NRG Potomac River, LLC
8301 Professional Place
Suite 230
Landover, MD 20785

July 29, 2016

Via email delivery only

Mr. Alex Wardle
Virginia Department of Environmental Quality (DEQ)
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Re: Second Quarter 2016 CAP Implementation Monitoring Report
NRG Potomac River Generating Station
1400 North Royal Street
Alexandria, VA 22314
PC#2013-3154

Dear Mr. Wardle:

NRG Potomac River LLC (PRGS) is pleased to submit the Second Quarter 2016 CAP Implementation Monitoring Report (CMR).

The following activities were conducted during the Second Quarter of 2016:

- Monthly liquid level gauging and manual light non-aqueous phase liquid (LNAPL) bailing of select site monitoring wells;
- Post-system startup groundwater monitoring of select wells on April 21, 2016;
- Comprehensive gauging of all accessible site monitoring wells on May 23, 2016;
- Biostimulation headspace vapor monitoring of select site monitoring wells to measure the presence of volatile organic compounds (VOCs), oxygen, carbon dioxide, and methane on May 23, 2016;
- Routine quarterly sampling of groundwater from select site monitoring wells for petroleum hydrocarbons and from select wells for biostimulation parameters, in accordance with the groundwater sampling plan, on May 23-25, 2016;
- CAP implementation remedial system installation, start-up, operation, and reporting activities:
    - Operation and maintenance of the remediation system from April to June 2016;
    - Installation, connection, and start-up of seven additional biosparge wells completed in April 2016;
    - Tree planting in conjunction with NPS Special Use Permit requirements completed in May 2016;

- Monthly Self-Monitoring Report (SMR) submittals to AlexRenew;

If you have any questions or require additional information please contact me at (301)843-4439 or by email at Mark.Nitz@nrg.com. For any technical questions, if you prefer, you can contact our consultants at GES directly.

Sincerely,

Mark G. Nitz, P.E.
Environmental Specialist, NRG

Cc: J. Rodriguez, DOEE; K. Tran, City Of Alexandria, VA; P. McCallum, NPS

Groundwater
& Environmental Services, Inc.

2ND QUARTER CAP IMPLEMENTATION MONITORING REPORT

JULY 2016

POTOMAC RIVER GENERATING STATION

1400 NORTH ROYAL STREET
ALEXANDRIA, VA

PC# 2013-3154

PREPARED FOR:
MARK G. NITZ, P.E.
NRG POTOMAC RIVER LLC
25100 CHALK POINT ROAD
AQUASCO, MD 20608

SUBMITTED TO:
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
NORTHERN REGIONAL OFFICE
13901 CROWN COURT
WOODBRIDGE, VA 22193-1453

PREPARED BY:
GROUNDWATER & ENVIRONMENTAL SERVICES, INC.
1350 BLAIR DRIVE, SUITE A
ODENTON, MD 21113

JULY 29, 2016

SITE NAME:	Potomac River Generating Station
SITE LOCATION:	1400 North Royal Street, Alexandria, VA
VDEQ PC#	2013-3154
DATE OF REPORT:	July 29, 2016
LAND USE CLASSIFICATION:	Industrial
CURRENT PROPERTY OWNER:	NRG Potomac River LLC 8301 Professional Place, Suite 250 Landover, MD 20785
CONSULTANT:	Groundwater & Environmental Services, Inc. 1350 Blair Drive, Suite A Odenton, MD 21113 (800) 220-3606
RELEASE INFORMATION:	Release from two former 25,000 gallon Number 2 fuel oil underground storage tanks

Prepared by:

Lindsay Keeney
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Reviewed by:

Dan Drennan, PE
Project Engineer

A. Ashley Bell
Senior Project Manager

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1.0 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES) has prepared this 2nd Quarter 2016 CAP Implementation Monitoring Report (CMR) on behalf of NRG Potomac River LLC (NRG), documenting environmental monitoring and corrective action activities performed at the Potomac River Generating Station (PRGS), located at 1400 North Royal Street, Alexandria, VA (the site). Site activities were performed to address a subsurface petroleum release regulated by the Virginia Department of Environmental Quality (VDEQ) Northern Regional Office (NRO) under Pollution Complaint (PC) #2013-3154. The site is the location of a decommissioned power generating facility. A Site Location Map is provided as **Figure 1**, a Site Layout Map, depicting pertinent features of the site and adjacent areas, is provided as **Figure 2**, and a Site Map is provided as **Figure 3**.

Specifically, this summary report documents the following activities conducted during the 2nd Quarter 2016:

- Monthly liquid level gauging and manual LNAPL bailing of select site groundwater wells to measure elevations of groundwater and light non-aqueous phase liquid (LNAPL) hydrocarbons, if present;
- Installation and start-up of seven new deep biosparge wells from April 4 through May 3rd, 2016, along the eastern Site boundary and off site along the adjacent National Park Service (NPS) Mt. Vernon Trail;
- Post-system start-up sampling of select groundwater wells on April 21, 2016;
- Routine quarterly groundwater sampling on May 23 – 25, 2016 from select site groundwater wells for total petroleum hydrocarbons – diesel range organics (TPH-DRO) and from select wells for biostimulation parameters;
- Comprehensive gauging of all accessible site groundwater wells on May 23, 2016;
- Biostimulation headspace vapor measurements recorded on May 23, 2016 of select site groundwater wells to monitor the presence of volatile organic compounds (VOCs), oxygen, carbon dioxide, and methane;
- Down-well water quality measurements recorded on May 23, 2016 of select site groundwater wells to monitor dissolved oxygen, pH, temperature, oxygen reduction potential and conductivity; and
- Weekly operations and maintenance (O&M) events in April and semi-monthly events during May and June, including once a month gauging of pumping wells and groundwater and vapor sampling of the system.
- Monthly submittals of Self-Monitoring Reports (SMRs) to Alexandria Renewal Enterprises (AlexRenew).

1.1 SITE HISTORY

The site was developed as a power generating facility in the 1940s. The first generating unit was constructed by 1949, and the last of the five units was brought online in 1954. The facility used Number 2 (No. 2) fuel oil to preheat its generating unit boilers and coal as its primary fuel to generate electricity. The No. 2 fuel oil was stored in two adjoining 25,000-gallon underground storage tanks (USTs) centrally located within the power plant complex, as shown on the Site Map provided as **Figure 3**. On October 1, 2012, the coal power plant ceased operation.

PC #2013-3154 was opened by the VDEQ following the detection of petroleum hydrocarbons during closure activities associated with the two 25,000-gallon fuel oil USTs. The VDEQ requested that a Site Characterization Report (SCR) be prepared to characterize the extent of contamination at the site. URS Corporation (URS) submitted a Site Conceptual Model (SCM) on June 11, 2013, which included a discussion of the initial detection of petroleum hydrocarbons during the closures of the two No. 2 fuel oil USTs, as well as descriptions of the various subsurface utilities in the vicinity of the USTs.

The VDEQ subsequently requested the submittal of a Site Characterization Report Addendum (SCRA), as stated in a directive letter dated July 10, 2013. This SCRA was submitted on February 14, 2014, by URS and described the activities associated with a subsurface characterization of the site using laser-induced fluorescence (LIF), the advancement of soil borings for soil sampling at the site, and the installation of fourteen monitoring wells. The site history, recent field activities, laboratory analytical results, a preliminary risk assessment, and an assessment of remedial options were also discussed in the SCRA.

After review of the SCRA, on March 4, 2014, the VDEQ requested that a Corrective Action Plan (CAP) be developed for the site. GES and Geosyntec Consultants (Geosyntec), on September 5, 2014, submitted Part I of a CAP, (CAP-I) summarizing the site characterization data and evaluation; presenting an updated SCM based on this data; and providing a presentation, assessment, and evaluation of the viable remedial technologies that can be employed, consistent with the CAP requirements. Subsequently, Part II of the CAP (CAP-II) was submitted to the VDEQ on December 23, 2014. The CAP was approved by the VDEQ on March 17, 2015, and was assigned CAP tracking number 513. The CAP approval letter required quarterly groundwater monitoring and installation of a remedial system. The current remediation system and piping is presented in **Figure 4** – **Remediation System Layout Map**.

1.2 SURROUNDING PROPERTIES

The surrounding properties in the immediate vicinity of the site are primarily residential and commercial, with some buildings used as office space. To the north, south, and west, the site is bordered by a mixture of condominium and office buildings. To the east, the site is bordered by the NPS Mt. Vernon Trail, beyond which lies the Potomac River.

2.0 SITE CHARACTERIZATION AND MONITORING ACTIVITIES

The following site characterization and monitoring activities were conducted during the 2nd Quarter 2016:

- April, May, and June 2016:
  - Monthly gauging of select groundwater wells. Hand bailing of LNAPL from select non-pumping groundwater wells.
- April 21, 2016:
  - Post-system startup sampling of select groundwater wells.
- May 23, 2016:
  - Site-wide gauging and biostimulation headspace vapor monitoring and collection of down-well field parameters of select groundwater wells.
- May 23 – 25, 2016:
  - Gauging and groundwater sampling of all accessible site groundwater wells containing sufficient water for sampling and not containing a measureable thickness of LNAPL.

2.1 WELL GAUGING AND LNAPL BAILING

An oil-water interface probe capable of measuring groundwater and LNAPL to 0.01 feet was used to gauge the site groundwater wells. During the 2nd Quarter 2016, select groundwater wells were gauged during a post-system startup groundwater monitoring event on April 21, 2016 and all accessible site groundwater wells were gauged during a comprehensive gauging event on May 23, 2016. Select groundwater wells that historically exhibited measureable LNAPL or elevated dissolved phase hydrocarbon concentrations were also gauged on a monthly basis. Gauging events conducted during the 2nd Quarter 2016 are summarized below:

- Monthly gauging of select wells:
  - April 21, 2016
  - May 5, 2016
  - June 21, 2016
- Gauging of select wells:
  - April 21, 2016
- Site-wide gauging of all accessible wells:
  - May 23, 2016

A Well Construction Table is included as **Table 1**, and the 2nd Quarter 2016 Groundwater Gauging Data Summary is presented as **Table 2**. LNAPL was detected in groundwater wells MW-01S, MW/RW-10S, MW-14, and MW-25S during the 2nd Quarter 2016, with a maximum thickness of 0.83 feet measured in MW-14 on May 5, 2016. During the April and June gauging events, trace amounts of LNAPL were bailed

from MW-25S; and in MW-14 approximately 0.8 gallons of LNAPL were bailed in April and traces were bailed in June. No LNAPL was bailed from any wells connected to the remediation system.

Groundwater depths ranged from 0.91 feet below ground surface (bgs) in MW-105 to 33.31 feet bgs in MW/RW-51 during the 2nd Quarter 2016, which is consistent with historical data from the site. Site-wide gauging was conducted on May 23, 2016, in accordance with the tidal cycle of the Potomac River. High tide occurred at 9:48am on May 23, 2016. Site wells were gauged as quickly as possible by multiple personnel, and gauging was conducted bracketing the river's high tide. This approach was used to minimize the impact of tidal influence on groundwater elevation data. Monitoring well MW-16S was dry during the May 23, 2016 comprehensive gauging event.

Two groundwater contours maps representing shallow zone and deep zone data, respectively, from the April 21, 2016 post-system start up gauging and sampling event are presented as **Figure 5** and **Figure 6.** Two groundwater contour maps representing shallow zone data and deep zone data, respectively, from the May 23, 2016 comprehensive gauging event are presented as **Figure 7** and **Figure 8**.

The shallow zone groundwater contour map for the April monitoring event indicates that groundwater flow is predominantly to the east with variable flow to the northeast. The deep zone groundwater contour map for April indicates that groundwater flow is predominantly radial towards recovery wells RW-25 and RW-51. The hydraulic gradient at the site was calculated to be approximately 0.09 feet per foot in the shallow zone and to range from approximately 0.07 to 0.08 feet per foot in the deep zone during the April monitoring event.

