/17 11:25AM	PA/VA
Surr: 1,2-Dichloroethane-d4	96.0	NA	75.9-132	NA		%Rec		12/07/17 11:25AM	
Surr: 4-Bromofluorobenzene	99.7	NA	73.6-132	NA		%Rec		12/07/17 11:25AM	
Surr: Dibromofluoromethane	96.0	NA	80.1-127	NA		%Rec		12/07/17 11:25AM	
Surr: Toluene-d8	94.4	NA	72.4-119	NA		%Rec		12/07/17 11:25AM	

VOLATILE ORGANIC COMPOUNDS-ADDITIONAL — **Method: SW8260B** — **Analyst: JM**

tert-Amyl alcohol	ND	0.500	1.00	NA		µg/L		12/07/17 4:53PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 4:53PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 4:53PM	
tert-Butyl alcohol	ND	100	200	NA		µg/L		12/07/17 4:53PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA		µg/L		12/07/17 4:53PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 11:00:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-13A	**Matrix:**	Groundwater
Client Sample ID:	DW04B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 4:53PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		12/07/17 4:53PM	
Surr: 1,2-Dichloroethane-d4	102	NA	70-130	NA	%Rec		12/07/17 4:53PM	
Surr: 4-Bromofluorobenzene	112	NA	70-130	NA	%Rec		12/07/17 4:53PM	
Surr: Dibromofluoromethane	108	NA	70-130	NA	%Rec		12/07/17 4:53PM	
Surr: Toluene-d8	110	NA	70-130	NA	%Rec		12/07/17 4:53PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 11:00:00 AM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-13B	**Matrix:**	Groundwater
Client Sample ID:	DW04B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	ND	0.200	1.00	NA	µg/L	12/04/17 9:00AM	12/08/17 1:47PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 1:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-14A	**Matrix:**	Groundwater
Client Sample ID:	DW13B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	14.7	0.200	1.00	NA	µg/L	12/04/17 9:00AM	12/08/17 1:11PM	PA/VA
EDB AND/OR DBCP				**Method: SW8011**				**Analyst: JH**
DBCP	ND	0.00769	0.0202	0.200	µg/L	12/06/17 12:53PM	12/07/17 10:38AM	PA/VA
EDB	ND	0.00395	0.0202	0.050	µg/L	12/06/17 12:53PM	12/07/17 10:38AM	PA/VA
Surr: Tetrachloro-m-xylene	56.8	NA	43.4-157	NA	%Rec	12/06/17 12:53PM	12/07/17 10:38AM	
SEMIVOLATILE ORGANIC COMPOUNDS				**Method: SW8270D**				**Analyst: NC**
Acenaphthene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Acenaphthylene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Anthracene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Benzidine	ND	5.01	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Benzo(a)anthracene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Benzo(a)pyrene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Benzo(b)fluoranthene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Benzo(g,h,i)perylene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Benzo(k)fluoranthene	ND	3.01	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Bis(2-chloroethoxy)methane	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Bis(2-chloroethyl)ether	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Bis(2-chloroisopropyl)ether	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Bis(2-ethylhexyl)phthalate	ND	5.01	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
4-Bromophenyl phenyl ether	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Butyl benzyl phthalate	ND	5.01	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
4-Chloro-3-methylphenol	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2-Chloronaphthalene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2-Chlorophenol	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
4-Chlorophenyl phenyl ether	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Chrysene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
o-Cresol	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
m,p-Cresol	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Dibenzo(a,h)anthracene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Di-n-butyl phthalate	ND	5.01	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
1,2-Dichlorobenzene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
1,3-Dichlorobenzene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
1,4-Dichlorobenzene	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
3,3´-Dichlorobenzidine	ND	5.01	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2,4-Dichlorophenol	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Diethyl phthalate	ND	2.00	10.0	NA	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 1:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-14A	**Matrix:**	Groundwater
Client Sample ID:	DW13B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
Dimethyl phthalate	6.29	5.01	10.0	NA	J	µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2,4-Dimethylphenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
4,6-Dinitro-2-methylphenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2,4-Dinitrophenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2,4-Dinitrotoluene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2,6-Dinitrotoluene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Di-n-octyl phthalate	ND	5.01	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
1,2-Diphenylhydrazine	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	
Fluoranthene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Fluorene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Hexachlorobenzene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Hexachlorobutadiene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Hexachlorocyclopentadiene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Hexachloroethane	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Indeno(1,2,3-cd)pyrene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Isophorone	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Naphthalene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Nitrobenzene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2-Nitrophenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
4-Nitrophenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
N-Nitrosodimethylamine	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
N-Nitrosodiphenylamine	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
N-Nitrosodi-n-propylamine	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Pentachlorophenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Phenanthrene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Phenol	ND	5.01	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Pyrene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
1,2,4-Trichlorobenzene	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	
2,4,5-Trichlorophenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
2,4,6-Trichlorophenol	ND	2.00	10.0	NA		µg/L	12/04/17 8:28AM	12/06/17 4:52PM	PA/VA
Surr: 2-Fluorophenol	49.5	NA	17.6-120	NA		%Rec	12/04/17 8:28AM	12/06/17 4:52PM	
Surr: Phenol-d5	37.8	NA	11.4-120	NA		%Rec	12/04/17 8:28AM	12/06/17 4:52PM	
Surr: 2,4,6-Tribromophenol	67.8	NA	18-129	NA		%Rec	12/04/17 8:28AM	12/06/17 4:52PM	
Surr: Nitrobenzene-d5	83.1	NA	21.5-122	NA		%Rec	12/04/17 8:28AM	12/06/17 4:52PM	
Surr: 2-Fluorobiphenyl	79.1	NA	23.7-127	NA		%Rec	12/04/17 8:28AM	12/06/17 4:52PM	
Surr: 4-Terphenyl-d14	101	NA	39.9-124	NA		%Rec	12/04/17 8:28AM	12/06/17 4:52PM	
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: CB**	
TPH (Gasoline Range: C6 - C10)	ND	250	500	NA		µg/L	12/01/17 10:34AM	12/01/17 11:27PM	PA/VA
Surr: 2,5-Dibromotoluene	109	NA	53.5-143	NA		%Rec	12/01/17 10:34AM	12/01/17 11:27PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 1:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-14A	**Matrix:**	Groundwater
Client Sample ID:	DW13B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: JM**	
Xylenes, Total	ND	NA	0	NA	µg/L		12/07/17 11:57AM	
Acetone	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
2-Butanone	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		12/07/17 11:57AM	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2-Dibromo-3-chloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 1:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-14A	**Matrix:**	Groundwater
Client Sample ID:	DW13B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
4-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
Methyl tert-butyl ether	ND	1.00	5.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		12/07/17 11:57AM	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		12/07/17 11:57AM	PA/VA
Surr: 1,2-Dichloroethane-d4	95.6	NA	75.9-132	NA	%Rec		12/07/17 11:57AM	
Surr: 4-Bromofluorobenzene	97.3	NA	73.6-132	NA	%Rec		12/07/17 11:57AM	
Surr: Dibromofluoromethane	96.9	NA	80.1-127	NA	%Rec		12/07/17 11:57AM	
Surr: Toluene-d8	94.9	NA	72.4-119	NA	%Rec		12/07/17 11:57AM	
VOLATILE ORGANIC COMPOUNDS-ADDITIONAL				**Method: SW8260B**			**Analyst: JM**	
tert-Amyl alcohol	ND	0.500	1.00	NA	µg/L		12/07/17 5:26PM	
tert-Amyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 5:26PM	
tert-Amyl Methyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 5:26PM	
tert-Butyl alcohol	ND	100	200	NA	µg/L		12/07/17 5:26PM	PA/VA
tert-Butyl Ethyl Ether	ND	0.500	1.00	NA	µg/L		12/07/17 5:26PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 1:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-14A	**Matrix:**	Groundwater
Client Sample ID:	DW13B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
Ethanol	ND	100	200	NA	µg/L		12/07/17 5:26PM	PA/VA
Isopropyl ether	ND	2.50	5.00	NA	µg/L		12/07/17 5:26PM	
Surr: 1,2-Dichloroethane-d4	113	NA	70-130	NA	%Rec		12/07/17 5:26PM	
Surr: 4-Bromofluorobenzene	111	NA	70-130	NA	%Rec		12/07/17 5:26PM	
Surr: Dibromofluoromethane	104	NA	70-130	NA	%Rec		12/07/17 5:26PM	
Surr: Toluene-d8	109	NA	70-130	NA	%Rec		12/07/17 5:26PM	

REI Consultants, Inc. - Analytical Report

WO#: 17120023

Date Reported: 12/13/2017
Original

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	11/28/2017 1:30:00 PM
Project:	CHAMBLISSBURG SUPPLY - CSVI	**Date Received:**	11/30/2017
Lab ID:	17120023-14B	**Matrix:**	Groundwater
Client Sample ID:	DW13B	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
DISSOLVED METALS BY ICP-MS				**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: CGW**
Lead	ND	0.200	1.00	NA	µg/L	12/04/17 9:00AM	12/08/17 1:41PM	PA/VA

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**17120023**
RCPNo:	**1**	Date and Time Received:	**11/30/2017 7:55:00 PM**	Received by:	**Destiny Duncan**
Completed By:	**Mary Ann Holley**		Reviewed By:	**Billy Shirley**	
Completed Date:	**12/1/2017 9:15:58 AM**		Reviewed Date:	**12/1/2017 10:12 AM**	

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 0.9 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **17120023**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN OF CUSTODY RECORD

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE _____ SHEET _____

REIC

Research Environmental & Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # _____
Contact Person Mr. Trev Greene Phone (540) 483-3311
Address 570 Redbud Hill Road City ROCKY MOUNT State VA Zip 24151
Billing Address (if different) _____
City _____ State _____ Zip _____
Site ID & State VIRGINIA Proj ID Chamblissburg Supply - CSVI Sampler TG, AF

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

TURNAROUND TIME: [x] NORMAL — RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

Send Results Via: [x] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED:
- VOCs via 8260 + Oxygenates (see comments)
- TPH-GRO via 8015
- SVOCs via 8270
- EDB/DBCP via 8011
- Total Lead via 200.8
- Dissolved Lead via 200.8

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*1	*1	*0	*0	*2	*2	*	*	*
DW01A-256	4 voa	11/29/17 @1552	G Water	Grab	X								
DW01A-211	4 voa	11/29/17 @ 1642	G Water	Grab	X								
DW01A-179	4 voa	11/29/17 @ 1712	G Water	Grab	X								
DW01A-159	4 voa	11/29/17 @ 1742	G Water	Grab	X								
DW01A-143	4 voa	11/29/17 @ 1802	G Water	Grab	X								
DW01A-108	4 voa	11/29/17 @ 1829	G Water	Grab	X								
DW01A-88	4 voa	11/29/17 @ 1855	G Water	Grab	X								
DW04-162	4 voa	11/28/17 @ 1645	G Water	Grab	X								
DW04-147	4 voa	11/28/17 @ 1709	G Water	Grab	X								
DW04-134	4 voa	11/28/17 @ 1732	G Water	Grab	X								

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 _____ *
* (Use blank for a preservative not listed.)

COMMENTS:
For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE, Min. 1ppb MDL - benz. & MTBE

DW04B and DW13B includes 2 liter ambers, 5 40mL HCL, 2 40mL unpreserved, 1 250mL nitric, 1 250mL nitric (field filtered).

Page 1 of 2

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 0.9 °C ICED? Y ✓ N ___ IR # 1 Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

RECD [signature]	Date/Time 11/30/17 1000	RECD [signature]	Date/Time 11-30-17 1745	RECD	Date/Time 11-30-17 1755
RECD [signature]	Date/Time 11-30-17 1407	RECD	Date/Time	RECD	Date/Time
[signature]	Date/Time 11-30-17 1346	RECD	Date/Time	RECD	Date/Time
RECD [signature]	Date/Time 11-30-17 1612	RECD	Date/Time	RECD	Date/Time

CHAIN OF CUSTODY RECORD

17120023

GREENE ENVIRONMENTAL SERVICES LLC
GRE096
Billy Shirley

REIC
Industrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

v13-0516 REIC use ONLY CLIENT ID GRE096 DATE ____ SHEET ____

Client: GREENE ENVIRONMENTAL SERVICES, LLC PO # ____
Contact Person: Mr. Trev Greene Phone: (540) 483-3311
Address: 570 Redbud Hill Road City: ROCKY MOUNT State: VA Zip: 24151
Billing Address (if different) ____
City ____ State ____ Zip ____
Site ID & State: VIRGINIA Proj ID: Chamblissburg Supply - CSVI Sampler: TG, AF

TURNAROUND TIME: [•] NORMAL — RUSH TURNAROUND*: [ ] 5 DAY [ ] 3 DAY [ ] 2 DAY [ ] 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges.

Send Results Via: [•] Email [ ] Fax

All analytical requests are subject to REIC's Standard Terms and Conditions.

ANALYSIS & METHOD REQUESTED: VOCs via 8260 + Oxygenates (see comments); TPH-GRO via 8015; SVOCs via 8270; EDB/DBCP via 8011; Total Lead via 200.8; Dissolved Lead via 200.8

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	*1	*1	*0	*0	*2	*2	*	*	*
DW04-105	4 voa	11/28/17 @ 1805	G Water	Grab	X								
DW04-B6	4 voa	11/28/17 @ 1845	G Water	Grab	X								
DW04B	see comments	11/28/17 @ 1100	G Water	Grab	X	X	X	X	X	X			
DW13B	see comments	11/28/17 @ 1330	G Water	Grab	X	X	X	X	X	X			

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 CR6 Buffer
11 Sodium Sulfite/ Hydrochloric Acid
12 ____*
*(Use blank for a preservative not listed.)

COMMENTS:
For 8260, Include Oxygenates: ethanol, TAA, TAEE, TBA, TAME, ETBE, DIPE. Min. 1ppb MDL - benz. & MTBE

DW04B and DW13B includes 2 liter ambers, 5 40mL HCL, 2 40mL unpreserved, 1 250mL nitric, 1 250mL nitric (field filtered).

Page 2 of 2

CUSTODY SEALS [ ] Y [✓] N

Corrected temp at arrival: 0.4 °C ICED? Y✓ N___ IR # ____ Containers provided by: [✓] REIC [ ] Client Delivered by: [ ] Client [✓] REIC [ ] UPS [ ] FedEx [ ] USPS

RECD	Date/Time	RECD	Date/Time	RECD	Date/Time
[signature]	11-28-17 1000	[signature]	11-28-17 1745		11-28-17 1935
[signature]	11-28-17 1407				
[signature]	11-30-17				
[signature]	11-30-17 1612				

APPENDIX E

Aquifer Characterization

Super Slug™ Pump-Down Test Data & Graphical Representations

Rising Head Slug Test

Site Name:	Chamblissburg Supply
Location:	Vinton, VA
Test Date:	October 10, 2017
Client:	Estate of Lacy Dudley
Project Number:	CSVI1002
Import File:	C:\Users\Adam\Documents\Greene Environmental\Chamblissburg Supply\CSVI1002

Well Label:	MW01
Aquifer Thickness:	8.92 feet
Screen Length:	30. feet
Casing Radius:	8.33e-002 feet
Effective Radius:	0.2813 feet
Gravel Pack Porosity:	30. %
Corrected Casing Radius:	0.1691 feet
Static Water Level:	0. feet
Water Table to Screen Bottom:	8.92 feet
Anisotropy Ratio:	1.
Time Adjustment:	0. Seconds

Test starts with trial 0
There are 109 time and drawdown measurements
Maximum head is 6.482 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	6.482	6.482	1.
2	15.	15.	6.475	6.475	0.9989
3	30.	30.	6.077	6.077	0.9374
4	45.	45.	5.932	5.932	0.9152
5	60.	60.	5.798	5.798	0.8944
6	75.	75.	6.003	6.003	0.9262
7	90.	90.	5.804	5.804	0.8954
8	105.	105.	5.268	5.268	0.8128
9	120.	120.	4.755	4.755	0.7336
10	135.	135.	4.27	4.27	0.6587
11	150.	150.	3.827	3.827	0.5904
12	165.	165.	3.43	3.43	0.5291
13	180.	180.	3.142	3.142	0.4847
14	195.	195.	3.044	3.044	0.4696
15	210.	210.	2.991	2.991	0.4614
16	225.	225.	2.936	2.936	0.4529
17	240.	240.	2.893	2.893	0.4463
18	255.	255.	2.821	2.821	0.4353
19	270.	270.	2.738	2.738	0.4224
20	285.	285.	2.664	2.664	0.411
21	300.	300.	2.573	2.573	0.3969
22	315.	315.	2.478	2.478	0.3823
23	330.	330.	2.4	2.4	0.3703
24	345.	345.	2.313	2.313	0.3568
25	360.	360.	2.24	2.24	0.3455
26	375.	375.	2.167	2.167	0.3344
27	390.	390.	2.09	2.09	0.3225
28	405.	405.	2.029	2.029	0.3131
29	420.	420.	1.958	1.958	0.302
30	435.	435.	1.894	1.894	0.2922
31	450.	450.	1.828	1.828	0.2821

32	465.	465.	1.77	1.77	0.2731
33	480.	480.	1.721	1.721	0.2655
34	495.	495.	1.661	1.661	0.2562
35	510.	510.	1.615	1.615	0.2491
36	525.	525.	1.572	1.572	0.2426
37	540.	540.	1.524	1.524	0.2352
38	555.	555.	1.478	1.478	0.228
39	570.	570.	1.44	1.44	0.2221
40	585.	585.	1.395	1.395	0.2152
41	600.	600.	1.358	1.358	0.2096
42	615.	615.	1.325	1.325	0.2044
43	630.	630.	1.292	1.292	0.1993
44	645.	645.	1.254	1.254	0.1935
45	660.	660.	1.227	1.227	0.1892
46	675.	675.	1.195	1.195	0.1844
47	690.	690.	1.167	1.167	0.18
48	705.	705.	1.136	1.136	0.1753
49	720.	720.	1.111	1.111	0.1713
50	735.	735.	1.076	1.076	0.166
51	750.	750.	1.056	1.056	0.1629
52	765.	765.	1.028	1.028	0.1585
53	780.	780.	1.002	1.002	0.1546
54	795.	795.	0.9745	0.9745	0.1503
55	810.	810.	0.9459	0.9459	0.1459
56	825.	825.	0.9288	0.9288	0.1433
57	840.	840.	0.9109	0.9109	0.1405
58	855.	855.	0.8898	0.8898	0.1373
59	870.	870.	0.876	0.876	0.1351
60	885.	885.	0.8509	0.8509	0.1313
61	900.	900.	0.8285	0.8285	0.1278
62	915.	915.	0.8063	0.8063	0.1244
63	930.	930.	0.7929	0.7929	0.1223
64	945.	945.	0.7689	0.7689	0.1186
65	960.	960.	0.7514	0.7514	0.1159
66	975.	975.	0.7395	0.7395	0.1141
67	990.	990.	0.7233	0.7233	0.1116
68	1005	1005	0.7044	0.7044	0.1087
69	1020	1020	0.7013	0.7013	0.1082
70	1035	1035	0.6867	0.6867	0.1059
71	1050	1050	0.6655	0.6655	0.1027
72	1065	1065	0.6588	0.6588	0.1016
73	1080	1080	0.6506	0.6506	0.1004
74	1095	1095	0.6292	0.6292	9.707e-002
75	1110	1110	0.6144	0.6144	9.479e-002
76	1125	1125	0.5963	0.5963	9.199e-002
77	1140	1140	0.5929	0.5929	9.147e-002
78	1155	1155	0.5773	0.5773	8.906e-002
79	1170	1170	0.5638	0.5638	8.698e-002
80	1185	1185	0.5566	0.5566	8.587e-002
81	1200	1200	0.5424	0.5424	8.368e-002
82	1215	1215	0.5335	0.5335	8.23e-002
83	1230	1230	0.527	0.527	8.13e-002
84	1245	1245	0.5094	0.5094	7.859e-002
85	1260	1260	0.5066	0.5066	7.815e-002
86	1275	1275	0.4987	0.4987	7.694e-002
87	1290	1290	0.4846	0.4846	7.476e-002
88	1305	1305	0.4734	0.4734	7.303e-002

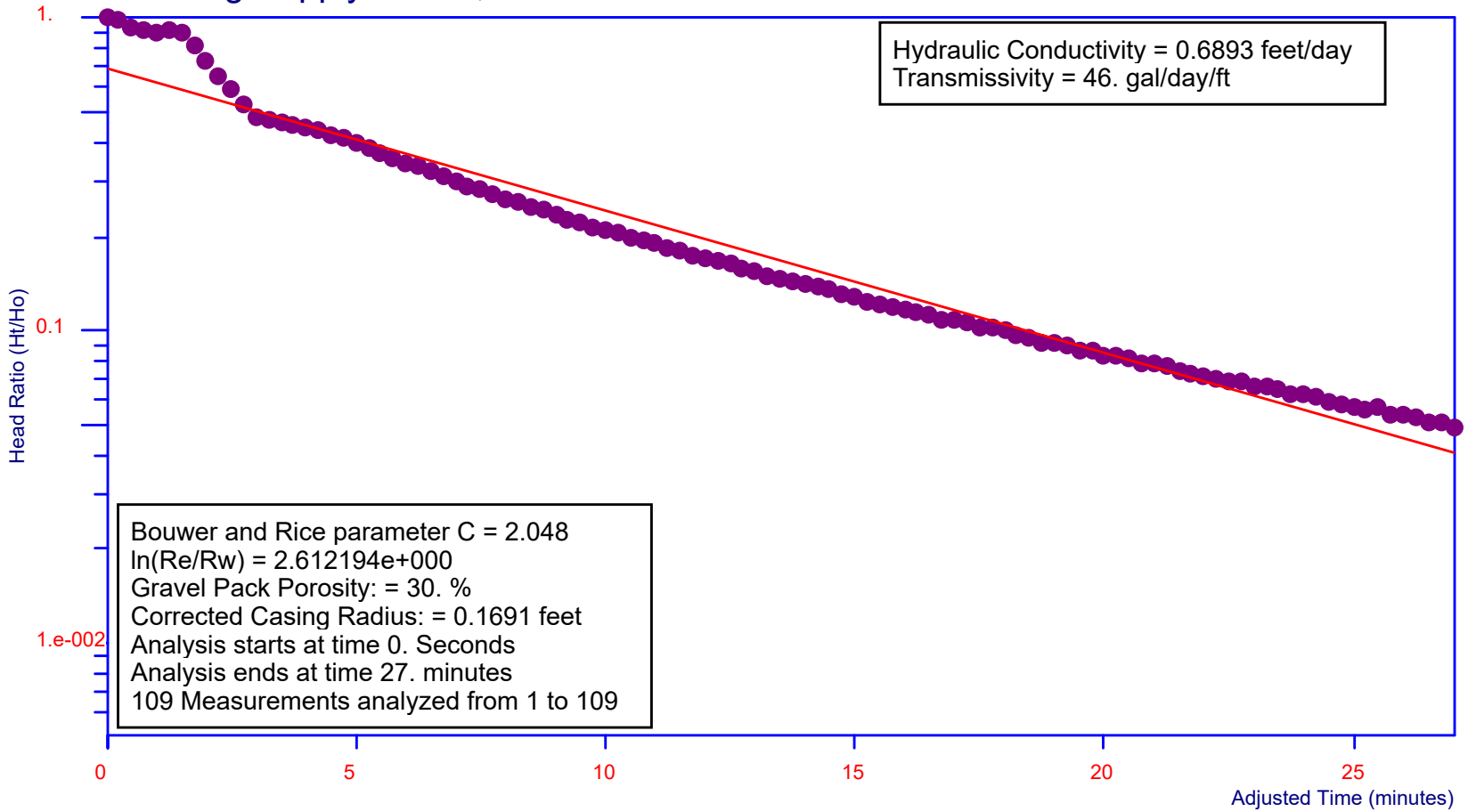
89	1320	1320	0.4591	0.4591	7.083e-002
90	1335	1335	0.4548	0.4548	7.016e-002
91	1350	1350	0.4478	0.4478	6.908e-002
92	1365	1365	0.4416	0.4416	6.813e-002
93	1380	1380	0.4299	0.4299	6.632e-002
94	1395	1395	0.4251	0.4251	6.558e-002
95	1410	1410	0.4227	0.4227	6.521e-002
96	1425	1425	0.409	0.409	6.31e-002
97	1440	1440	0.4055	0.4055	6.256e-002
98	1455	1455	0.3955	0.3955	6.102e-002
99	1470	1470	0.3859	0.3859	5.953e-002
100	1485	1485	0.3769	0.3769	5.815e-002
101	1500	1500	0.371	0.371	5.724e-002
102	1515	1515	0.3624	0.3624	5.591e-002
103	1530	1530	0.3681	0.3681	5.679e-002
104	1545	1545	0.3491	0.3491	5.386e-002
105	1560	1560	0.3467	0.3467	5.349e-002
106	1575	1575	0.3438	0.3438	5.304e-002
107	1590	1590	0.3309	0.3309	5.105e-002
108	1605	1605	0.3281	0.3281	5.062e-002
109	1620	1620	0.317	0.317	4.89e-002