The shallow zone groundwater contour map for the May monitoring event indicates that groundwater flow is predominantly radial towards MW-08S, and RW-30S in the central and northern portions of the Site and to the southwest in the southern portion of the Site. The deep zone groundwater contour map for May indicates that groundwater flow is predominantly radial towards recovery wells RW-05, RW-25 and RW-51. The hydraulic gradient at the site was calculated to range from approximately 0.05 to 0.06 feet per foot in the shallow zone and to be approximately 0.10 feet per foot in the deep zone during the May monitoring event.

2.2 HEADSPACE VAPOR MONITORING

Monitoring well biostimulation vapor headspace readings were collected at select groundwater wells during the May 23, 2016 comprehensive gauging event using a photoionization detector (PID) and a GEM 2000 landfill gas meter. The PID was fitted with a 10.6 electron volt bulb and was calibrated using a factory-supplied calibration gas standard (100 parts per million [ppm] isobutylene) prior to use.

To obtain reproducible and stable readings, a vapor monitoring well cap was inserted securely into the well, and the PID and landfill gas meter were used to record VOC, oxygen, carbon dioxide, and methane concentrations. This arrangement allows for the withdrawal of air from the well through the PID and landfill gas meter pumps while minimizing the exchange of ambient air. The PID and landfill gas meter responses were recorded in the field book after the stabilization period.

Detailed PID and landfill gas meter response data are presented in **Table 3**.

2.3 GROUNDWATER SAMPLING

On April 21, 2016, groundwater samples were collected from 16 groundwater monitoring/recovery wells (MW-01S, MW-08S, MW-25/RW-25, MW-27, MW-31/RW-31, MW-51S, MW-51/RW-51, MW-72/RW-72, MW-106, RW-1, RW-05S, RW-28S, RW-30S, RW-118S, RW-119S, and RW-123S) and 1 temporary well (TW-06) using disposable bailers. Samples could not be collected from wells MW-10S/RW-10S, MW-14, or MW-25S due to the presence of measurable thicknesses of LNAPL. Recovery wells RW-30S and RW-117S did not contain sufficient water for sampling. April's sampling plan was modified for post system start up sampling requirements, which are summarized in **Table 4**.

On May 23 – 25, 2016, groundwater samples were collected from 22 groundwater monitoring/recovery wells (MW-08S, MW/RW-05, MW/RW-10S, MW-14, MW/RW-25, MW-27, MW/RW-31, MW-51S, MW/RW-51, MW/RW-72S, MW/RW-72, MW-106, MW-108, MW-121, MW-122, MW/RW-123S, RW-1, RW-05S, RW-28S, RW-116S, RW-118S, and RW-119S) using disposable bailers or dedicated sampling ports and 6 temporary wells (TW-02, TW-03, TW-04, TW-06, TW-07, and TW-14) using a peristaltic pump and dedicated polyethylene tubing. Temporary well TW-05 was not sampled due to air entering the well from newly installed biosparge wells and causing high turbidity. Monitoring wells MW-109S, MW-109, MW-110S, MW-110, MW-111, MW-112S, MW-112, MW-113, and MW-114 are annually sampled and will be sampled next during the 4th Quarter 2016. Monitoring/recovery wells MW-01S, MW-14, MW-25S, and RW-25S were not sampled during the 2nd Quarter 2016 sampling event, as the wells contained measurable thicknesses of LNAPL. Monitoring wells MW-16S and RW-30S was not sampled during the 2nd Quarter 2016 sampling event since the wells were dry. May's quarterly monitoring and sampling plan is summarized in **Table 5**.

Each monitoring well was gauged prior to purging and sampling, and gauging data is presented in **Table 2**. Prior to the collection of groundwater samples, a minimum of three well volumes of water was purged from each monitoring well using purge bailers. System wells with pumps were sampled using sampling ports at the well heads. Temporary wells were sampled in accordance with low-flow sampling protocols using a peristaltic pump and dedicated polyethylene tubing, with the exception of the sample collected from TW-06 during the April monitoring event, which was collected using a micro-bailer. Purge bailers were decontaminated prior to purging each well. Select wells containing minimal volumes of water were not purged, and grab samples were immediately collected. Purge water was containerized in 55-gallon drums and stored onsite for proper disposal. On May 19, 2016, Triumvirate pumped out the drums and transported the purge water to their facility in Baltimore, MD. Waste documentation can be found in **Attachment A**. Groundwater samples were collected directly in laboratory provided bottleware, packaged on ice in coolers, and transported under proper chain of custody to Eurofins Lancaster Labs (Eurofins). Samples were requested to be analyzed for the following:

- Standard quarterly parameters
  - Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO)
- Biostimulation parameters
  - Alkalinity
  - Nitrate (NO_3^{1-})
  - Nitrite (NO_2^{1-})

- Manganese (Mn^{2+})
- Ferrous Iron (Fe^{2+})
- Sulfate (SO_4^{2-})
- Methane

TPH-DRO analytical results are presented in the Historical Groundwater Analytical Data Summary included as **Table 6** and discussed further in **Section 2.4**. The analytical results from sampling biostimulation parameters are presented in the Historical Groundwater Biostimulation Analytical Data Summary provided as **Table 7**.

The complete laboratory reports and chain of custody documentation for the groundwater sampling events conducted in April and May 2016 are presented as **Attachment B** and **Attachment C**, respectively**.**

2.4 GROUNDWATER ANALYTICAL FINDINGS

During the 2nd Quarter 2016, 17 wells were sampled for TPH-DRO during the post-system startup groundwater monitoring event in April and 26 wells were sampled for TPH-DRO during the quarterly groundwater monitoring event in May. Benzene, toluene, ethylbenzene, total xylenes, methyl tert-butyl ether (MTBE), tert-butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, naphthalene, and TPH-GRO data are also included in the Historical Groundwater Analytical Data Table (**Table 6)** for reference for TW-02 through TW-07 and TW-14, which were sampled by Geosyntec in May in accordance with requirements from the District of Columbia Department of Energy & Environment. Those results will not be discussed here. Two TPH-DRO contour maps representing shallow zone data and deep zone data, respectively, from April's sampling event are presented as **Figure 9** and **Figure 10**. Two TPH-DRO contour maps representing shallow zone data and deep zone data, respectively, from May's quarterly sampling event are presented as **Figure 11** and **Figure 12**. The results from the collection and analysis of groundwater samples from wells sampled during the 2nd Quarter 2016 are presented below:

- TPH-DRO was detected in 17 of the 17 groundwater wells sampled during the post-system start-up groundwater monitoring event in April, with a maximum concentration of 150,000 micrograms per liter (µg/L) in recovery well RW-123S.
- TPH-DRO was detected in 25 of the 26 groundwater wells sampled during the quarterly monitoring event in May, with a maximum concentration of 270,000 µg/L in monitoring/recovery well MW-10S/RW-10S;

Biostimulation data and field parameters were collected from select wells within the shallow and deep zone aquifers in order to evaluate the natural attenuation potential of the aquifers and to determine the dominant terminal electron accepting process. A Historical Groundwater Biostimulation Analytical Data Summary is presented as **Table 7,** and a Historical Groundwater Field Parameters Data Summary is presented as **Table 3.**

The following chart details the anticipated changes in groundwater chemistry in order of reaction preference during various stages of biodegradation from aerobic to highly anaerobic conditions. Increased concentrations of alkalinity, nitrite, dissolved manganese, ferrous iron, and methane and decreased

concentrations of oxidation reduction potential (ORP), dissolved oxygen (DO), nitrate, and sulfate are indicators of anaerobic activity.

Time →

← Distance from Source

	Aerobic Respiration	Nitrate Reduction	Manganese Reduction	Ferric Iron Reduction	Sulfate Reduction	Methan-ogenesis
	Aerobic	Anaerobic				
Electron Acceptor	O_2	NO_3^-	Mn^{4+}	Fe^{3+} (solid)	SO_4^{2-}	CO_2
Metabolic By-Product	CO_2	N_2, CO_2	Mn^{2+}	Fe^{2+} (dissolved)	H_2S	CH_4 (methane)
Expected Relationship with High BTEX	$O_2 \downarrow$	$NO_3^- \downarrow$	$Mn^{2+} \uparrow$	$Fe^{2+} \uparrow$	$SO_4^{2-} \downarrow$	$CH_4 \uparrow$

The observed concentrations of DO, ORP, carbonate alkalinity, nitrate nitrogen, nitrite nitrogen, manganese, ferrous iron, sulfate as SO_4^{2-}, and methane generally provide supporting evidence that due to system start-up in March 2016, site conditions within the dissolved hydrocarbon plume have changed from anaerobic to aerobic. Based on a review of the biostimulation data and the field parameters, the following observations have been made:

- The groundwater quality data from monitoring wells MW-112S (shallow zone aquifer) and MW-114 (deep zone aquifer) are considered to be representative of background conditions due to the historical relative absence of dissolved-phase hydrocarbons and aerobic conditions within these wells.
- Monitoring wells MW-11, MW-14, MW-33 and MW-70 show either current or historic low levels of contamination and are up-gradient or side-gradient of the main body of the plume. They have historically shown slight changes in some of the biostimulation parameters and appear to generally be fringe wells. However, since the start-up of the remediation system, measurable thicknesses of LNAPL have been observed in monitoring well MW-14. Biostimulation parameters were not measured in these wells during the 2nd Quarter 2016.
- Prior to the start-up of the remediation system, DO concentrations within the dissolved hydrocarbon plume in both the shallow and deep zone aquifers were indicative of anaerobic conditions. During the post-system startup groundwater monitoring event in April, DO concentrations were considered aerobic (> 1.0 mg/L) in four of the six measured shallow zone aquifer wells (MW-123S/RW-123S, RW-05S, RW-28S, and RW-116S) and in six of the seven measured deep zone aquifer wells (MW-25/RW-25, MW-27, MW-51/RW-51, MW-72/RW-72, RW-1, and TW-06). During the quarterly groundwater monitoring event in May, DO concentrations were considered aerobic in five of the six measured shallow zone aquifer wells (MW-10S/RW-10S, MW-123S/RW-123S, RW-05S, RW-28S, and RW-116S) and in nine of the

ten measured deep zone aquifer wells (MW-05/RW-05, MW-25/RW-25, MW-27, MW-31/RW-31, MW-51/RW-51, MW-72/RW-72, MW-106, MW-121, and RW-1). Anaerobic conditions were observed in three wells during the April sampling event (MW-01S, MW-51S, and MW-106) and in two wells during the May sampling event (MW-51S and MW-122). DO concentrations increased relative to historical measurements in monitoring wells MW-51S and MW-122 and were consistent with historical measurements in MW-01S and MW-106.

- ORP values were positive in three out of the six shallow zone aquifer wells (MW123S/RW123S, RW-28S, and RW-116S) and in six of the seven deep zone aquifer wells (RW-1, MW-106, MW-72/RW-72, MW-51/RW-51, MW-27, and MW-25/RW-25) during the April post-system startup groundwater monitoring event. ORP values were positive in four out of five of the shallow aquifer zone wells (MW-123S/RW-123S, RW-05S, RW-28S, and RW-116S) and in eight out of ten of the deep zone aquifer wells (MW-05/RW-05, MW-25/RW-25, MW-27, MW-31/RW-31, MW-51/RW-51, MW-72/RW-72, MW-106, RW-1) during the quarterly groundwater monitoring event in May. Positive ORP values are indicative of aerobic conditions. Wells with negative ORP readings included MW-01S, MW-51S, and RW-05S in the shallow zone aquifer and TW-06 in the deep zone aquifer in April and MW-51S in the shallow zone aquifer and MW-122 in the deep zone aquifer in May. The ORP value measured in well TW-06 had increased (become less negative) during the April sampling event. ORP values increased in recovery well RW-05S and moved from negative to positive from April to May. ORP values in wells MW-121 and MW-122 increased (became less negative) in May compared to the prior two sampling events. ORP values measured in monitoring well MW-51S were consistent with historical measurements. The increased and positive ORP values across the site are indicative of generally more aerobic conditions and contrast with conditions prior to system start-up when ORP values in most source area wells were negative.