Rising Head Slug Test October 10, 2017

Bouwer and Rice Graph

Chamblissburg Supply Vinton, VA

MW01



Project Number: CSVI1002 for Estate of Lacy Dudley

Analysis by Starpoint Software

Ho is 6.482 feet at 0. Seconds

Rising Head Slug Test

Site Name:	Chamblissburg Supply
Location:	Vinton, VA
Test Date:	October 10, 2017
Client:	Estate of Lacy Dudley
Project Number:	CSVI1002
Import File:	C:\Users\Adam\Documents\Greene Environmental\Chamblissburg Supply\CSVI1002

Well Label:	MW11
Aquifer Thickness:	10.17 feet
Screen Length:	30. feet
Casing Radius:	8.33e-002 feet
Effective Radius:	0.2813 feet
Gravel Pack Porosity:	30. %
Corrected Casing Radius:	0.1691 feet
Static Water Level:	0. feet
Water Table to Screen Bottom:	10.17 feet
Anisotropy Ratio:	1.
Time Adjustment:	0. Seconds

Test starts with trial 0
There are 72 time and drawdown measurements
Maximum head is 9.391 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	0.	9.391	9.391	1.
2	15.	15.	6.882	6.882	0.7328
3	30.	30.	6.289	6.289	0.6697
4	45.	45.	5.728	5.728	0.6099
5	60.	60.	5.194	5.194	0.5531
6	75.	75.	4.689	4.689	0.4993
7	90.	90.	4.216	4.216	0.449
8	105.	105.	3.77	3.77	0.4015
9	120.	120.	3.378	3.378	0.3597
10	135.	135.	3.093	3.093	0.3293
11	150.	150.	2.88	2.88	0.3067
12	165.	165.	2.752	2.752	0.2931
13	180.	180.	2.664	2.664	0.2837
14	195.	195.	2.587	2.587	0.2755
15	210.	210.	2.505	2.505	0.2668
16	225.	225.	2.427	2.427	0.2584
17	240.	240.	2.329	2.329	0.248
18	255.	255.	2.232	2.232	0.2376
19	270.	270.	2.128	2.128	0.2266
20	285.	285.	2.046	2.046	0.2179
21	300.	300.	1.96	1.96	0.2087
22	315.	315.	1.881	1.881	0.2003
23	330.	330.	1.81	1.81	0.1928
24	345.	345.	1.743	1.743	0.1857
25	360.	360.	1.677	1.677	0.1785
26	375.	375.	1.619	1.619	0.1724
27	390.	390.	1.558	1.558	0.1659
28	405.	405.	1.506	1.506	0.1604
29	420.	420.	1.451	1.451	0.1545
30	435.	435.	1.399	1.399	0.149
31	450.	450.	1.353	1.353	0.1441

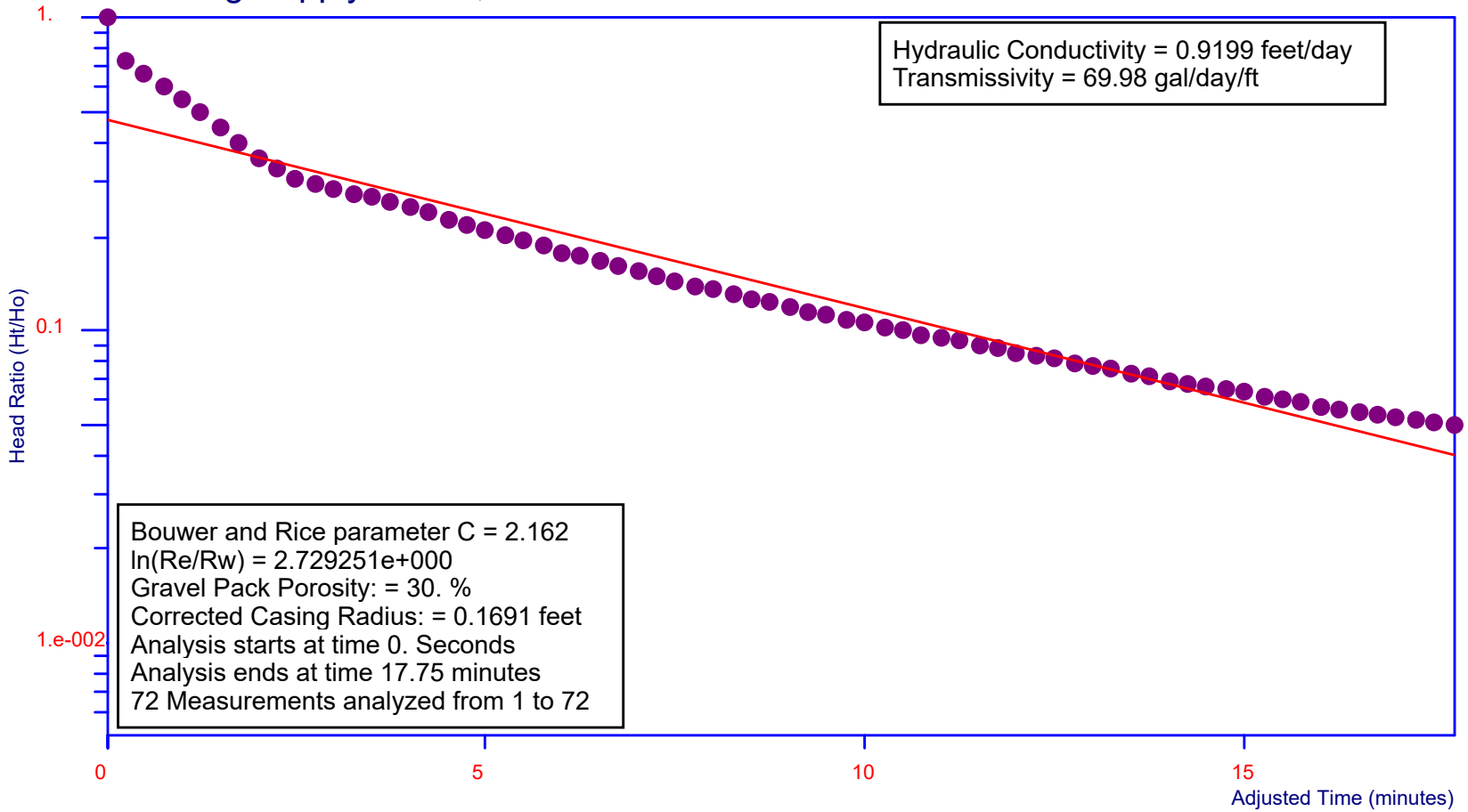
32	465.	465.	1.311	1.311	0.1396
33	480.	480.	1.265	1.265	0.1347
34	495.	495.	1.229	1.229	0.1308
35	510.	510.	1.188	1.188	0.1266
36	525.	525.	1.152	1.152	0.1227
37	540.	540.	1.116	1.116	0.1188
38	555.	555.	1.085	1.085	0.1155
39	570.	570.	1.055	1.055	0.1123
40	585.	585.	1.024	1.024	0.109
41	600.	600.	0.9933	0.9933	0.1058
42	615.	615.	0.9607	0.9607	0.1023
43	630.	630.	0.9416	0.9416	0.1003
44	645.	645.	0.9148	0.9148	9.741e-002
45	660.	660.	0.8957	0.8957	9.537e-002
46	675.	675.	0.8689	0.8689	9.252e-002
47	690.	690.	0.844	0.844	8.987e-002
48	705.	705.	0.8229	0.8229	8.763e-002
49	720.	720.	0.8019	0.8019	8.539e-002
50	735.	735.	0.7808	0.7808	8.315e-002
51	750.	750.	0.7617	0.7617	8.111e-002
52	765.	765.	0.7407	0.7407	7.887e-002
53	780.	780.	0.7196	0.7196	7.663e-002
54	795.	795.	0.7043	0.7043	7.5e-002
55	810.	810.	0.6832	0.6832	7.275e-002
56	825.	825.	0.666	0.666	7.092e-002
57	840.	840.	0.6507	0.6507	6.929e-002
58	855.	855.	0.6354	0.6354	6.766e-002
59	870.	870.	0.6201	0.6201	6.603e-002
60	885.	885.	0.6048	0.6048	6.44e-002
61	900.	900.	0.5933	0.5933	6.318e-002
62	915.	915.	0.578	0.578	6.154e-002
63	930.	930.	0.5627	0.5627	5.991e-002
64	945.	945.	0.5531	0.5531	5.889e-002
65	960.	960.	0.5378	0.5378	5.726e-002
66	975.	975.	0.5263	0.5263	5.604e-002
67	990.	990.	0.5167	0.5167	5.502e-002
68	1005	1005	0.5072	0.5072	5.4e-002
69	1020	1020	0.4957	0.4957	5.278e-002
70	1035	1035	0.4861	0.4861	5.176e-002
71	1050	1050	0.4765	0.4765	5.074e-002
72	1065	1065	0.4651	0.4651	4.952e-002

Rising Head Slug Test October 10, 2017

Bouwer and Rice Graph

Chamblissburg Supply Vinton, VA

MW11



Ho is 9.391 feet at 0. Seconds

Project Number: CSVI1002 for Estate of Lacy Dudley

Analysis by Starpoint Software

APPENDIX F

Associated Documents

VA DEQ Letter Dated September 6, 2017
Tank Tightness Test Report Dated June 28, 2017 – Environmental Solutions
Tank Tightness Test Report Dated October 17, 2017 – Environmental Solutions
Drum Disposal Bills of Lading – Environmental Options, Inc.
Site Access Agreement – Farkas Residence
Site Access Agreement – Houck Residence

COMMONWEALTH of VIRGINIA

Molly Joseph Ward
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
3019 Peters Creek Road, Roanoke, Virginia 24019
(540) 562-6700; Fax (540) 562-6725
www.deq.virginia.gov

David K. Paylor
Director

Robert J. Weld
Regional Director

September 6, 2017

The Estate of Lacy F. Dudley
c/o: Mr. Mark Dudley
Chamblissburg Supply (dba Elei's)
4118 Mudlick Road, SW
Roanoke, Virginia 24018

RE: Technical Review of the Release Investigation Report (RIR) at: Chamblissburg Supply (dba Elei's), 10625 Stewartsville Road (Route 24), County of Bedford, Vinton, Virginia, LUST PC No. 2017-2298, Facility I.D. No. 2-007350, CEDS I.D. No. 200000088223

Dear Mr. Dudley:

A technical review of the above referenced site investigation report has been completed. Based on our review of the release information provided and the conditions at the site, additional work is required. Upon completion of this additional site work a Site Characterization Report (SCR) must be submitted to the Blue Ridge Regional Office – Roanoke Office by **January 6th, 2018**.

Please review the following comments, discuss these with your consultant, and provide an appropriate response:

1. All underground petroleum tanks and lines must be helium tested for leaks. Special attention must be paid to the gasoline lines and they must be isolated and pressurized to show they hold pressure.
2. Water well completion reports must be obtained where possible for all impacted and threatened potable water wells at the site.
3. Where water well completion reports cannot be obtained for impacted supply wells, an attempt must be made to preform geophysical logging on the impacted well. The geophysical work must include a caliper log and other work as agreed upon by the DEQ.
4. A detailed geologic analysis of the area is required. Strike and dip measurements are necessary for all faults, fractures, bedding planes, etc. in the area, visible or recorded elsewhere.
5. Surface water samples are required and must include the pond northeast of the release site and the tributary to the East Fork of Beaverdam Creek. Analysis must include EDB, SVOC, VOC, and TPH-GRO tests.

6. Shallow ground water monitoring wells are required both on and off site. The wells must be sited to detect free phase petroleum and dissolved phase contamination. The wells must be sampled for EDB, SVOC, VOC, TPH-GRO, and total and dissolved lead.
7. Additional potable water wells east of the site must be sampled for initial impact.
8. All impacted drinking water wells and drinking water wells at significant risk of impact must be resampled and tested for EDB, SVOC, VOC, TPH-GRO, and total and dissolved lead.
9. Work should begin now to site new potential locations for replacement drinking water wells. Which properties will require an easement? Deep monitoring wells and alternate well lot characterizations will begin in earnest during the next report.
10. Let's examine methods for source removal. Is source removal a possibility here?
11. Iso-concentration maps and cross sections are required in the next report. Based on the geologic work already requested, resistivity lines maybe necessary.

The Virginia Petroleum Storage Tank Fund (VPSTF) has established procedures for financial reimbursement for authorized corrective action activities. Current information concerning VPSTF reimbursement is outlined in the Reimbursement Guidance Manual.

Prior approval of the site work is required if you plan to seek reimbursement for this pollution event. Enclosed with this letter is a Petroleum Cleanup Activity Authorization Form (AAF). For reimbursement eligibility you or your consultant must complete this form, specifying each task necessary to address the technical review issues. A topographic site map (1 inch: 2000 feet) and an approximate scaled map of the site showing pertinent features must accompany the Petroleum Cleanup Activity Authorization form. The form and site maps should be mailed or a facsimile sent to the Blue Ridge Regional Office – Roanoke for prior approval of this work on or before **September 20th, 2017**.

We encourage you to expedite the additional site work necessary to address the issues and to avoid enforcement action. Questions you may have concerning this technical review, the additional scope of work, or the reporting schedule should be directed to my attention.

Sincerely,

Robert L. Howard

Robert L. Howard, PG
Geologist Supervisor
Site Coordinator

SCR Request.doc

cc: File ECM via e-mail
Arthur T. Greene, Greene Environmental via e-mail

EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallons	TANK #	1
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Super		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATA SHEET

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**1**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Super**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

36.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.936**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.936**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.936**	+/-PSI (5)
Always add .5 PSI			+	**1.436**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.500**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**9:00 AM**	
Test Pressure Reached:	**9:15 AM**	**1.500**
Blower Turned Off:	**9:30 AM**	**1.500**
Test Began:	**9:45 AM**	**1.500**
Test Ended:	**10:00 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

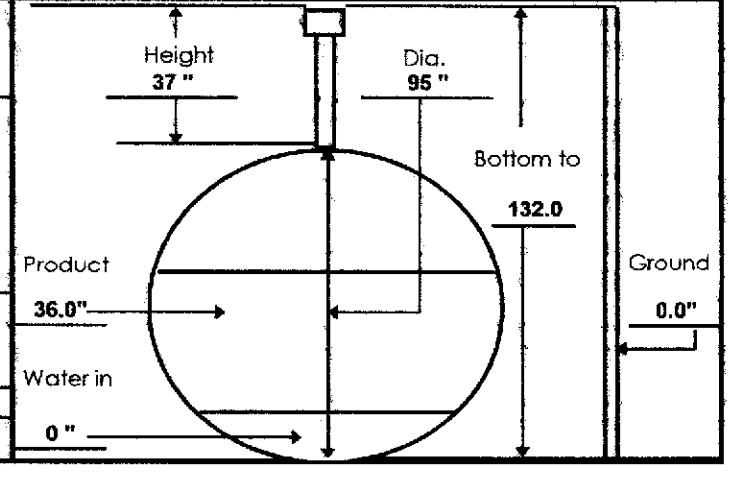
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallons	TANK #	2
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 2		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**2**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Regular 2**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

36.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.936**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.936**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.936**	+/-PSI (5)
Always add .5 PSI NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI			+	**1.436**	PSI (6)
TEST PRESSURE			=	**1.500**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**9:00 AM**	
Test Pressure Reached:	**9:15 AM**	**1.500**
Blower Turned Off:	**9:30 AM**	**1.500**
Test Began:	**9:45 AM**	**1.500**
Test Ended:	**10:00 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

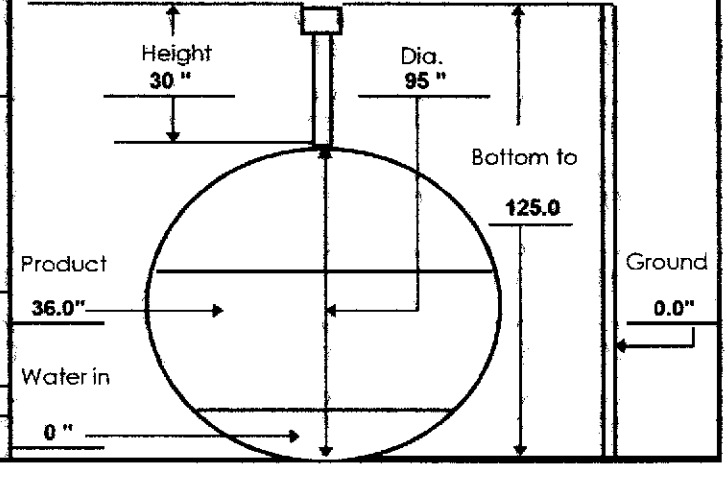
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	6000 Gallons	TANK #	3
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 1		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	Wednesday, June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallon	TANK #	3
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 1		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

40.0 (INCHES OF PRODUCT)	X	0.026 (WEIGHT OF PRODUCT)	=	1.040	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	1.040	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	1.040	+/-PSI (5)
Always add .5 PSI			+	1.540	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.600	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	10:15 AM	
Test Pressure Reached:	10:30 AM	1.600
Blower Turned Off:	10:45 AM	1.600
Test Began:	11:00 AM	1.600
Test Ended:	11:15 AM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

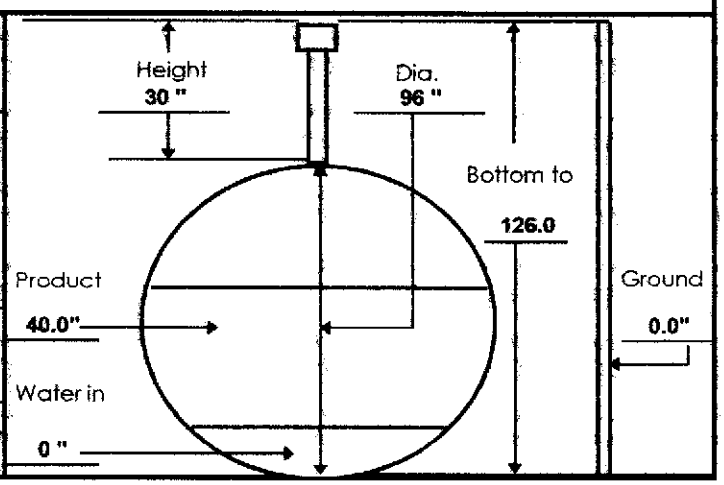
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	4000 Gallons	TANK #	4
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Plus		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**4000 Gallon**	TANK #	**4**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Plus**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

33.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.858**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.858**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.858**	+/-PSI (5)
Always add .5 PSI			+	**1.358**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.400**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**10:15 AM**	
Test Pressure Reached:	**10:30 AM**	**1.400**
Blower Turned Off:	**10:45 AM**	**1.400**
Test Began:	**11:00 AM**	**1.400**
Test Ended:	**11:15 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

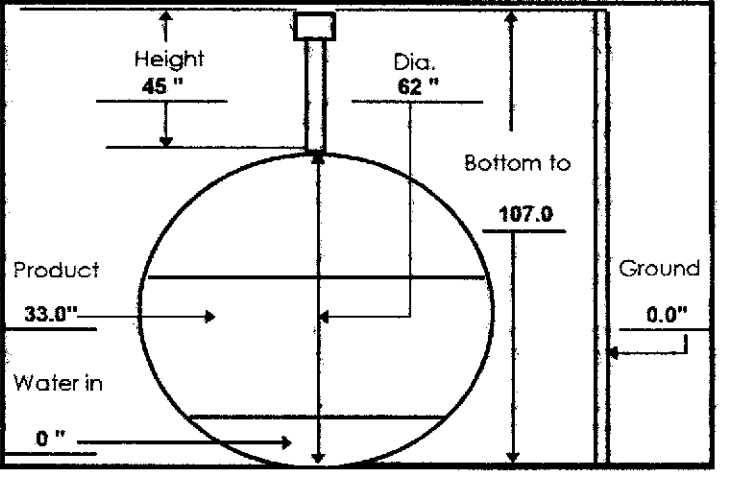
Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallons	TANK #	5
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Diesel		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

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Cloverdale, Virginia 24077
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EZY 3 LOCATOR PLUS

PRESSURE CALCULATION & WATER SENSOR CALIBRATION

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATA SHEET

DATE	**Wednesday, June 28, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**1000 Gallon**	TANK #	**5**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Diesel**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

10.0 (INCHES OF PRODUCT)	X	**0.031** (WEIGHT OF PRODUCT)	=	**0.310**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.310**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.310**	+/-PSI (5)
Always add .5 PSI			+	**0.810**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**0.850**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**12:00 PM**	
Test Pressure Reached:	**12:10 PM**	**0.850**
Blower Turned Off:	**12:20 PM**	**0.850**
Test Began:	**12:30 PM**	**0.850**
Test Ended:	**12:40 PM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

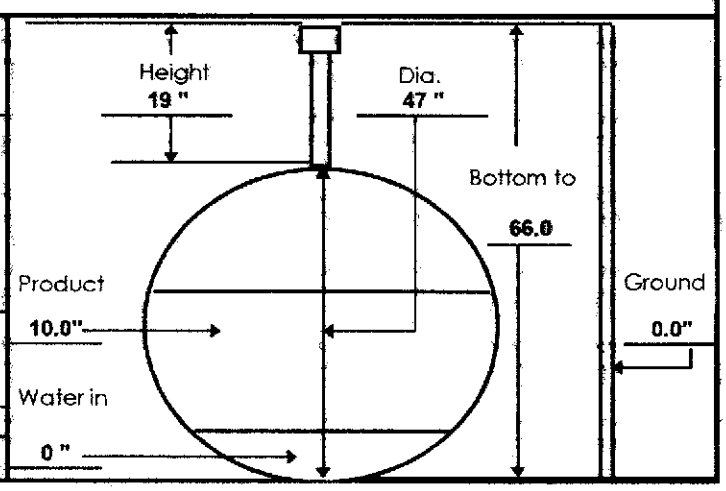
Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallons	TANK #	6
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Kerosene		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name		Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

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Cloverdale, Virginia 24077
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Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	Wednesday, June 28, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallon	TANK #	6
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Kerosene		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

21.0 (INCHES OF PRODUCT)	X	0.029 (WEIGHT OF PRODUCT)	=	0.609	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.609	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.609	+/-PSI (5)
Always add .5 PSI			+	1.109	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.150	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	12:00 PM	
Test Pressure Reached:	12:10 PM	1.150
Blower Turned Off:	12:20 PM	1.150
Test Began:	12:30 PM	1.150
Test Ended:	12:40 PM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

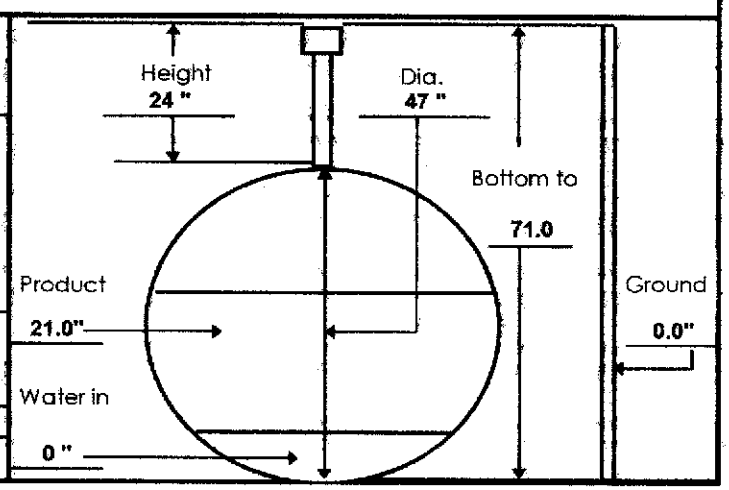
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

October 17, 2017

Greene Environmental
570 Redbud Hill Road
Rocky Mount, VA 24151

Testing Location:
Chamblissburg Supply and Grocery
10625 Stewartsville Road
Vinton, VA 24179

RE: UST/Line Tightness Testing Helium Test

Initial Testing Summary

As requested by Greene Environmental (Greene), Environmental Solutions (ES), has performed tightness testing of the six (6) underground storage tanks (USTs) and associated distribution systems located at the above referenced facility. On, June 28, 2017, ES personnel visited the property to perform precision testing (vacuum type) via the Estabrook™ Tank Testing System.