- Alkalinity concentrations were elevated as compared to background conditions in one of the three shallow zone aquifer wells where it was measured (MW-51S) and in three of the seven deep zone aquifer wells where it was measured (MW-121, MW-122, and TW-03); however alkalinity concentrations decreased from previous concentrations in monitoring wells MW-51S and MW-122, which is suggestive of decreased microbial activity due to the change to aerobic conditions at the site. The alkalinity concentration increased in temporary well TW-03 and remained consistent in monitoring well MW-121. Alkalinity concentrations dropped to concentrations significantly lower than background wells in monitoring wells MW-10S/RW-10S and MW-72S/RW-72S and to levels comparable with background wells in monitoring well MW-27 and temporary well TW-06, suggesting that microbial activity in these areas may have dropped off due to the change in conditions from anaerobic to aerobic. Alkalinity concentrations remain stable below background well concentrations in MW-106.

- Nitrate concentrations in the three shallow zone aquifer wells where it was measured (MW-10S/RW-10S, MW-51S, and MW/RW-72S) and in the seven deep zone aquifer wells where it was measured (MW-27, MW-72/RW-72, MW-106, MW-121, MW-122, TW-03, and TW-06) indicate that nitrate reduction is essentially complete in these areas. Nitrite concentrations were non-detect in all but one (MW-51S) of the shallow zone aquifer wells where it was measured and in all but two (TW-03 and TW-06) of the deep zone aquifer wells where it was measured, in

which concentrations were consistent with historical measurements and slightly elevated above background (non-detect).

- Dissolved manganese concentrations in the three shallow zone aquifer wells where it was measured (MW-10S/RW-10S, MW-51S and MW-72S/RW-72S) and in the seven deep zone aquifer wells where it was measured (MW-27, MW-72/RW-72, MW-106, MW-121, MW-122, TW-03, and TW-06) show relatively increased concentrations over historic concentrations in background wells. These results are consistent with historical data where wells in the source zone and those downgradient, in both the shallow and deep zone aquifers, have shown increased manganese concentrations relative to background.
- Ferrous iron concentrations in the three shallow zone aquifer wells where it was measured (MW-10S/RW-10S, MW-51S and MW-72S/RW-72S) and in the seven deep zone aquifer wells where it was measured (MW-27, MW-72/RW-72, MW-106, MW-121, MW-122, TW-03, and TW-06) show generally significantly increased concentrations as compared to historical background well concentrations. However, significant decreases in ferrous iron concentrations were noted in wells MW-10S/RW-10S, MW-27, MW-72/RW-72, and MW-106 as compared to previous concentrations in these wells. This reduction is likely due to the increase in oxygen in the system and the conversion of ferrous iron to ferric iron.
- Sulfate as SO_4^{2-} concentrations in the three shallow zone aquifer wells where it was measured (MW-10S/RW-10S, MW-51S and MW-72S/RW-72S) and in the seven deep zone aquifer wells where it was measured (MW-27, MW-72/RW-72, MW-106, MW-121, MW-122, TW-03, and TW-06) show increased concentrations as compared with historical concentrations in background wells. Concentrations in shallow zone wells MW-10S/RW-10S, MW-51S, MW-72S/RW-72S and in deep zone wells MW-27, MW-121, MW-122, and TW-06 have increased significantly since the start-up of the remediation system. The observed increases in sulfate may be due to the addition of oxygen into the system combined with excess sulfur resulting from historical power plant operations. Sulfate concentrations in temporary well TW-03 have been consistently increasing over time, while concentrations in monitoring well MW-106 have remained fairly stable. Sulfate concentrations in well MW-72/RW-72 dropped slightly compared to historical concentrations.
- Methane concentrations in the three shallow zone aquifer wells where it was measured (MW-10S/RW-10S, MW-51S, and MW-72S/RW-72S) and in the seven deep zone aquifer wells where it was measured (MW-27, MW-72/RW-72, MW-106, MW-121, MW-122, TW-03, and TW-06) decreased from prior measurements, with significant decreases seen in the source zone. These decreases in methane concentrations are consistent with a shift to aerobic conditions and therefore, methanogenesis no longer being the primary mechanism of biodegradation at the Site.

Overall, the biostimulation data and field parameters indicate that the remediation system has successfully introduced oxygen into the source area. Based on the decreased alkalinity concentrations measured during the 2nd Quarter 2016, the change to aerobic conditions may have temporarily reduced microbial activity; however, activity is expected to increase once the microbes adjust to the utilization of oxygen.

3.0 REMEDIATION SYSTEM INSTALLATION AND START UP ACTIVITIES

Remediation system installation activities performed during the 2nd Quarter 2016, in accordance with the CAP-II, which was approved by the VDEQ on March 17, 2015, include:

- National Park Service coordination;
- Final system installation activities;
- Full system startup and operation;
- Bulk Head Wall Seep Sealing

3.1 NATIONAL PARK SERVICE COORDINATION

On February 11, 2016, the NPS authorized a Special Use Permit to cover field activities for the NPS property Scope of Work (SOW) required to implement the approved CAP. The NPS remained involved during the pre-planning stage as well as during site disturbance and site restoration activities.

Prior to initiating onsite activities, the NPS approved the field work schedule and included the trail closure schedule in their weekly NPS traffic advisory. They also notified established points of contact within affected parties, such as the bike community and the City of Alexandria Complete Streets Coordination and Traffic Operations departments. The City reviewed the detour plan, and the NPS provided a variable message board (VMB) on East Abingdon in addition to the traffic control provided by GES and NRG.

3.2 FINAL REMEDIAL SYSTEM INSTALLATION AND STARTUP

During the 2nd Quarter 2016, installation tasks requiring access to NPS property were completed. On April 4, 2016, Odyssey mobilized to the Site and GES led a construction kick-off meeting to discuss the necessary traffic control for the trail closure, the timeline, and the scope for the week. Vegetation was cleared in the work area as approved and marked by the NPS. To prepare for the installation of seven new biosparge points (SP-09, SP-10, SP-11, SP-12, SP-13, SP-14, and SP-15), soft-digging activities were completed with hand augers and a vacuum truck with an air knife lance and whip check. During soft-digging, storm water piping associated with four outfalls in the drilling area was daylighted and each biosparge point location was cleared to ensure no other utilities or obstructions would be damaged. Soft-digging and drilling overlapped as proposed biosparge well locations were cleared. Soft-digging activities were completed on April 12, 2016 and drilling activities were completed on April 13, 2016. Well development was conducted on April 13-15, 2016.

On April 7, 2016, while soft-digging biosparge point SP-15, elevated photoionization detector readings (211.5 parts per million) were encountered at a depth of 5.5 feet below ground surface. A soil sample was collected and submitted to Eurofins for TPH-DRO analysis with a result of 1,600 mg/kg. A copy of the Soil Analytical Data Summary Table is included as **Table 8**. A copy of the laboratory report and chain of custody documentation is included as **Attachment D**.

Remediation trenching, piping, well head modifications and tie-ins, and manifold connections were completed from April 13 through April 18, 2016. All biosparge lines passed pressure and leak testing before being deemed serviceable. Final manifold connections were completed on May 3, 2016. All liquid and solid non-hazardous waste was drummed for proper offsite disposal. Liquid wastes were removed from the site on May 19, 2016 and solid wastes were removed by Veolia on June 14, 2016. Waste documentation is included in **Attachment A**.

GES worked on agreement and implementation of the site restoration with the NPS from April 25 through May 17, 2016. GES provided a list of eight trees that had been cleared, which was a subset of the trees that had been approved for removal. The NPS confirmed the list during a site visit and worked with GES to compile a replacement plant list. On May 5, 2016, the NPS marked planting locations for 48 replacement plants, which included two black haw, one elm, four persimmon, fifteen red bud, and twenty-six sassafras. On May 16, 2016, tree planting was initiated. Based on availability, four of the sassafras were replaced with red bud, and the modification was pre-approved by the NPS on May 16, 2016. NPS was also onsite during the first day of planting to move select locations blocking the NRG artwork fence and to review and approve the staking and maintenance plan. The NPS agreed to water and maintain the trees after planting was complete. Planting activities were finished on May 17, 2016.

The boring logs for the deep biosparge wells installed in April are presented in **Attachment E**. The remediation system and piping is presented in **Figure 4 – Remediation System Layout Map**.

Biosparge wells SP-09, SP-10, SP-11, SP-12, SP-13, SP-14, and SP-15 were brought online on May 3, 2016. These wells are integrated into one header line at the system with a manifold adjacent to the wells on the NPS perimeter fence. At the manifold, the flows were set to 0.5 scfm and the pressures ranged from 4.2 to 7.0 psi. The location of sound-producing equipment (beneath the precipitator shed on NRG property) did not change.

3.4 BULK HEAD WALL SEEP SEALING

A total of 6 bulk head wall seep areas, 17 rigging holes, and 3 outfall pipes in need of repair were identified within the steel bulkhead wall along the Potomac River. These areas were identified as locations with the potential for impacted groundwater to migrate into the Potomac River, and were therefore sealed. Repairs were completed between April and June 2016.

The six seep areas were repaired by either welding or applying epoxy to secure ¼" A-36 steel plates over the holes. FX-922 Fast-Setting Hydraulic Cement Mortar (Simpson Strong-Tie) was used for coating as needed and the entire plate and weld were coated with FX-763 Low Modulus Trowel-Grade Epoxy (Simpson Strong-Tie).

The 17 rigging holes were repaired by welding ¼" A-36 steel plates over the holes and coating with FX-406 Zinc-Rich Primer (Simpson Strong-Tie).

The outfall pipes were sealed between the pipes' outside diameter and the bulk head using an epoxy and then coated with FX-922 Fast-Setting Hydraulic Cement Mortar (Simpson Strong-Tie) and FX-763 Low Modulus Trowel-Grade Epoxy (Simpson Strong-Tie).

3.5 PERMIT SUMMARY

Special Use Permit

Required for: Offsite biosparge well installation and remediation system piping on the Mt. Vernon Trail and bulk head seep sealing
Issued by: National Parks Service
Status: Special Use Permit NCR GWMP 6000-15-088 has been approved, effective 2/11/2016 – 10/31/2018.

Significant Industrial User Permit:

Required for: Sanitary sewer discharges less than 25,000 gallons per day with low risk of negatively impacting the sanitary sewer system.
Issued by: AlexRenew
Status: AlexRenew issued an approval letter on January 13, 2016, pending results from initial system effluent sampling. Following receipt of the preliminary system effluent sampling results, final approval to discharge was granted on March 11, 2016. Monthly SMRs were submitted to AlexRenew during the 2nd Quarter 2016.

Air Permit

A Minor New Source Review permit will be required for the site if the uncontrolled emissions exceed 25 tons per year for VOCs for a new source. The specific emission units on the remediation system are the Tandem Eurus MB4506 and the MB4509 Rotary Lobe Blowers, which are located in series. The discharge vapor will contain hydrocarbons that are volatilized off of the impacted soil. The total hydrocarbon mass estimate for TPH-DRO within the soil was determined to be 24,444 kilograms (53,890 pounds). The estimated system operation duration is 22 months. Not all of the soil mass will be remediated by the remediation system and only a fraction of the TPH-DRO compounds volatilize into the air. However, the total hydrocarbon soil mass was used in calculations to determine an upper bound or maximum projected uncontrolled emission rate, which is shown below:

Maximum emission rate = (53,890 pounds x 12 months per year) / (22 months x 2,000 pounds) = 14.70 tons per year

Because even the maximum uncontrolled emissions are projected to be less than 25 tons per year, a Minor New Source Review permit is not required. Nuisance odors have not been a problem since system start-up.

However, in the event of future odor complaints, additional treatment options may be considered.

3.6 FUTURE ACTIVITIES (3RD QUARTER 2016)

- Routine quarterly groundwater sampling for petroleum and biostimulation parameters in accordance with the approved groundwater sampling plan;
- Monthly gauging of select wells;
- System operation;
- Twice monthly system O&M;
- Submittal of quarterly CMR; and
- Submittal of monthly SMRs.

4.0 REMEDIATION SYSTEM OPERATION

The remediation system consists of three separate systems: total phase extraction (TPE), pump and treat (P&T), and biosparge. The locations of the wells used for each system are shown on the Remediation System Layout Map (**Figure 4**). The TPE, P&T, and biosparge systems all operated during the 2nd Quarter 2016. The reporting period for the 2nd Quarter 2016 was from March 30, 2016 to June 21, 2016, and was controlled by the O&M schedule. The biosparge system initially had one operating leg, and on May 3, 2016 a second leg was brought online with seven additional biosparge wells. On May 10, 2016, an electric conduit was repaired and fuses in the system main disconnect were replaced. On May 19, 2016, the oil/water separator was cleaned out. On June 14, 2016, insulation was installed on the vapor/liquid separation to mitigate condensate accumulation, and critical equipment (such as high liquid level switches) were inspected and tested with passing results.

The TPE system operated for approximately 68 days out of 83 days during the reporting period, with a system uptime of 82%. The average vapor flow rate for the reporting period was 349 standard cubic feet per minute (scfm). The total groundwater flow for the reporting period was 13,988 gallons (gal) with an average flow rate of 0.14 gallons per minute (gpm). The cumulative groundwater flow since system startup was 16,560 gallons by the end of the reporting period. The estimated vapor >C4-C10 hydrocarbon recovery for the reporting period was 597 pounds (lbs), and the estimated groundwater TPH-DRO recovery for the reporting period was 3.5 lbs. A TPE Operational Summary is included as **Table 9** and system sampling analytical reports are included in **Attachment F**.

The P&T system operated for approximately 69 days out of 83 days during the reporting period, with a system uptime of 83%. The total groundwater flow for the reporting period was 266,211 gal, with an average flow rate of 2.7 gpm. The cumulative groundwater flow since system startup was 310,118 gallons. The estimated groundwater TPH-DRO recovery for the reporting period was 4.7 lbs. An additional 24.1 lbs of LNAPL was recovered by the oil/water separator and manual bailing. A P&T Operational Summary is included as **Table 10** and analytical reports are included in **Attachment F**.

The biosparge system operated for approximately 73 days out of 83 days during the reporting period, with a system uptime of 88%. The average flow for each of the biosparge wells on the first leg (SP-01 through SP-08) was 0.8 scfm and the average flow for the wells on the second leg (SP-09 through SP-15) was 0.5 scfm. A Biosparge Operational Summary is included as **Table 11**.

The total estimated hydrocarbon recovery to date is 974 lbs (133 gallons). This includes 34 lbs of dissolved-phase, 859 lbs of vapor-phase, and 81 lbs of liquid-phase. The liquid-phase recovery is inclusive of previously bailed LNAPL and recovery from the TPE and P&T systems. A Hydrocarbon Recovery Summary is included as **Table 12**.

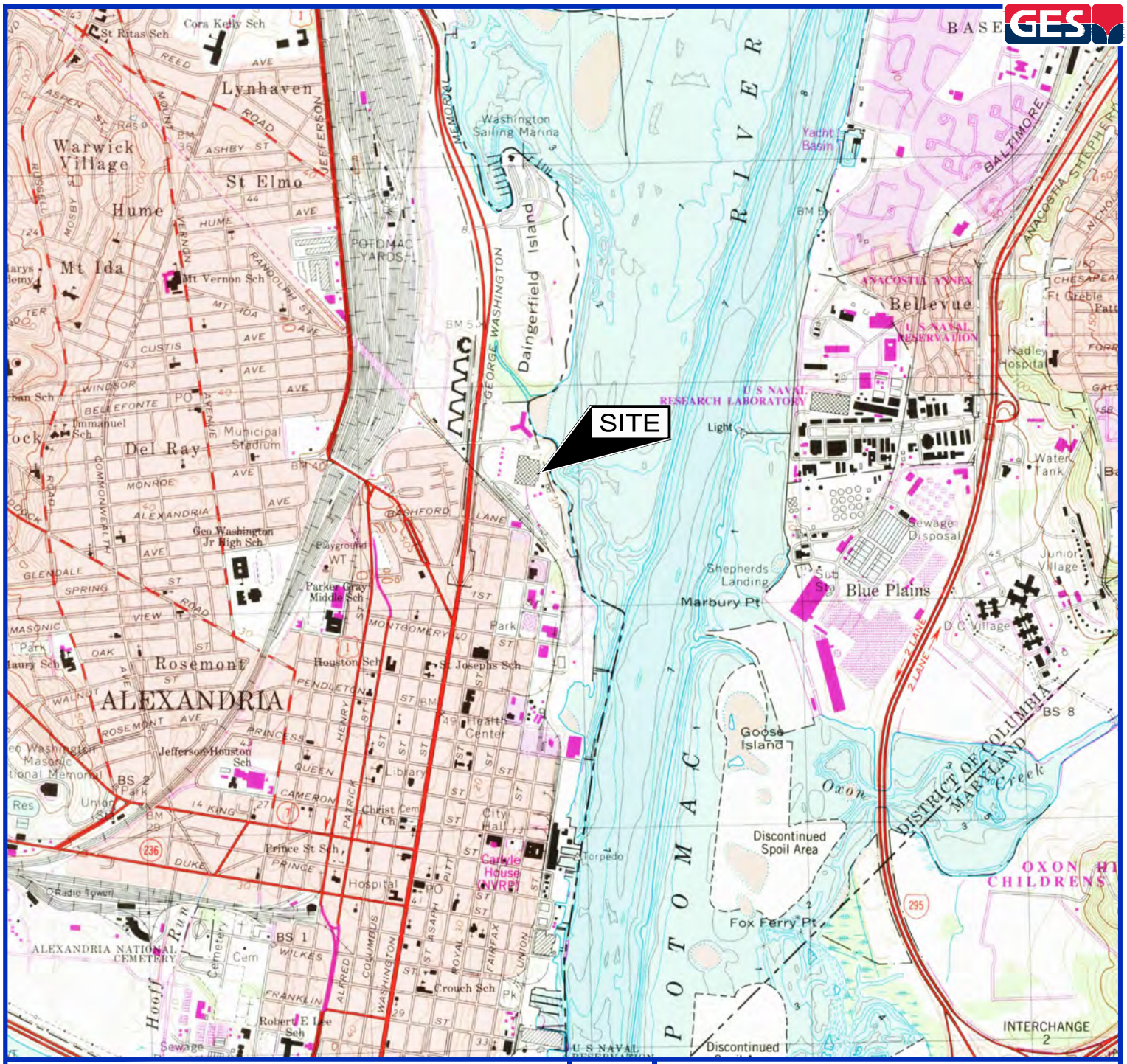
Hydrocarbon Recovery:
Dissolved-Phase Hydrocarbons (Period/Cumulative): **8 lbs / 34 lbs**
Vapor-Phase Hydrocarbons (Period/Cumulative): **597 lbs / 859 lbs**
Liquid-Phase Hydrocarbons (Period/Cumulative): **24 lbs / 81 lbs**
Total Hydrocarbon Recovery (Period/Cumulative): **629 lbs / 974 lbs**

5.0 CONCLUSIONS

GES has completed this 2nd Quarter 2016 CMR for the Potomac River Generating Station, located at 1400 North Royal Street, Alexandria, Virginia. The following is a summary of pertinent findings from the 2nd Quarter 2016 monitoring and remedial activities conducted at the site:

- LNAPL was observed in four of the site monitoring wells (MW-01S, MW/RW-10S, MW-14, and MW-25S) during the 2nd Quarter 2016.
- Groundwater flow in the shallow zone switched from east-northeast in April to radial towards MW-08S and RW-30 in May. Groundwater flow in the deep zone has been radial towards RW-05, RW-25, and RW-51. The radial flow is attributed to the effects of the pumping wells associated with the remediation system.
- TPH-DRO was detected in 17 of the 17 groundwater wells sampled during the post-system start-up groundwater monitoring event in April, with a maximum concentration of 150,000 µg/L in recovery well RW-123S. TPH-DRO was detected in 25 of the 26 groundwater wells sampled during the quarterly sampling event in May, with a maximum concentration of 270,000 µg/L in monitoring/recovery well MW-10S/RW-10S.
- The analysis of biostimulation parameters suggests that the start-up of the remediation system in March 2016 has introduced oxygen to the subsurface and is changing conditions in the zones of active remediation from anaerobic to aerobic. A decrease in alkalinity suggests that the microbial activity is somewhat decreased but it is likely that this is due to the introduction of oxygen and the microbes needing to re-acclimate to aerobic conditions. It is anticipated that microbial activity will again increase following acclimatization.
- System installation activities for the second biosparge leg, which required access to NPS property and closure of a public trail, was completed on April 18, 2016. Additional connections on NRG property were completed on May 3, 2016 and the biosparge wells associated with the second biosparge leg (SP-09, SP-10, SP-11, SP-12, SP-13, SP-14, and SP-15) were brought online on May 3, 2016.
- System operation and/or maintenance visits were performed on April 7, April 13, April 20, April 27, May 5, May 10, May 18, May 25, June 2, June 8, June 14, and June 21, 2016.
- Monthly discharge SMRs were submitted to AlexRenew.

FIGURES



REFERENCE: "ALEXANDRIA, VIRGINIA"
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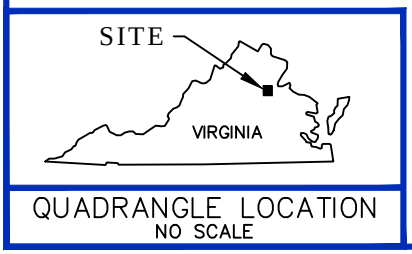
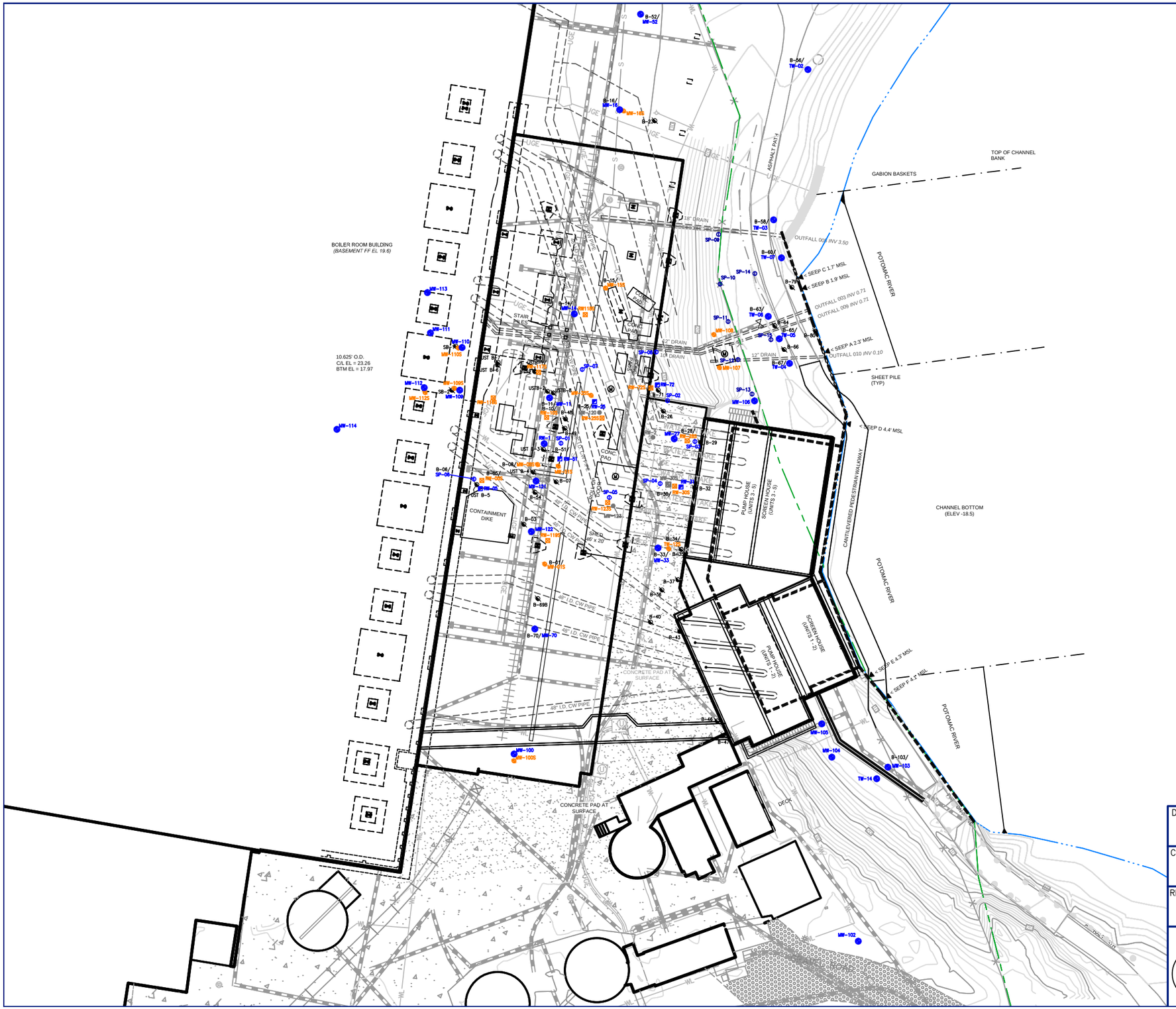