The procedure for testing using the Estabrook ™ system is:

1. Determine the amount of negative pressure/vacuum needed to perform test. This is based on the height of the fuel, head pressure, and internal pressure created by the water table.
2. Completely seal off all tank openings and establish the earlier calculated negative pressure.
3. After vacuum is established, ES analyzes the sounds from the tanks for five (5) minutes to determine if there is any leakage. While evaluating the acoustic signals we monitor our pressure sensor for vacuum loss.

The tanks held vacuum and no evidence of leaking was indicated based on the acoustic evaluation. The product lines were not tested during this event due to the design of European style suction systems and the inability to easily remove the check valve beneath the product dispensers. The lack of communication between the tanks and their respective

product lines for the purposes of tightness testing was confirmed by cracking open a union fitting beneath each product dispenser/pump. ES advised Greene that a different method of testing would be necessary for product line testing.

Pressure/Helium Testing Summary

Later Greene requested volumetric pressure testing with helium. As a result, ES recommended and initiated a precision test using the Estabrook ™ Tank Testing System and a helium test using the MGD-2002™ Helium Detector on all tanks and piping at the above referenced location on September 22, 26, and 27, 2017.

The procedure for Helium testing European style suction piping is as follows:

1. Seal off all tank openings.
2. Remove union check valve at pump and confirm complete drain back of fuel in line.
3. Retrofit piping to allow for introduction of helium.
4. Drill monitor holes along piping run for helium sampling.
5. Establish helium pressure to begin testing. Approximately 50 pounds per square inch (psi).

After removing the union check valves beneath the dispenser/pumps and installing the testing equipment, helium was introduced to the product lines to begin testing. Product and positive pressure were immediately observed entering the tanks thus establishing communication between the tanks and lines.

As isolation of the tanks and lines was not possible without system modifications, it was decided that the tanks and lines would be tested simultaneously. The inclusion of the tanks during pressure/helium testing limited the testing pressures to approximately 2.0 psi, which in turn resulted in lower than typical helium concentration levels during leak confirmation and locating.

An array of monitoring holes was installed every two feet along the common piping run and in an approximately four to six-foot grid pattern over tank basin. This array was used to locate any leakage from each tank/line system. Once 2.0 psi was obtained, each tank was monitored for pressure loss and sampling began.

Below are the results for each tank system:

1. Super piping/tank had a steady loss in pressure and helium was detected along the piping run. Store side of fuel island. Location of detection was marked. Estabrook™ acoustic evaluation shows tank to be tight.
2. Regular piping/tanks had minimal pressure loss and only trace amounts of helium were detected. Helium detection was along piping run on store side of fuel island. Estabrook™ acoustic evaluation shows tank to be tight.
   Disclosure: Since only trace amounts of helium was detected, it is possible the helium detected during sampling of Regular piping/tanks was from the Super piping. Both piping runs together in same backfill. Also, the minimal pressure loss on the Regular tanks could have been a result of the larger ullage area (dry space) since the two regular tanks were manifolded together.
3. Plus piping/tank. The Plus product piping used a different type of check valve (inline) with an attached flex line which was unable to be removed due to its being underground. For the product line to be tested, a petroleum service contractor would need to dig down and remove the inline check valve. Once removed, line/tank testing could be performed. We performed the helium test of the tank only through the fill riser at the tank. No pressure loss or helium detected. Estabrook™ acoustic evaluation shows tank to be tight.
4. In Road Diesel piping/tank. No pressure loss or helium detected. Estabrook™ acoustic evaluation shows tank system to be tight.
5. Off Road Diesel piping/tank. No pressure loss. No helium detected. Estabrook™ acoustic evaluation shows tank system to be tight.

Once all testing was completed we discussed our findings with the store operator and agreed to place out of order bags on the Super product.

Environmental Solutions appreciates the opportunity to provide these services to you. If you have any questions, please feel free to contact us at (540) 312-8467.

Sincerely,

Rick Trogdon

Rick Trogdon

EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallons	TANK #	1
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Super		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

es Environmental SOLUTIONS

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EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	**Friday, September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**1**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Super**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

24.0 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.624**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.624**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.624**	+/-PSI (5)
Always add .5 PSI			+	**1.124**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.150**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**8:15 AM**	
Test Pressure Reached:	**8:30 AM**	**1.150**
Blower Turned Off:	**8:45 AM**	**1.150**
Test Began:	**9:00 AM**	**1.150**
Test Ended:	**9:15 AM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

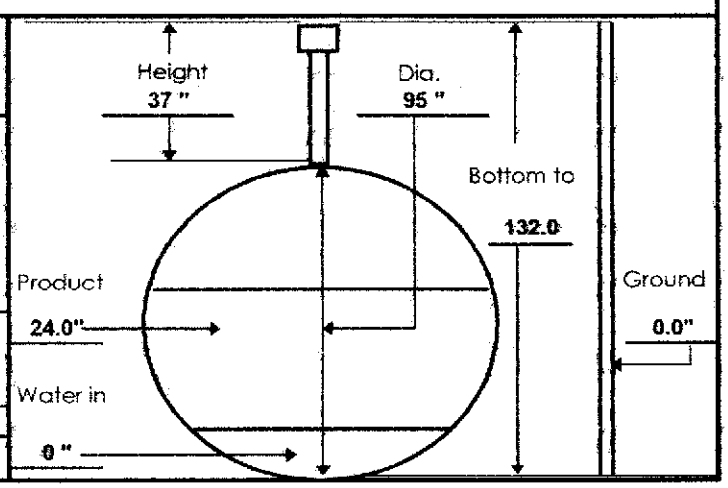
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallons	TANK #	2
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 2		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

es Environmental SOLUTIONS

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Cloverdale, Virginia 24077
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Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	Friday, September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	5000 Gallon	TANK #	2
PRODUCT VOL.		LOCATION	Chambliss burg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 2		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

16.0 (INCHES OF PRODUCT)	X	0.026 (WEIGHT OF PRODUCT)	=	0.416	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.416	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.416	+/-PSI (5)
Always add .5 PSI			+	0.916	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.000	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	9:30 AM	
Test Pressure Reached:	9:45 AM	1.000
Blower Turned Off:	10:00 AM	1.000
Test Began:	10:15 AM	1.000
Test Ended:	10:30 AM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

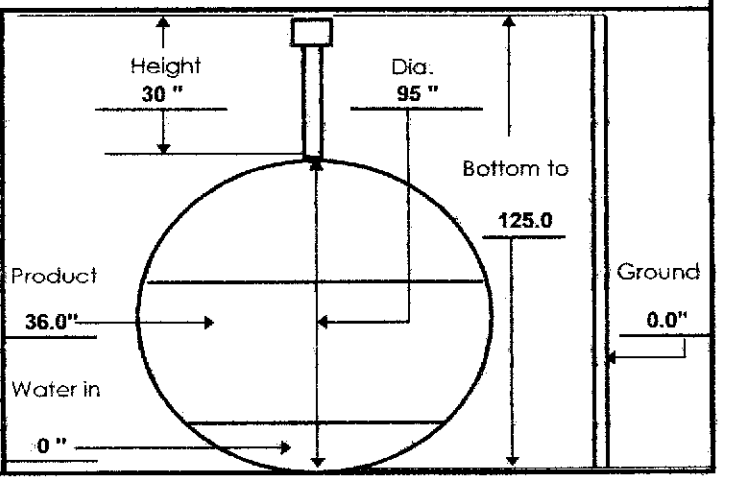
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	6000 Gallons	TANK #	3
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Regular 1		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charles Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

es Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	**Friday, September 22, 2017**	PBS # (NEW YORK)	
TOTAL TANK VOL.	**5000 Gallon**	TANK #	**3**
PRODUCT VOL.		LOCATION	**Chamblissburg Supply**
ULLAGE VOL.			**10625 Stewartsville Rd**
PRODUCT TYPE	**Regular 1**		**Vinton, VA 24179**

PRESSURE SENSOR CALCULATION

15.5 (INCHES OF PRODUCT)	X	**0.026** (WEIGHT OF PRODUCT)	=	**0.403**	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	**0.000**	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	**0.403**	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	**0.000**	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	**0.403**	+/-PSI (5)
Always add .5 PSI			+	**0.903**	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	**1.000**	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	**12:00 PM**	
Test Pressure Reached:	**12:15 PM**	**1.000**
Blower Turned Off:	**12:30 PM**	**1.000**
Test Began:	**12:45 PM**	**1.000**
Test Ended:	**1:00 PM**	

Depth of Groundwater Determined:

By: **Water Stick**

Where: **Beside Tanks**

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

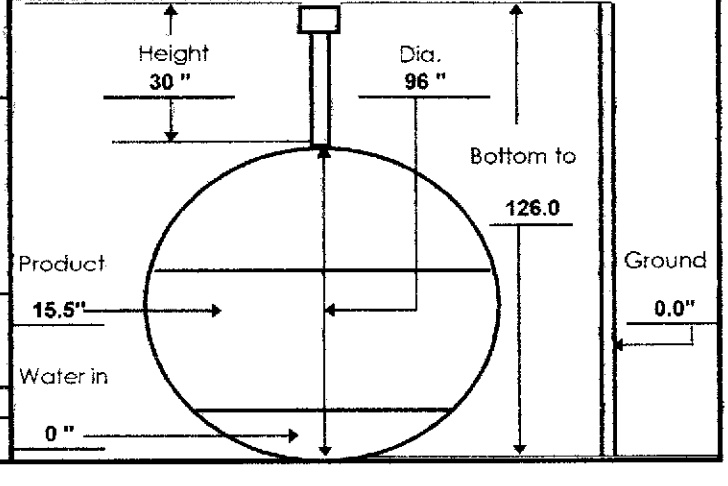
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	4000 Gallons	TANK #	4
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Plus		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

ULLAGE (DRY) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

BELOW PRODUCT LEVEL (WET) PORTION LEAK

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

es Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	Friday, September 22, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	4000 Gallon	TANK #	4
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Plus		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

21.0 (INCHES OF PRODUCT)	X	0.026 (WEIGHT OF PRODUCT)	=	0.546	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.546	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.546	+/-PSI (5)
Always add .5 PSI			+	1.046	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.100	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	1:30 PM	
Test Pressure Reached:	1:45 PM	1.100
Blower Turned Off:	2:00 PM	1.100
Test Began:	2:15 PM	1.100
Test Ended:	2:30 PM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

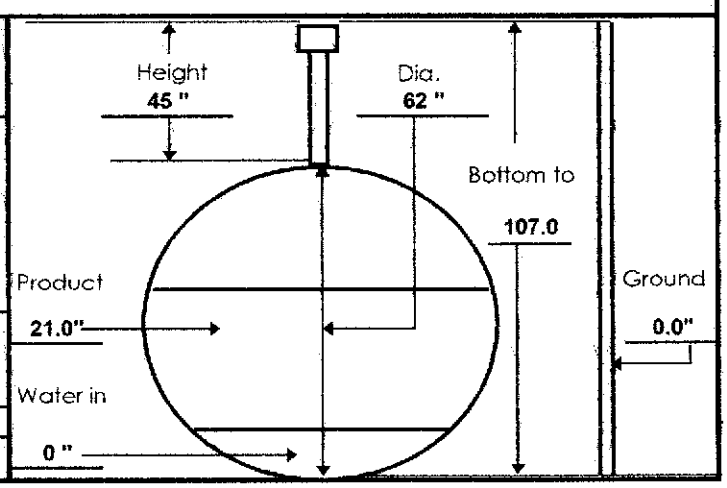
Average: _____

Calculation for Test Period:

_____ ÷ 3780 = _____, .05 x 60 = _____

Ave. Cal. "A" Factor Time of Test

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	September 26, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallons	TANK #	5
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Diesel		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION ____ WATER INTRUSION ____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

ES Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION
DATA SHEET

DATE	Tuesday, September 26, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallon	TANK #	5
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Diesel		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

27.0 (INCHES OF PRODUCT)	X	0.031 (WEIGHT OF PRODUCT)	=	0.837	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.837	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.837	+/-PSI (5)
Always add .5 PSI			+	1.337	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.400	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	10:00 AM	
Test Pressure Reached:	10:15 AM	1.400
Blower Turned Off:	10:30 AM	1.400
Test Began:	10:45 AM	1.400
Test Ended:	11:00 AM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

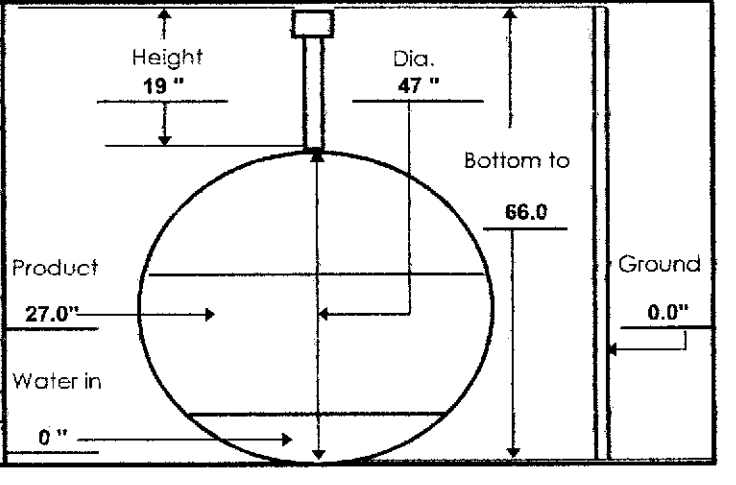
Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD Began: _____ Ended: _____



EZY 3 LOCATOR PLUS

FINAL REPORT

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

DATE	September 26, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallons	TANK #	6
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Kerosene		Vinton, VA 24179

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

X **TIGHT TANK**

THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **ULLAGE (DRY) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

_____ **BELOW PRODUCT LEVEL (WET) PORTION LEAK**

THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. EPA.

WATER SENSOR INDICATES:

(CHECK ONLY ONE)

NO WATER INTRUSION _____ WATER INTRUSION _____ NOT APPLICABLE X

Operator Information:

Print Name	Charles Trogdon	Certification #	139318
Sign Name	Charl Trogdon	Expiration Date	8/21/2018
Testing Firm	Environmental Solutions	Telephone #	540.312.8467
Address	PO Box 531		
	Cloverdale, VA 24077		

es Environmental SOLUTIONS

P.O. Box 531
Cloverdale, Virginia 24077
Phone: 540-312-8467
Fax: 540-400-8865

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

PRESSURE CALCULATION & WATER SENSOR CALIBRATION DATA SHEET

DATE	Tuesday, September 26, 2017	PBS # (NEW YORK)	
TOTAL TANK VOL.	1000 Gallon	TANK #	6
PRODUCT VOL.		LOCATION	Chamblissburg Supply
ULLAGE VOL.			10625 Stewartsville Rd
PRODUCT TYPE	Kerosene		Vinton, VA 24179

PRESSURE SENSOR CALCULATION

20.0 (INCHES OF PRODUCT)	X	0.029 (WEIGHT OF PRODUCT)	=	0.580	PSI (1)
0.0 (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.580	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.580	+/-PSI (5)
Always add .5 PSI			+	1.080	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	1.100	+/-PSI (7)

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	11:40 AM	
Test Pressure Reached:	11:55 AM	1.210
Blower Turned Off:	12:10 PM	1.100
Test Began:	12:25 PM	1.100
Test Ended:	12:40 PM	

Depth of Groundwater Determined:

By: Water Stick

Where: Beside Tanks

WATER SENSOR CALIBRATION

Added: _____ Cal #1 _____ Cal #2 _____ Cal #3

Average: _____

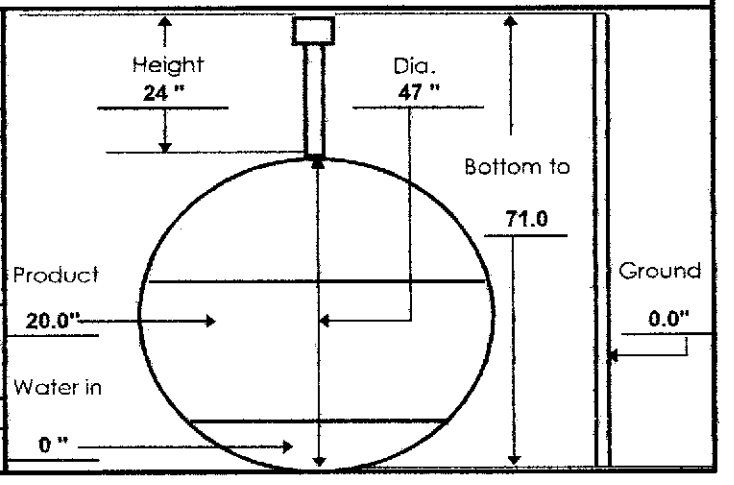
Calculation for Test Period:

_____ (Ave. Cal.) ÷ 3780 = _____ ("A" Factor), .05 x 60 = _____ (Time of Test)

WATER INTRUSION TEST PERIOD

Began: _____

Ended: _____



View of the helium being introduced into the plus line (attempted).

View of the flex piping on the plus line. The check valve is believed to be located at the other end of the flex line (buried).

View of helium being introduced into the super line.

View of the believed area of the line leak as indicated by helium testing. This location is directly in front of the super dispenser.

D233956

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. VA EXEMPT

Carrier No. 280618

Date 10/17/17

ENVIRONMENTAL OPTIONS INC

540-483-3920 VA0000122894

(Name of carrier) (SCAC)

Page 1 of 1

In Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in item 430, Sec. I.

TO:

Consignee RECO

Street 710 HOSPITAL STREET PO BOX 26287

City RICHMOND State VA Zip Code 23260

FROM:

Shipper GAS STATION C/O GREENE ENV

Street 10525 STEWARTSVILLE ROAD

City VINTON State VA Zip Code 24179

24 hr. Emergency Contact Tel. No. 540-483-3920

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
26		NON REGULATED PETROLEUM CONTAMINATED SOIL	16,000	P		

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
Where the applicable tariff provisions specify a limitation of the carrier's liability without a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360. Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

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

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER GAS STATION C/O GREENE ENV

PER

CARRIER ENVIRONMENTAL OPTIONS INC

PER Billy Nunn

DATE 10/17/17

1

Permanent post-office address of shipper

D233957

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. VA EXEMPT

Carrier No. 280618

Date 12/17/17

ENVIRONMENTAL OPTIONS INC

540-483-3820 VA0000122884

(Name of carrier) (SCAC)

Page 1 of 1

In Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. I.

TO:

Consignee RECO

Street 710 HOSPITAL STREET PO BOX 26287

City RICHMOND State VA Zip Code 23260

FROM:

Shipper RESIDENCE C/O GREENE ENV

Street 10580 STEWARTSVILLE ROAD

City VINTON State VA Zip Code 24179

24 hr. Emergency Contact Tel. No. 540-483-3820

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
3		NON REGULATED PETROLEUM CONTAMINATED SOIL	15,180			

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____." (2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172. Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) Item 360. Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor

TOTAL CHARGES $

FREIGHT CHARGES

FREIGHT PREPAID except when box is right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout the contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER RESIDENCE C/O GREENE ENV

PER

CARRIER ENVIRONMENTAL OPTIONS INC

PER

DATE 12/17/17

1

permanent post-office address of shipper.

D233958

STRAIGHT BILL OF LADING

ORIGINAL — NOT NEGOTIABLE

Shipper No. VA EXEMPT

Carrier No. 280618

Date 10/17/17

ENVIRONMENTAL OPTIONS INC

540-483-3920 VA0000122994

(Name of carrier) (SCAC)

Page 1 of 1

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1.

TO:

Consignee RECO

Street 710 HOSPITAL STREET PO BOX 26287

City RICHMOND State, VA Zip Code 23250

FROM:

Shipp RESIDENCE C/O GREENE ENV

Street 10555 STEWARTSVILLE ROAD

City VINTON State VA Zip Code 24179

24 hr. Emergency Contact Tel. No. 540-483-3920

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class UN or NA Number, Packing Group or UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
3		NON REGULATED PETROLEUM CONTAMINATED SOIL	1,500	P		

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."

(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.

(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(a) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES

FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER RESIDENCE C/O GREENE ENV

PER Terri R Honck

CARRIER ENVIRONMENTAL OPTIONS INC

PER [signature]

DATE 10/17/17

1

Permanent post-office address of shipper.

GREENE
ENVIRONMENTAL SERVICES LLC.
570 Redbud Hill Road, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596
www.greene-environmental.com

Ms. Debra Farkas
10590 Stewartsville Road
Vinton, Virginia 24179

September 12, 2017

Dear Ms. Farkas,

As previously discussed, Greene Environmental Services, LLC (Greene) has been contracted to perform the Virginia Department of Environmental Quality (VA DEQ) requested activities associated with a release of petroleum from the Chamblissburg Supply facility addressed as 10625 Stewartsville Road, Vinton, Virginia 24179. Your property addressed as 10590 Stewartsville Road falls within the work area and limited site characterization on this property has been requested. As a result, Greene seeks your cooperation in order to perform the activities requested by the VA DEQ. A summary of the activities to be performed on your property is provided below:

1. Install groundwater monitoring well(s).
2. Conduct routine groundwater monitoring and sampling activities as applicable.
3. Perform additional activities required to obtain closure of PC 2017-2298 as necessary.
4. Upon closure of Pollution Complaint (PC) 2017-2298, Greene will resurface the disturbed areas to match the surrounding surfacing.

Greene Environmental Services, LLC, in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor overseeing the activities listed above. These activities will be performed in a timely and professional manner. Greene will work with you to establish a convenient time/date for onsite activities. Greene and all sub-contractors will maintain all appropriate onsite safety measures.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381), email (aflora@greene-environmental.com), or mail (570 Redbud Hill Road, Rocky Mount, VA 24151).

Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-798-4206 (mobile) if you have any questions or if additional information is required.

Sincerely,

Marshall A. Flora
Project Manager

By my signature below, I represent that as an authorized representative of the owner of the 10590 Stewartsville Road property in Vinton, Virginia, I give Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Debra E Farkas
Signature

9/13/17
Date

Debra E Farkas
Printed Name & Title

GREENE
ENVIRONMENTAL SERVICES LLC
570 Redbud Hill Road, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596
www.greene-environmental.com

Mr. Shawn Houck
10555 Stewartsville Road
Vinton, Virginia 24179

September 13, 2017

Dear Mr. Houck,

As previously discussed, Greene Environmental Services, LLC (Greene) has been contracted to perform the Virginia Department of Environmental Quality (VA DEQ) requested activities associated with a release of petroleum from the Chamblissburg Supply facility addressed as 10625 Stewartsville Road, Vinton, Virginia 24179. Your property addressed as 10555 Stewartsville Road falls within the work area and limited site characterization on this property has been requested. As a result, Greene seeks your cooperation in order to perform the activities requested by the VA DEQ. A summary of the activities to be performed on your property is provided below:

1. Install groundwater monitoring well(s).
2. Conduct routine groundwater monitoring and sampling activities as applicable.
3. Perform additional activities required to obtain closure of PC 2017-2298 as necessary.
4. Upon closure of Pollution Complaint (PC) 2017-2298, Greene will resurface the disturbed areas to match the surrounding surfacing.

Greene Environmental Services, LLC, in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor overseeing the activities listed above. These activities will be performed in a timely and professional manner. Greene will work with you to establish a convenient time/date for onsite activities. Greene and all sub-contractors will maintain all appropriate onsite safety measures.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381), email (aflora@greene-environmental.com), or mail (570 Redbud Hill Road, Rocky Mount, VA 24151).

Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-798-4206 (mobile) if you have any questions or if additional information is required.