QUADRANGLE LOCATION
NO SCALE

DRAFTED BY: JW	SITE LOCATION MAP
CHECKED BY: NG	FORMER POTOMAC RIVER GENERATING STATION ALEXANDRIA, VIRGINIA
REVIEWED BY: AC	Groundwater & Environmental Services, Inc. 1350 BLAIR DR., SUITE A, CROFTON, MD 21113
NORTH	SCALE IN FEET: 0 – 1,000 / DATE: 7-17-15 / FIGURE: 1



LEGEND

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- FAILED WELL LOCATION
- APPROXIMATE SOIL BORING LOCATION
- WL — UNDERGROUND POTABLE WATER LINE
- UGE — UNDERGROUND ELECTRIC LINE
- STORM DRAIN LINE

AS-BUILT DRAWINGS

DRAFTED BY: W.A.W.	SITE LAYOUT MAP
CHECKED BY:	POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
	SCALE IN FEET (APPROXIMATE) 0 50 / DATE 7-8-16 / FIGURE 2

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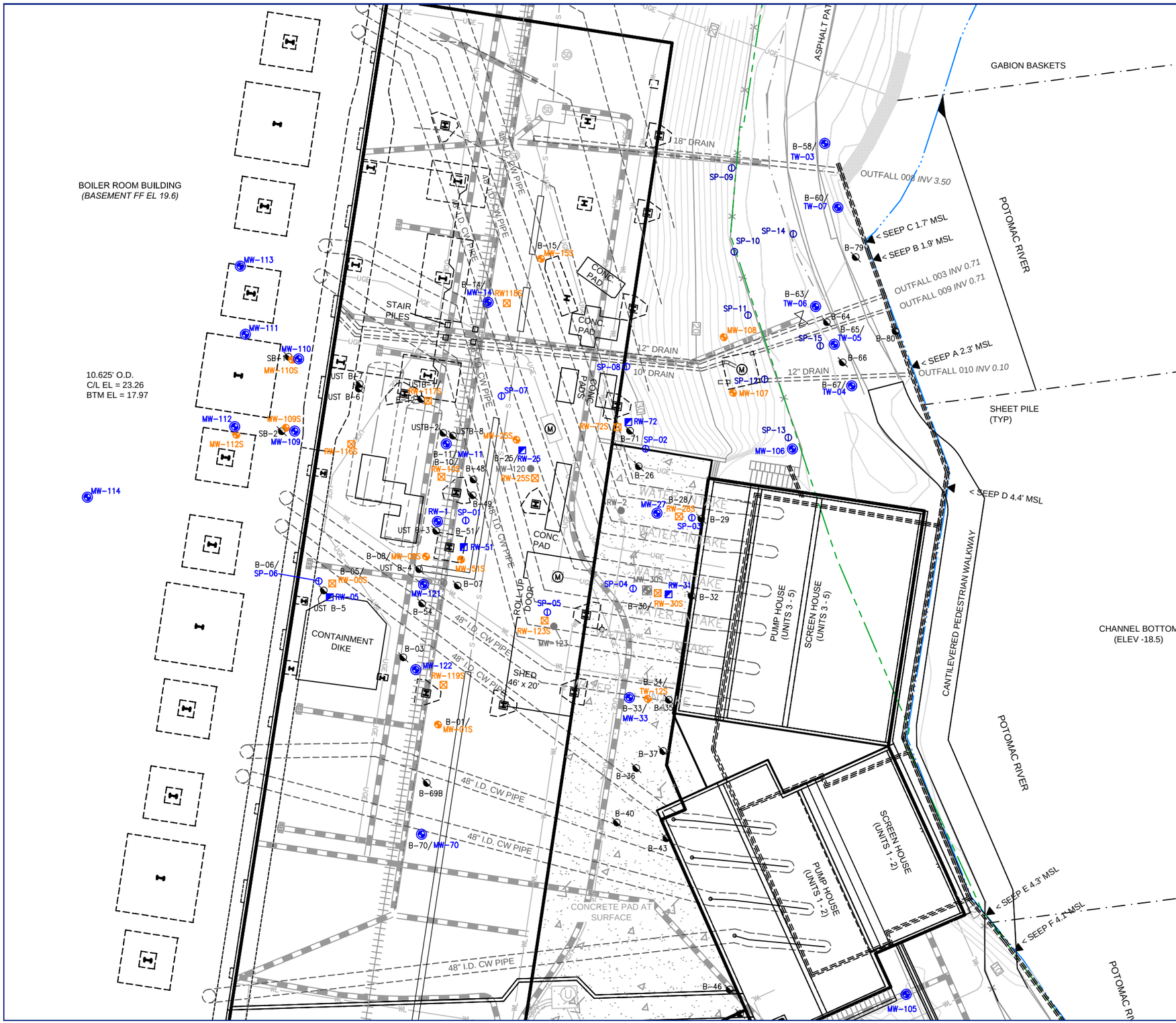

LEGEND

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- FAILED WELL LOCATION
- APPROXIMATE SOIL BORING LOCATION
- UNDERGROUND POTABLE WATER LINE
- UNDERGROUND ELECTRIC LINE
- STORM DRAIN LINE

AS-BUILT DRAWINGS

DRAFTED BY: W.A.W.	SITE MAP
CHECKED BY:	POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET 0 30 / DATE 7-8-16 / FIGURE 3

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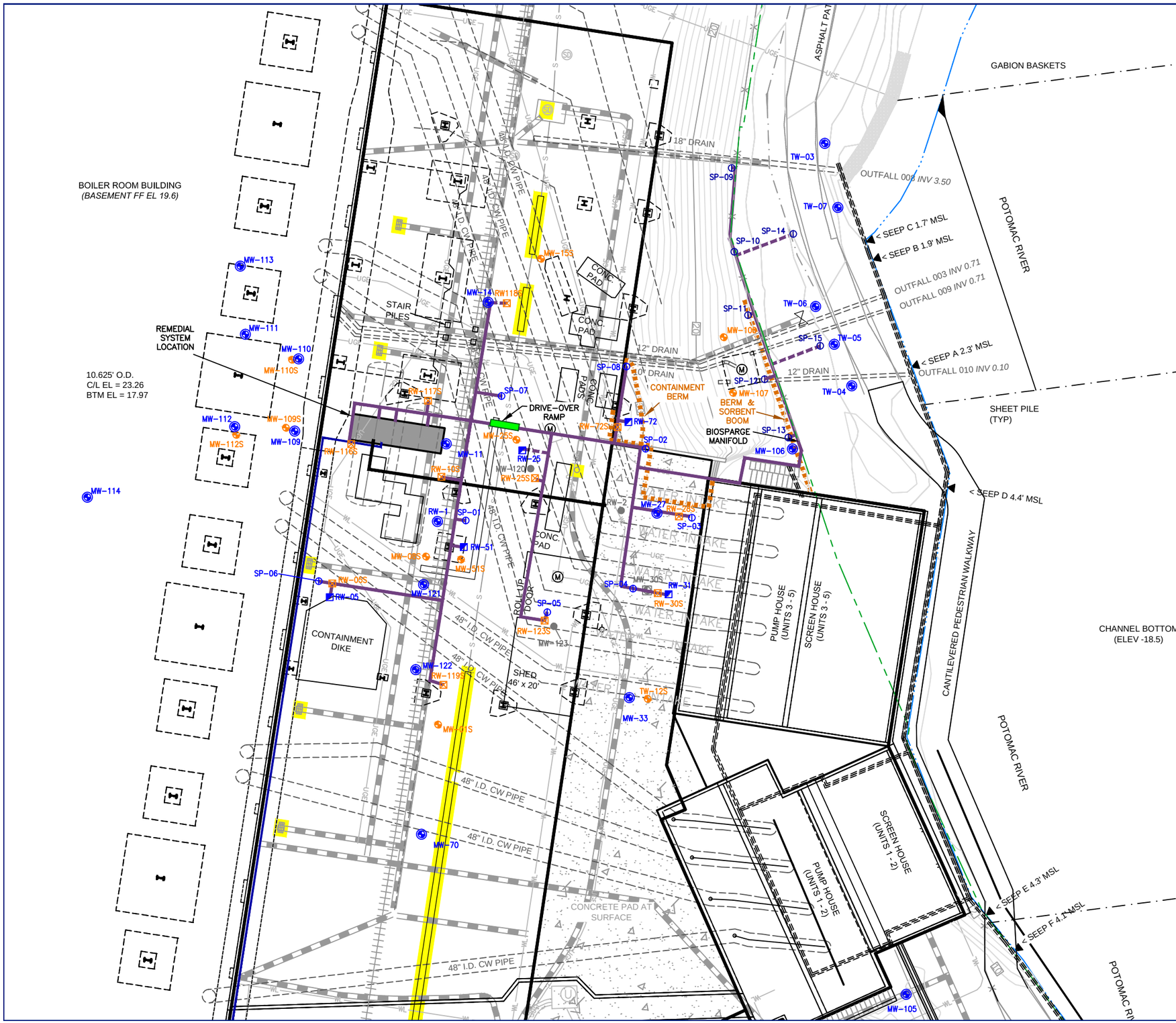

LEGEND

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- FAILED WELL LOCATION
- SURFACE DRAIN INLETS
- UNDERGROUND POTABLE WATER LINE
- UNDERGROUND ELECTRIC LINE
- STORM DRAIN LINE
- REMEDIATION PIPING (ABOVE GROUND)
- REMEDIATION PIPING (BELOW GROUND)
- WATER DISCHARGE LINE
- AIR DISCHARGE LINE

AS-BUILT DRAWINGS

NOTE:
REMEDIATION PIPING INCLUDES P&T, TPE, AND BIOSPARGE, BUT IS SHOWN AS ONE PIPING RUN FOR CLARITY. FIGURES 2, 3, AND 4 SHOW THE INDIVIDUAL PIPING.