Sincerely,

Marshall A. Flora
Project Manager

By my signature below, I represent that as an authorized representative of the owner of the 10555 Stewartsville Road property in Vinton, Virginia, I give Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Tami R Houck
Signature

9/18/2017
Date

Tami R. Houck
Printed Name & Title

APPENDIX G

Fate & Transport Modeling Data

SCR BIOSCREEN-AT Modeling Input Data & Graphical Representations

BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Benzene

Data Input Instructions:

115 → 1. *Enter value directly....or*

↑ *or*

0.02 → 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

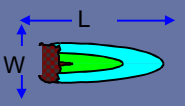
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	425	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

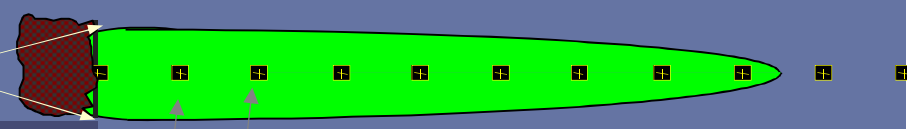


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	18.5

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	18.5	6.95	3.86	.295							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*170*	*213*	*255*	*298*	*340*	*383*	*425*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED BENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

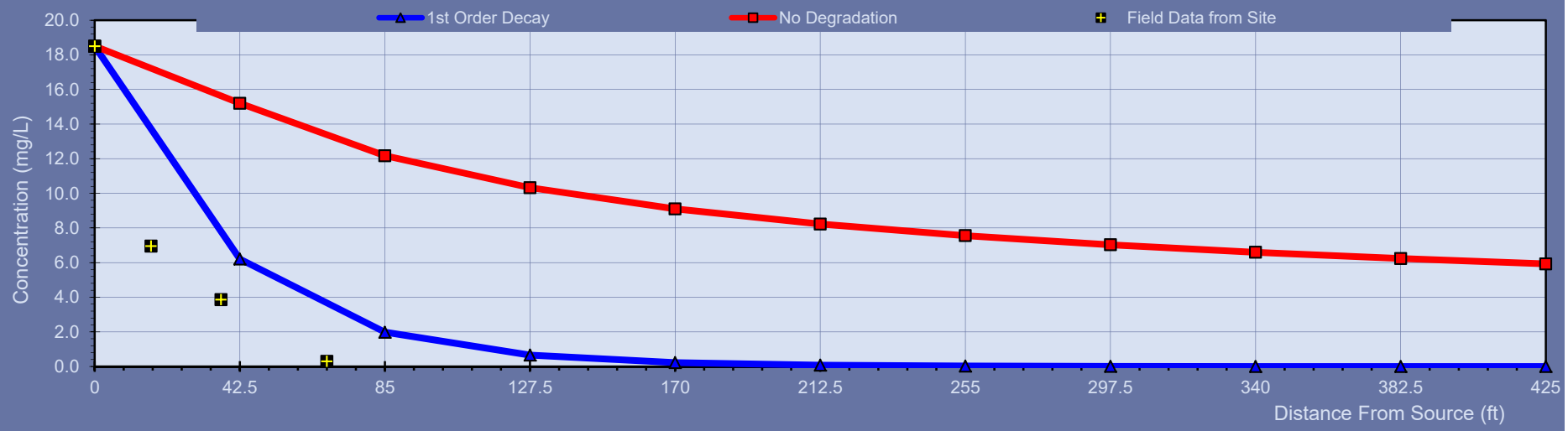
Distance from Source (ft)

	0	42.5	85	127.5	170	212.5	255	297.5	340	382.5	425
No Degradation	18.500	15.199	12.169	10.325	9.103	8.225	7.557	7.028	6.596	6.234	5.926
1st Order Decay	18.500	6.209	1.981	0.659	0.226	0.079	0.028	0.010	0.004	0.001	0.000
Field Data from Site	18.500	6.950	3.860	0.295							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Toluene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

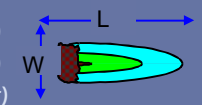
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.2E+0	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.58	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	179	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

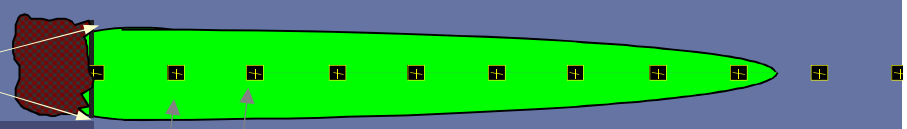


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	53.7

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	53.7	29.9	2.49	.711							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*72*	*90*	*107*	*125*	*143*	*161*	*179*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOLUENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

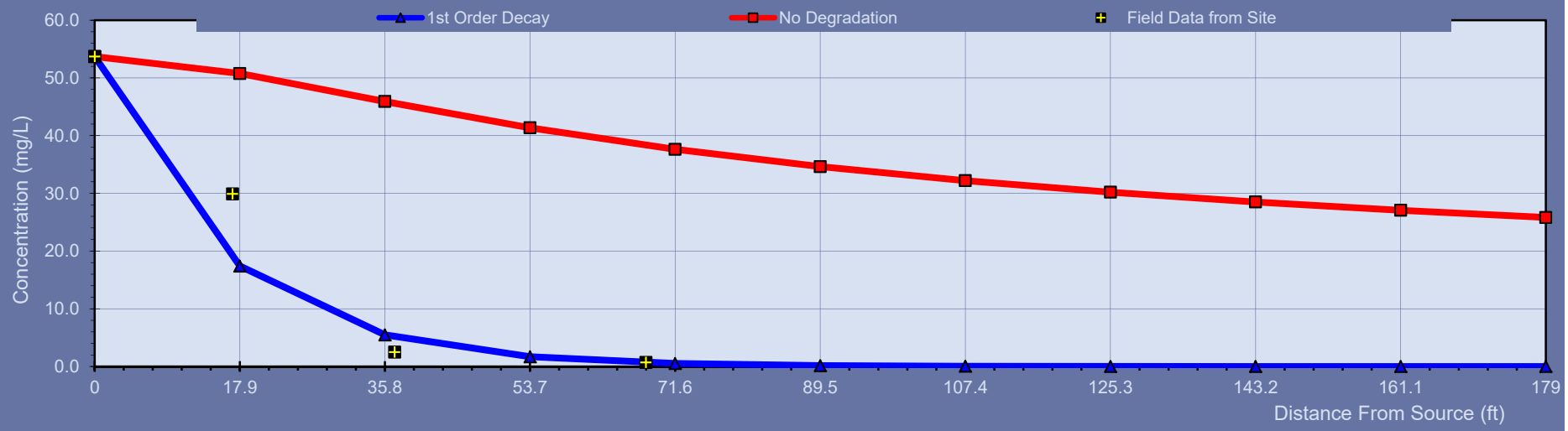
Distance from Source (ft)

	0	17.9	35.8	53.7	71.6	89.5	107.4	125.3	143.2	161.1	179
No Degradation	53.700	50.758	45.914	41.353	37.624	34.631	32.202	30.194	28.507	27.065	25.817
1st Order Decay	53.700	17.406	5.475	1.694	0.523	0.162	0.050	0.016	0.005	0.002	0.000
Field Data from Site	53.700	29.900	2.490	0.711							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Ethylbenzene

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

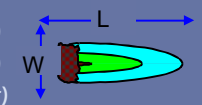
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.1E+0	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	0.62	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	145	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

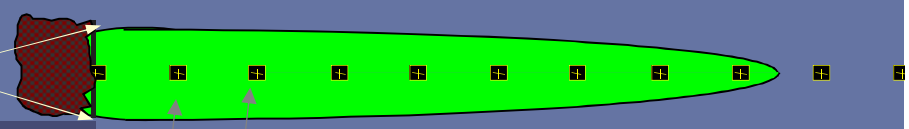


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	3.88

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	3.88		.441	.15							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*58*	*73*	*87*	*102*	*116*	*131*	*145*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED ETHYLBENZENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

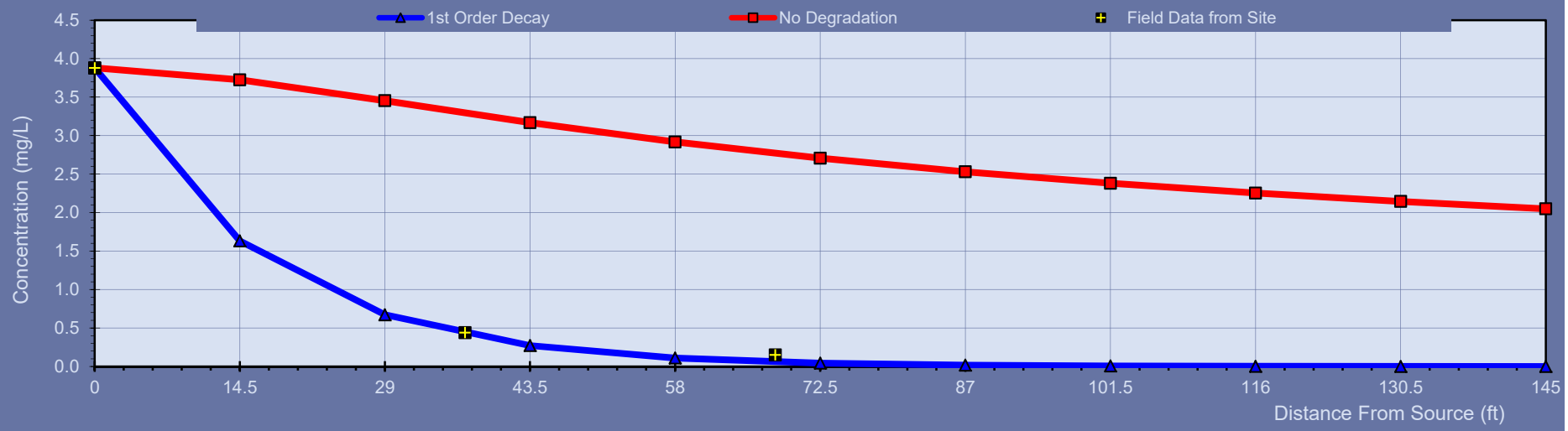
Distance from Source (ft)

	0	14.5	29	43.5	58	72.5	87	101.5	116	130.5	145
No Degradation	3.880	3.725	3.454	3.169	2.918	2.706	2.530	2.381	2.254	2.144	2.048
1st Order Decay	3.880	1.632	0.672	0.273	0.110	0.044	0.018	0.007	0.003	0.001	0.000
Field Data from Site	3.880		0.441	0.150							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Total Xylenes

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

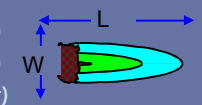
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.9E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	1.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	244	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

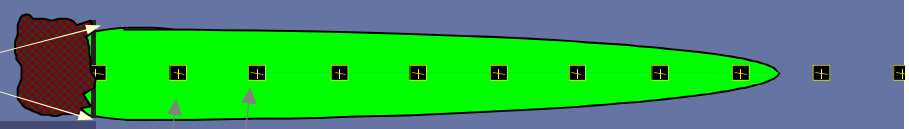


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	18.4

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	18.4		6.47	.455							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*98*	*122*	*146*	*171*	*195*	*220*	*244*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED TOTAL XYLENES CONCENTRATIONS IN PLUME (mg/L at Z=0)

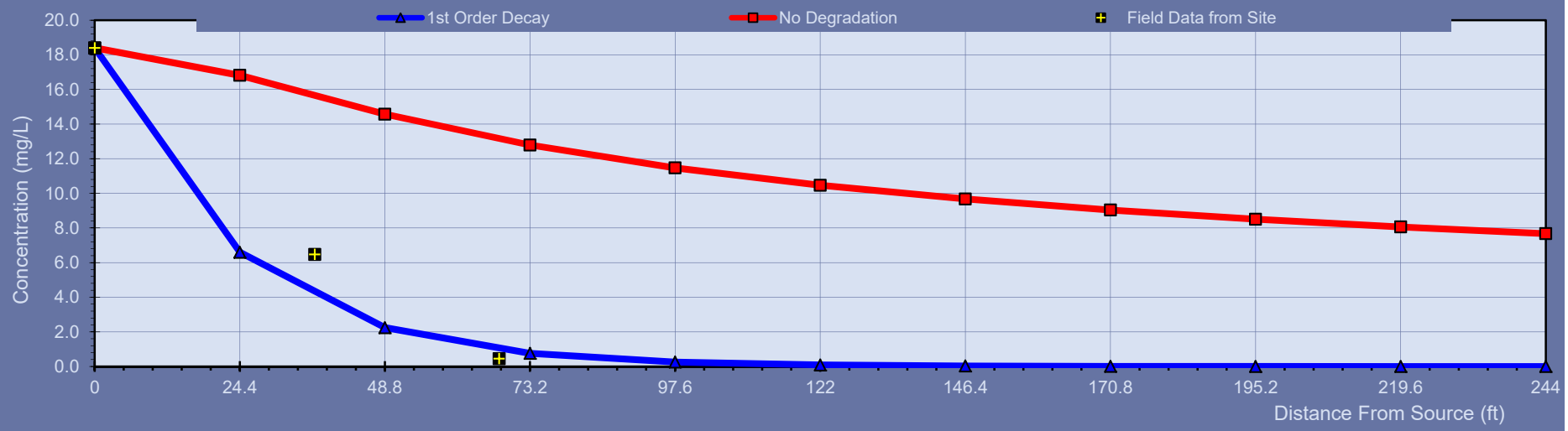
Distance from Source (ft)

	0	24.4	48.8	73.2	97.6	122	146.4	170.8	195.2	219.6	244
No Degradation	18.400	16.812	14.570	12.790	11.469	10.464	9.674	9.035	8.505	8.057	7.673
1st Order Decay	18.400	6.597	2.245	0.759	0.259	0.090	0.031	0.011	0.004	0.001	0.000
Field Data from Site	18.400		6.470	0.455							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - MTBE