DRAFTED BY: W.A.W.	REMEDIATION SYSTEM LAYOUT MAP
CHECKED BY:	POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
SCALE IN FEET 0 30	DATE 7-8-16 / FIGURE 4

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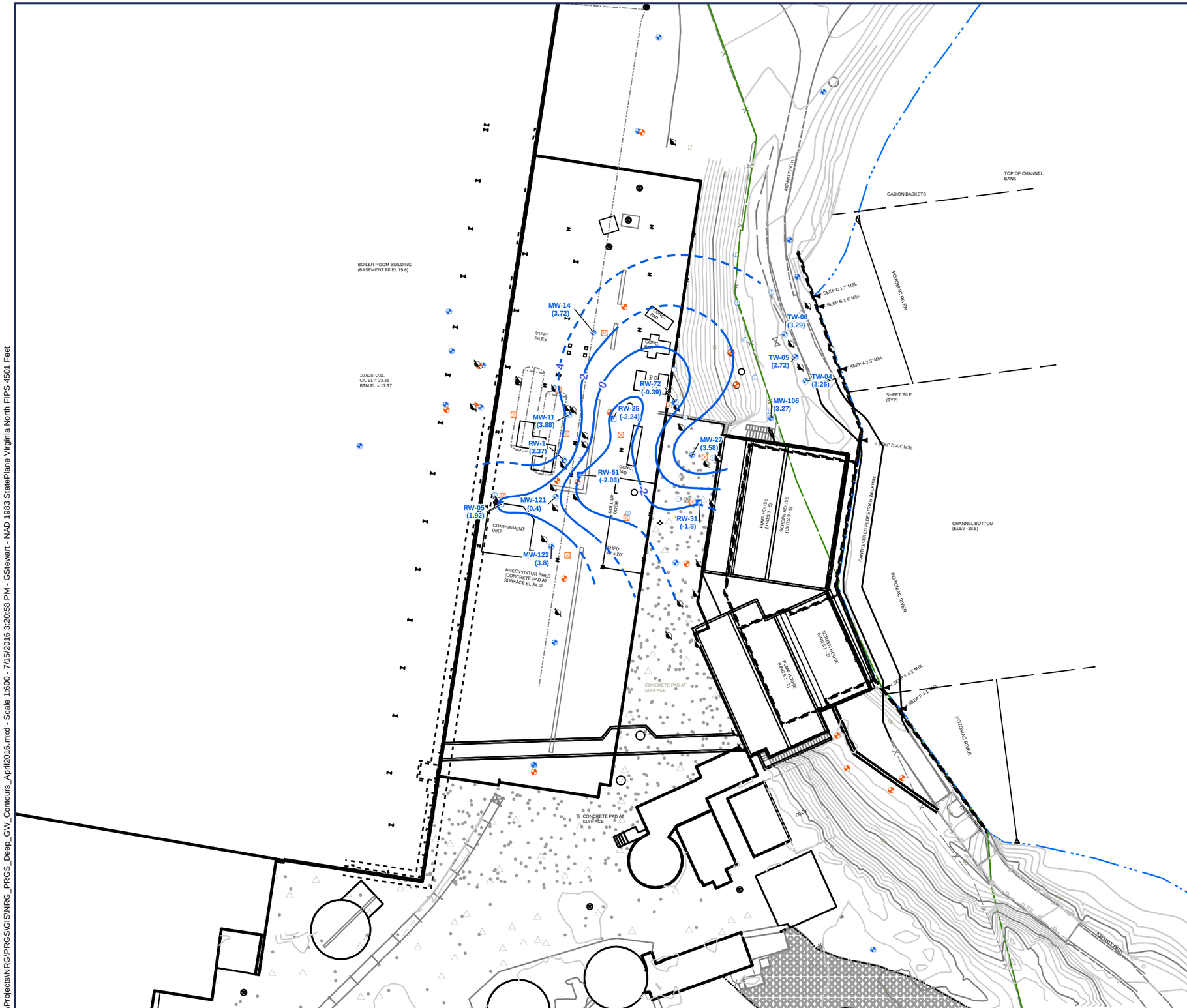
Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- POTOMAC RIVER
- PROPERTY BOUNDARY
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- (8.46) GROUNDWATER ELEVATION (FT)

DRAFTED BY: GKS	POTENTIOMETRIC SURFACE SHALLOW ZONE AQUIFER – APRIL 21, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
SCALE IN FEET 0 – 50	DATE 7–20–16 / FIGURE 5

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_GW_Contours_April2016.mxd - Scale 1:600 - 7/20/2016 8:27:05 AM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet



Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- POTOMAC RIVER
- PROPERTY BOUNDARY
- (8.46) GROUNDWATER ELEVATION (FT)

DRAFTED BY: GKS	POTENTIOMETRIC SURFACE DEEP ZONE AQUIFER – APRIL 21, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
SCALE IN FEET 0 – 50	DATE 7–15–16 / FIGURE 6

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Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- POTOMAC RIVER
- PROPERTY BOUNDARY
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- (8.46) GROUNDWATER ELEVATION (FT)

NOTE:
MW-16S WAS DRY.

DRAFTED BY: GKS	POTENTIOMETRIC SURFACE SHALLOW ZONE AQUIFER – MAY 23, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
	SCALE IN FEET: 0 – 50 / DATE: 7–15–16 / FIGURE: 7

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Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- POTOMAC RIVER
- PROPERTY BOUNDARY
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- (8.46) GROUNDWATER ELEVATION (FT)

NOTE:
TW-03 WAS NOT MEASURED DUE TO GEOSYNTEC LOW-FLOW SAMPLING THE WELL.
RW-31 WAS NOT MEASURED DUE TO AN OBSTRUCTION IN THE WELL.

DRAFTED BY: GKS	POTENTIOMETRIC SURFACE DEEP ZONE AQUIFER – MAY 23, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113

SCALE IN FEET	DATE	FIGURE
0 – 50	7–15–16	8

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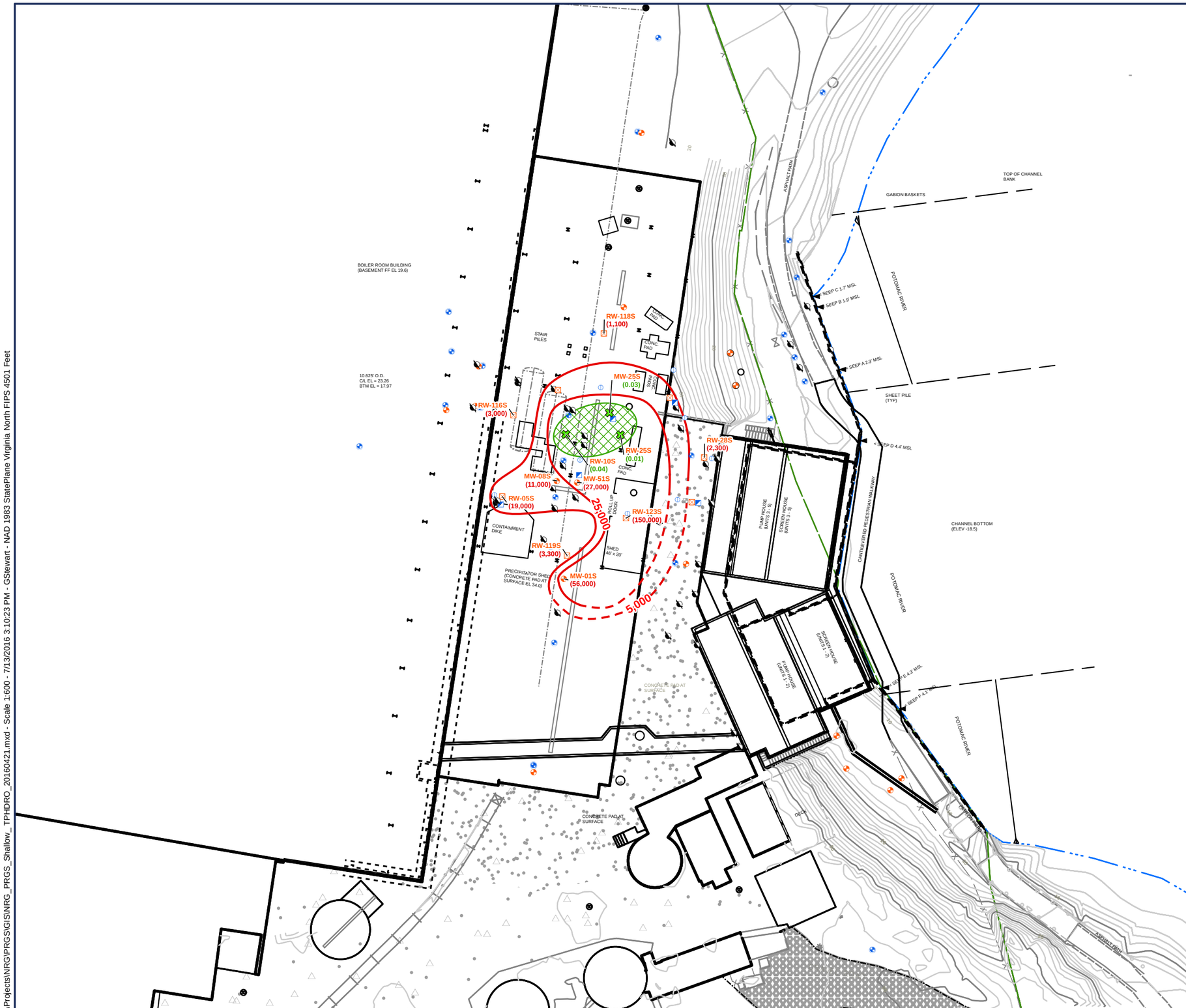


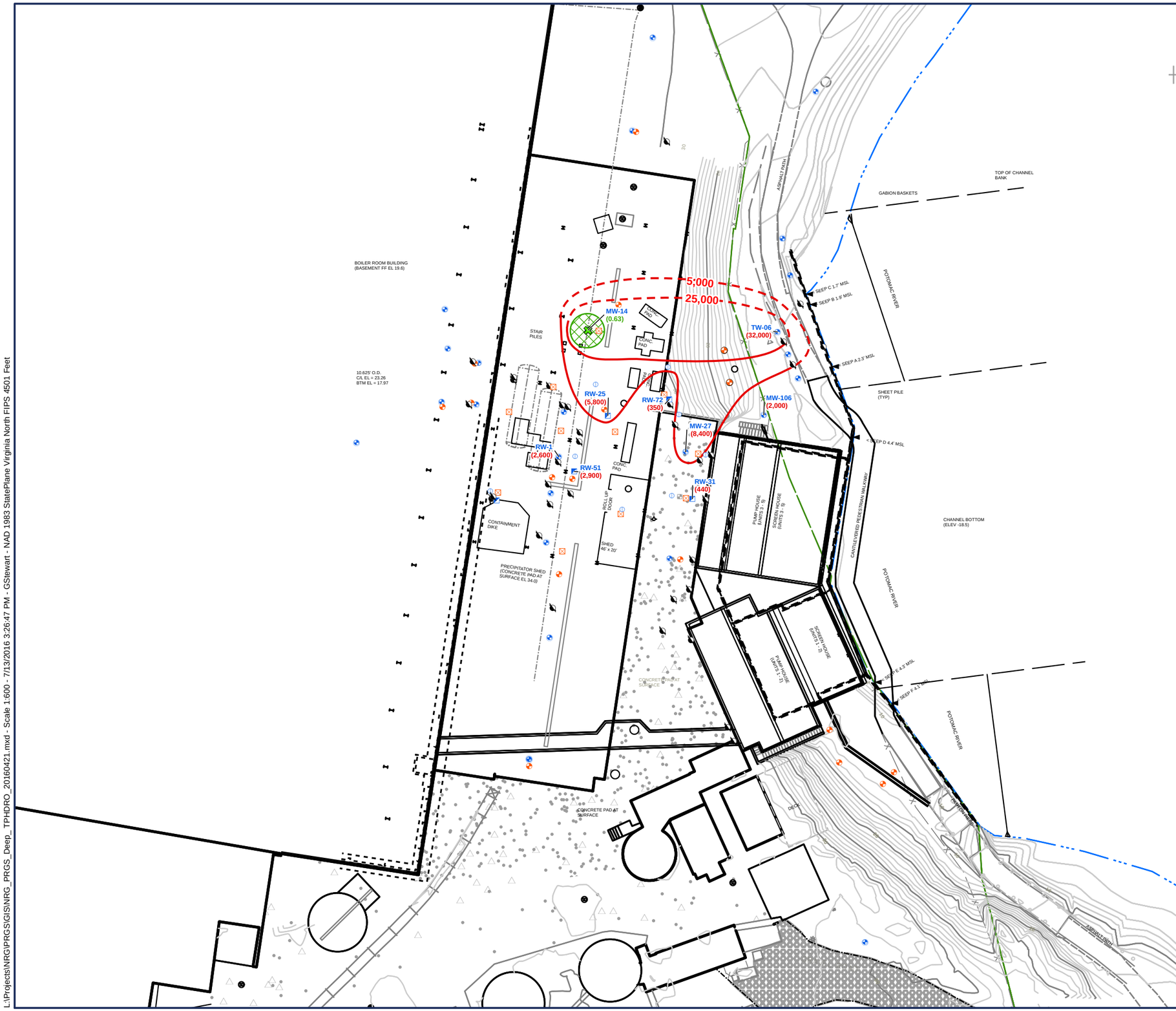
Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- POTOMAC RIVER
- PROPERTY BOUNDARY
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- TPH-DRO CONCENTRATION CONTOUR (UG/L)
- DASHED WHERE INFERRED
- (1,100) TPH-DRO CONCENTRATION (UG/L)
- LNAPL OBSERVED
- LNAPL CONTOUR
- (0.01) LNAPL THICKNESS (FT)

Note:
TPH-DRO: Total Petroleum Hydrocarbons - Diesel Range Organics
UG/L: Micrograms per liter
LNAPL: Light Non-Aqueous Phase Liquid

DRAFTED BY: GKS	TPH-DRO CONCENTRATION CONTOURS SHALLOW ZONE AQUIFER – APRIL 21, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
SCALE IN FEET 0 – 50	DATE 7-13-16 / FIGURE 9

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_TPHDRO_20160421.mxd - Scale 1:600 - 7/13/2016 3:10:23 PM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet



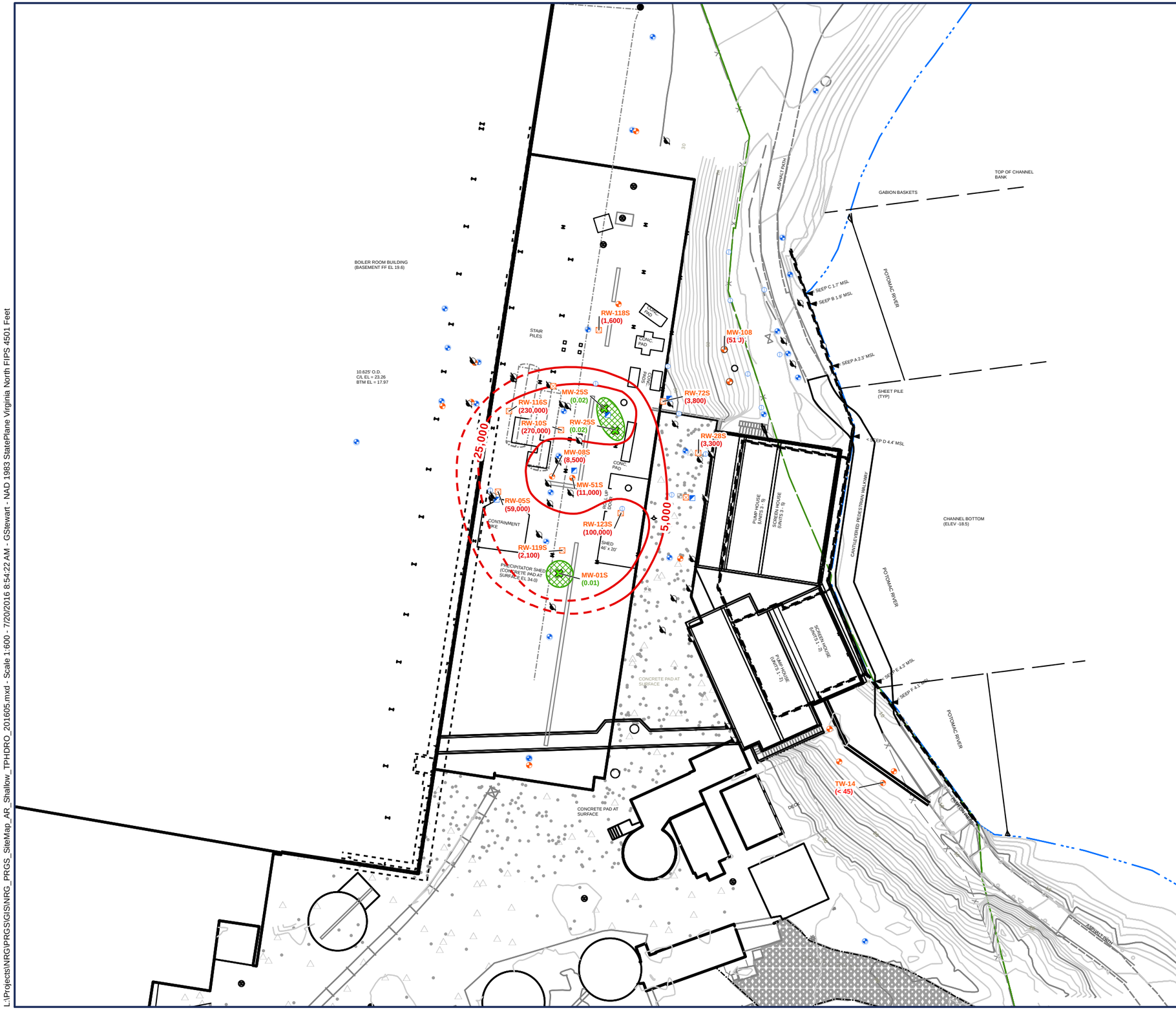
Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- POTOMAC RIVER
- PROPERTY BOUNDARY
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- TPH-DRO CONCENTRATION CONTOUR (UG/L)
- DASHED WHERE INFERRED
- (350) TPH-DRO CONCENTRATION (UG/L)
- LNAPL OBSERVED
- LNAPL CONTOUR
- (0.63) LNAPL THICKNESS (FT)

Note:
TPH-DRO: Total Petroleum Hydrocarbons - Diesel Range Organics
UG/L: Micrograms per liter
LNAPL: Light Non-Aqueous Phase Liquid

DRAFTED BY: GKS	TPH-DRO CONCENTRATION CONTOURS DEEP ZONE AQUIFER – APRIL 21, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
	SCALE IN FEET 0 50 / DATE 7-13-16 / FIGURE 10

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_TPHDRO_20160421.mxd - Scale 1:600 - 7/13/2016 3:26:47 PM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet



Legend

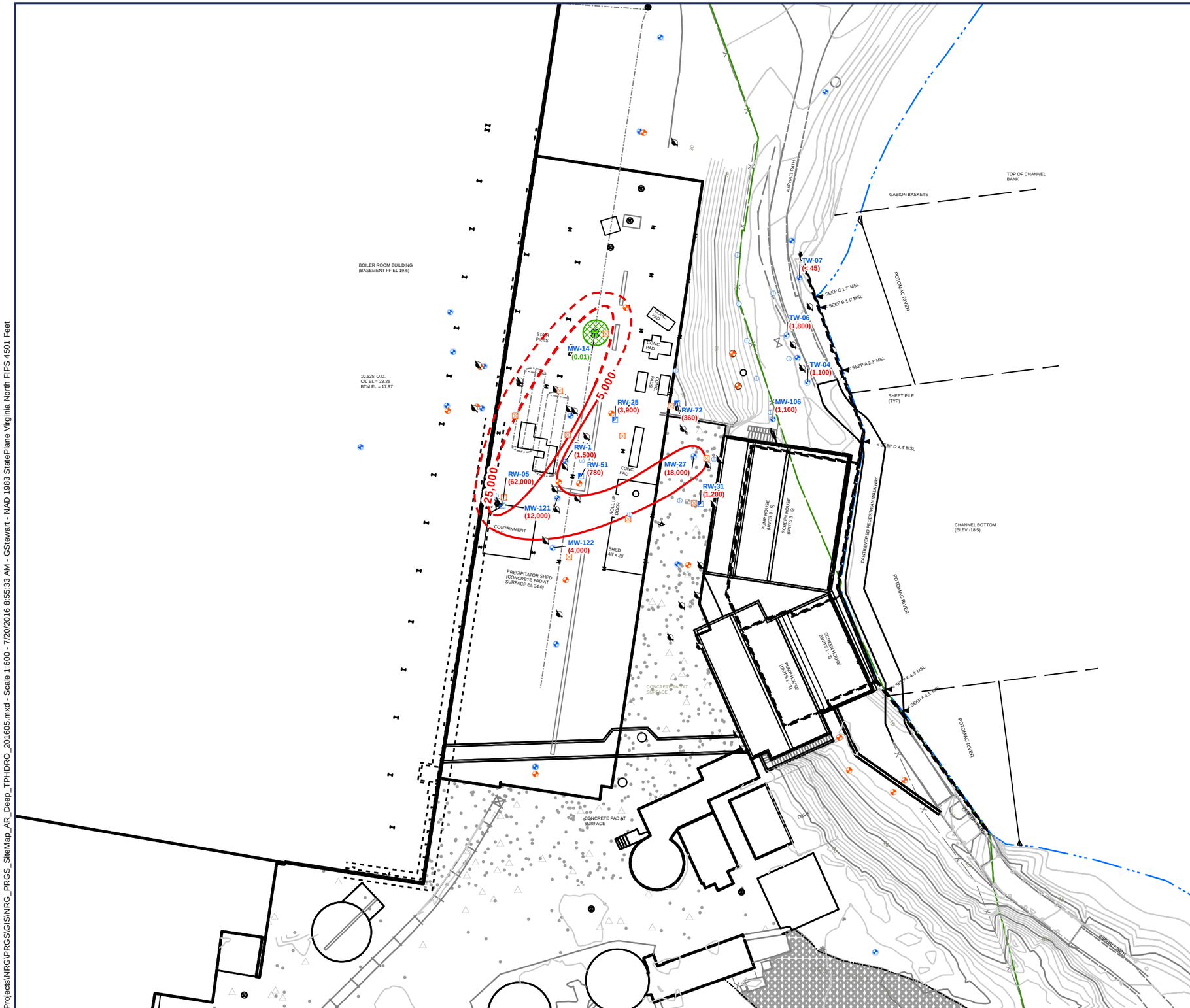
- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- TPH-DRO CONCENTRATION CONTOUR (UG/L)
- DASHED WHERE INFERRED
- (1,600) TPH-DRO CONCENTRATION (UG/L)
- LNAPL OBSERVED
- LNAPL CONTOUR
- (0.02) LNAPL THICKNESS (FT)

Note:
TPH-DRO: Total Petroleum Hydrocarbons - Diesel Range Organics
UG/L: Micrograms per liter
LNAPL: Light Non-Aqueous Phase Liquid

The LNAPL thickness presented is from the thickest LNAPL measurement recorded in a well during the entire sampling event.
TW-12S, RW-30S and RW-117S were not sampled because they were dry or not enough water to sample.
MW-01S, MW-25S, and RW-25S were not sampled due to the presence of LNAPL.

DRAFTED BY: GKS	TPH-DRO CONCENTRATION CONTOURS SHALLOW ZONE AQUIFER – MAY 23-25, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY: AAB	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET 0 50 / DATE 7-20-16 / FIGURE 11

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_SiteMap_AR_Shallow_TPHDRO_201605.mxd - Scale 1:600 - 7/20/2016 8:54:22 AM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet



Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP PUMP & TREAT RECOVERY WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- TPH-DRO CONCENTRATION CONTOUR (UG/L)
- DASHED WHERE INFERRED
- (1,100) TPH-DRO CONCENTRATION (UG/L)
- LNAPL OBSERVED
- LNAPL CONTOUR
- (0.01) LNAPL THICKNESS (FT)

Note:
TPH-DRO: Total Petroleum Hydrocarbons - Diesel Range Organics
UG/L: Micrograms per liter
LNAPL: Light Non-Aqueous Phase Liquid

The LNAPL thickness presented is from the thickest LNAPL measurement recorded in a well during the entire sampling event.
MW-14 was not sampled due to the presence of LNAPL.
TW-05 was not sampled because of an interference caused by the new sparge points which led to air entering the well and too high of a turbidity to sample.