Data Input Instructions:

115 → 1. *Enter value directly....or*

↑ *or*

0.02 → 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

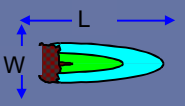
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	445	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

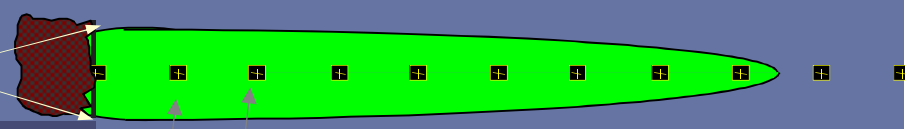


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	29.4

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	29.4										
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*178*	*223*	*267*	*312*	*356*	*401*	*445*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED MTBE CONCENTRATIONS IN PLUME (mg/L at Z=0)

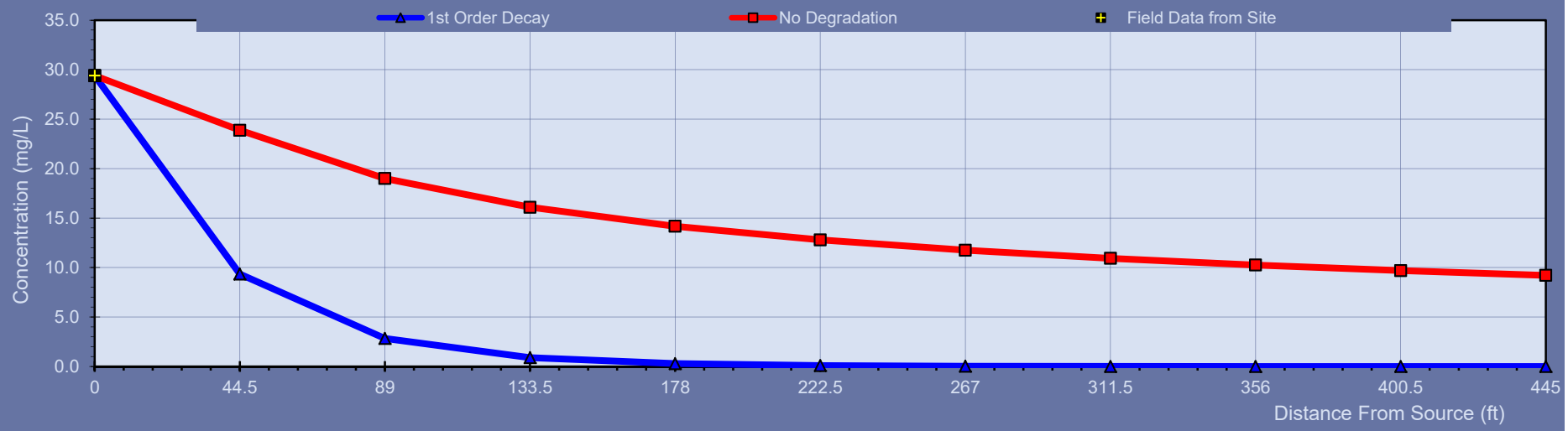
Distance from Source (ft)

	0	44.5	89	133.5	178	222.5	267	311.5	356	400.5	445
No Degradation	29.400	23.871	19.001	16.089	14.170	12.796	11.754	10.928	10.254	9.691	9.211
1st Order Decay	29.400	9.346	2.834	0.899	0.295	0.099	0.034	0.012	0.004	0.001	0.000
Field Data from Site	29.400										

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - Naphthalene

Data Input Instructions:

115 → 1. Enter value directly....or

↑ or

0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

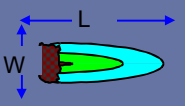
Retardation Factor*	*R*	1.2	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	9.8E-1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.71	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	146	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

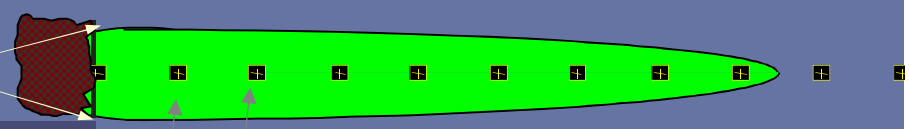


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	1.73

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	1.73		1.1	.078							
Dist. from Source (ft)	0	17	37	68	58	73	88	102	117	131	146

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

Restore Formulas for Vs,

DISSOLVED NAPHTHALENE CONCENTRATIONS IN PLUME (mg/L at Z=0)

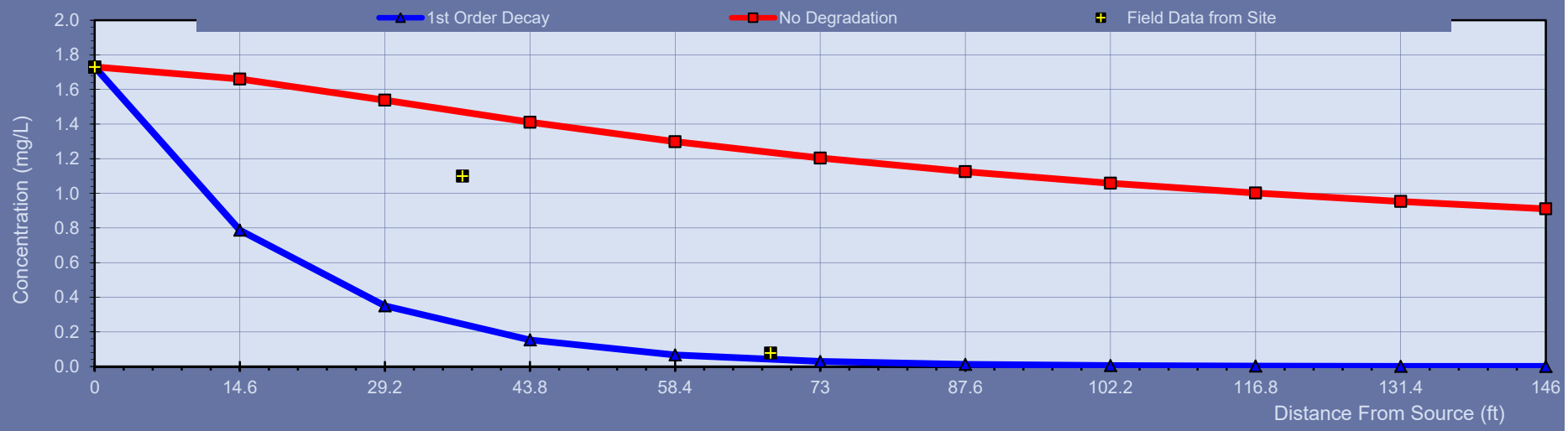
Distance from Source (ft)

	0	14.6	29.2	43.8	58.4	73	87.6	102.2	116.8	131.4	146
No Degradation	1.730	1.660	1.538	1.410	1.298	1.204	1.125	1.059	1.002	0.953	0.911
1st Order Decay	1.730	0.787	0.350	0.154	0.067	0.029	0.013	0.006	0.002	0.001	0.000
Field Data from Site	1.730		1.100	0.078							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**



BIOSCREEN-AT Natural Attenuation Decision Support System

S.S. Papadopulos & Associates, Inc.

Version 1.45

Chamblissburg Supply

CSVI1002 - BTEX, MTBE, NAP

Data Input Instructions:

115 → *1. Enter value directly....or*

↑ *or*

0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*

20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	15.669	*(ft/yr)*
or		↑ *or*	
Hydraulic Conductivity	*K*	3.2E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.014	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	7.061	*(ft)*
Transverse Dispersivity*	*alpha y*	0.706	*(ft)*
Vertical Dispersivity*	*alpha z*	0.000	*(ft)*
or		↑ *or*	
Estimated Plume Length	*Lp*	100	*(ft)*

3. ADSORPTION

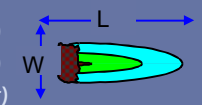
Retardation Factor*	*R*	1.2	*(-)*
or		↑ *or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	38	*(L/kg)*
FractionOrganicCarbon	*foc*	8.0E-4	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.5E-1	*(per yr)*
or		↑ *or*	
Solute Half-Life	*t-half*	2.00	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	5.78	*(mg/L)*
Delta Nitrate*	*NO3*	17	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	11.3	*(mg/L)*
Delta Sulfate*	*SO4*	100	*(mg/L)*
Observed Methane*	*CH4*	0.414	*(mg/L)*

5. GENERAL

Modeled Area Length*	507	*(ft)*
Modeled Area Width*	85	*(ft)*
Simulation Time*	100.00	*(yr)*

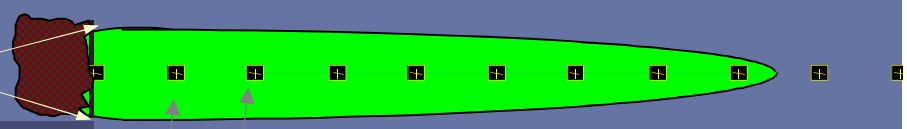


6. SOURCE DATA

Source Thickness	10	*(ft)*

Source	
Width (ft)	Conc.(mg/L)
20	125.51

☐ Exponentialy Decaying Conc.



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	125.51	72.74	21.87	5.387							
Dist. from Source (ft)	*0*	*17*	*37*	*68*	*203*	*254*	*304*	*355*	*406*	*456*	*507*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN | **RUN**

View Centerline | **View Plume**

View BIOSCREEN

Recalculate This Sheet

Paste Example Dataset

Paste Dataset from BIOSCREEN

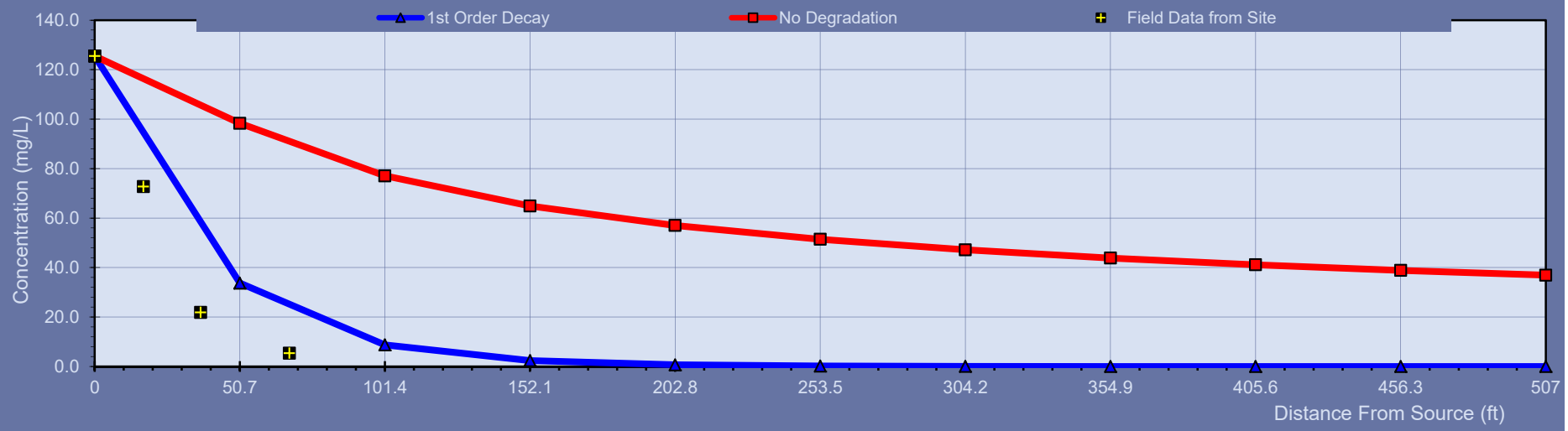
Restore Formulas for Vs,

DISSOLVED TOTAL BTEX, MTBE, NAP CONCENTRATIONS IN PLUME (mg/L at Z=0)

Distance from Source (ft)

	0	50.7	101.4	152.1	202.8	253.5	304.2	354.9	405.6	456.3	507
No Degradation	125.510	98.308	77.042	64.889	57.010	51.412	47.181	43.842	41.121	38.849	36.915
1st Order Decay	125.510	33.708	8.748	2.399	0.682	0.199	0.059	0.018	0.005	0.002	0.000
Field Data from Site	125.510	72.740	21.870	5.387							

# of TimeSteps **20**

Displayed Time=100 years

Return to Input **View Plume**