DRAFTED BY: GKS	TPH-DRO CONCENTRATION CONTOURS DEEP ZONE AQUIFER - MAY 23-25, 2016
CHECKED BY: DMC	FORMER POTOMAC RIVER GENERATING STATION 1400 NORTH ROYAL STREET ALEXANDRIA, VIRGINIA
REVIEWED BY: AAB	Groundwater & Environmental Services, Inc. 1350 BLAIR DRIVE, SUITE A, ODENTON, MD 21113
NORTH	SCALE IN FEET 0 50 / DATE 7-20-16 / FIGURE 12

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_SiteMap_AR_Deep_TPHDRO_201605.mxd - Scale 1:600 - 7/20/2016 8:55:33 AM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet

TABLES

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)
MW-01S	MW	Shallow	7/29/2014	4	27	17	10
MW-05 / RW-05	P&T	Deep	8/1/2014	4	35	25	10
MW-08S	MW	Shallow	7/23/2014	4	25	15	10
MW-10S / RW-10S	TPE	Shallow	7/28/2014	4	27	17	10
MW-11	MW	Deep	7/24/2014	4	35	25	10
MW-14	MW	Deep	7/29/2014	4	38.5	28.5	10
MW-15S	MW	Shallow	7/31/2014	4	26	16	10
MW-16S	MW	Shallow	8/13/2014	2	25	15	10
MW-16	MW	Deep	8/14/2014	2	36	26	10
MW-25S	MW	Shallow	8/5/2014	4	26	16	10
MW-25 / RW-25	P&T	Deep	7/24/2014	4	35	25	10
MW-27	MW	Deep	7/21/2014	4	35	25	10
MW-31 / RW-31	P&T	Deep	8/5/2014	4	36	26	10
MW-33	MW	Deep	8/5/2014	4	35	25	10
MW-51S	MW	Shallow	8/6/2014	4	25.5	15.5	10
MW-51 / RW-51	P&T	Deep	7/22/2014	4	37	27	10
MW-52	MW	Deep	8/14/2014	2	36	26	10
MW-70	MW	Deep	8/13/2014	2	36	26	10
MW-72S / RW-72S	TPE	Shallow	8/7/2014	4	25	15	10
MW-72 / RW-72	P&T	Deep	7/30/2014	4	35	25	10
MW-100S	MW	Shallow	8/12/2014	2	24.5	14.5	10
MW-100	MW	Deep	8/12/2014	2	37.5	27.5	10
MW-102	MW	Deep	8/11/2014	2	37	27	10

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)
MW-103	MW	Shallow	7/23/2014	2	15	5	10
MW-104	MW	Shallow	7/24/2014	2	12	2	10
MW-105	MW	Shallow	7/24/2014	2	10	1	9
MW-106	MW	Deep	7/22/2014	2	10	3	7
MW-107	MW	Shallow	7/22/2014	2	11	3	8
MW-108	MW	Shallow	7/23/2014	2	10	4	6
MW-109S	MW	Shallow	8/20/2014	4	13.5	3.5	10
MW-109	MW	Deep	8/19/2014	4	24	14	10
MW-110S	MW	Shallow	8/20/2014	4	13	3	10
MW-110	MW	Deep	8/20/2014	4	24	14	10
MW-111	MW	Deep	8/18/2014	2	22	12	10
MW-112S	MW	Shallow	8/12/2014	4	13	3	10
MW-112	MW	Deep	8/12/2014	4	24	14	10
MW-113	MW	Deep	8/19/2014	2	23	13	10
MW-114	MW	Deep	8/21/2014	2	23	13	10
MW-121	MW	Deep	7/2/2015	4	37	27	10
MW-122	MW	Deep	6/24/2015	4	37	27	10
MW-123S / RW-123S	TPE	Shallow	7/7/2015	4	25	21	4
TW-02	MW	Deep	12/12/2013	1	24	14	10
TW-03	MW	Deep	12/12/2013	1	15	5	10
TW-04	MW	Deep	12/13/2013	1	15	5	10
TW-05	MW	Deep	12/13/2013	1	10	0	10
TW-06	MW	Deep	12/13/2013	1	15	5	10

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)
TW-07	MW	Deep	12/13/2013	1	15	5	10
TW-12S	MW	Shallow	12/18/2013	1	25	15	10
TW-14	MW	Shallow	1/15/2014	1	5.5	0.5	5
RW-1	MW	Deep	10/2/2014	4	41	26	15
RW-05S	TPE	Shallow	6/29/2015	4	26	21	5
RW-25S	TPE	Shallow	7/7/2015	4	25	20	5
RW-28S	TPE	Shallow	7/6/2015	4	27	22	5
RW-30S	TPE	Shallow	6/23/2015	4	29	24	5
RW-116S	TPE	Shallow	6/26/2015	4	26	21	5
RW-117S	TPE	Shallow	6/23/2015	4	25	20	5
RW-118S	TPE	Shallow	6/25/2015	4	25	20	5
RW-119S	TPE	Shallow	6/29/2015	4	26	21	5
SP-01	SP	Deep	10/2/2014	2	35	32	3
SP-02	SP	Deep	9/30/2014	2	36	33	3
SP-03	SP	Deep	6/30/2015	2	36	33	3
SP-04	SP	Deep	7/1/2015	2	36	33	3
SP-05	SP	Deep	7/8/2015	2	36	33	3
SP-06	SP	Deep	6/30/2015	2	36	33	3
SP-07	SP	Deep	6/25/2015	2	36	33	3
SP-08	SP	Deep	7/8/2015	2	36	33	3
SP-09	SP	Deep	4/12/2016	2	21	18	3
SP-10	SP	Deep	4/7/2016	2	24.5	21.5	3
SP-11	SP	Deep	4/11/2016	2	19.5	16.5	3

Table 1

WELL CONSTRUCTION TABLE

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Well type	Aquifer Zone Designation	Date Installed	Well Diameter (in)	Total Depth of Well from Ground Surface (ft)	Length of Casing (ft)	Length of Screen (ft)
SP-12	SP	Deep	4/13/2016	2	19	16	3
SP-13	SP	Deep	4/13/2016	2	19	16	3
SP-14	SP	Deep	4/8/2016	2	18	15	3
SP-15	SP	Deep	4/8/2016	2	15	12	3

Notes:

Field parameters include pH, specififc conductance, temperature, oxidation reduction potential (ORP), dissolved oxygen (DO), headspace carbon dioxide concentration, headspace volatile organic compound concentration, headspace oxygen concentration

Volatile organic compound (VOC) groundwater samples were analyzed for benzene, toluene, ethylbenzene, total xylenes, and naphthalene.

Biostimulation parameters include alkalinity, nitrate nitrogen, manganese, ferrous iron, sulfate as SO_4^{2-}, and methane.

- = Not available
ft = Feet
in = Inches
NA = Not applicable
MW = Monitoring Well
P&T = Pump & Treat Well
SP = Air Sparge Point
TPE = Total Phase Extraction Well
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
VDEQ = Virginia Department of Environmental Quality
DDOE = District Department of the Environment

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-01S	08/08/2014	30.78	22.67	-	-	-	26.58	8.11	-	
	08/11/2014	30.78	22.62	-	-	-	-	8.16	-	
	08/15/2014	30.78	22.60	-	-	-	-	8.18	-	
	08/18/2014	30.78	22.88	-	-	-	-	7.90	-	
	08/25/2014	30.87	22.27	-	-	-	-	8.60	-	
	09/02/2014	30.87	22.28	-	-	-	-	8.59	-	
	09/15/2014	30.87	22.61	-	-	-	-	8.26	-	
	09/22/2014	30.87	22.75	-	-	-	-	8.12	-	
	09/24/2014	30.87	22.95	-	-	-	-	7.92	-	
	10/01/2014	30.87	22.94	-	-	-	26.59	7.93	-	
	10/10/2014	30.87	23.06	-	-	-	-	7.81	-	
	10/20/2014	30.87	23.53	-	-	-	26.58	7.34	-	
	02/24/2015	30.87	25.89	25.74	0.15	-	26.65	5.11	15:24	LNAPL not manually bailed
	02/26/2015	30.87	25.61	25.51	0.10	-	-	5.35	16:10	LNAPL not manually bailed
	03/04/2015	30.87	25.63	25.52	0.11	-	-	5.34	14:21	LNAPL not manually bailed
	03/11/2015	30.87	25.51	25.39	0.12	-	-	5.47	13:00	LNAPL not manually bailed
	03/18/2015	30.87	25.14	25.03	0.11	-	-	5.83	11:19	LNAPL not manually bailed
	03/26/2015	30.87	25.07	24.98	0.09	-	26.60	5.88	10:35	LNAPL not manually bailed
	04/02/2015	30.87	25.06	24.96	0.10	-	26.60	5.90	11:33	LNAPL not manually bailed
	04/08/2015	30.87	25.10	24.96	0.14	-	26.64	5.89	9:27	LNAPL not manually bailed
	04/13/2015	30.87	24.92	24.83	0.09	-	-	6.03	10:35	LNAPL not manually bailed
	04/23/2015	30.87	24.38	24.35	0.03	-	26.55	6.52	12:04	LNAPL not manually bailed
	04/29/2015	30.87	24.38	24.34	0.04	-	26.60	6.53	14:29	LNAPL not manually bailed
	05/04/2015	30.87	24.32	24.28	0.04	-	-	6.59	11:55	LNAPL not manually bailed
	05/11/2015	30.87	24.37	24.31	0.06	-	-	6.55	10:55	LNAPL not manually bailed
	05/21/2015	30.87	24.46	24.41	0.05	-	-	6.45	12:15	LNAPL not manually bailed
	05/28/2015	30.87	24.65	24.54	0.11	-	26.55	6.32	11:50	LNAPL not manually bailed
	06/02/2015	30.87	24.52	24.46	0.06	-	-	6.40	13:16	LNAPL not manually bailed
	06/09/2015	30.87	24.12	24.10	0.02	-	-	6.77	10:43	LNAPL not manually bailed
	06/16/2015	30.87	24.05	24.04	0.01	-	-	6.83	11:37	LNAPL not manually bailed
	06/26/2015	30.87	23.72	-	-	-	26.50	7.15	10:43	LNAPL not manually bailed
	07/01/2015	30.87	23.25	23.24	0.01	-	-	7.63	12:34	LNAPL not manually bailed
	07/08/2015	30.87	22.93	TRACE	TRACE	TRACE	-	7.94	11:50	
	07/13/2015	30.87	22.72	-	-	-	-	8.15	9:42	
	07/20/2015	30.87	22.40	-	-	-	-	8.47	9:37	
	07/28/2015	30.87	22.43	-	-	-	26.69	8.44	10:56	
	08/04/2015	30.87	22.46	22.45	0.01	TRACE	26.56	8.42	10:35	
	08/11/2015	30.87	22.50	TRACE	TRACE	TRACE	26.61	8.37	10:39	
	08/18/2015	30.87	22.63	-	-	-	-	8.24	10:46	
	08/24/2015	30.87	22.69	-	-	-	-	8.18	10:43	
	09/02/2015	30.87	22.90	22.88	0.02	TRACE	26.62	7.99	9:32	
	09/09/2015	30.87	22.96	22.95	0.01	-	26.60	7.92	11:17	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-01S (cont.)	09/17/2015	30.87	23.19	23.18	0.01	-	26.62	7.69	10:58	
	09/23/2015	30.87	23.07	23.06	0.01	TRACE	-	7.81	11:01	
	09/28/2015	30.87	23.10	TRACE	TRACE	-	26.10	7.77	10:08	
	10/05/2015	30.87	23.09	TRACE	TRACE	-	26.60	7.78	11:07	
	11/10/2015	30.87	23.59	-	-	-	-	7.28	13:10	
	12/01/2015	30.87	24.05	24.04	0.01	-	26.57	6.83	12:02	LNAPL not manually bailed
	01/27/2016	30.87	23.98	TRACE	TRACE	-	-	6.89	9:54	LNAPL not manually bailed
	02/15/2016	30.87	23.54	-	-	-	-	7.33	9:40	
	03/14/2016	30.87	23.27	-	-	-	26.60	7.60	11:45	
	03/16/2016	30.87	23.16	-	-	-	26.60	7.71	12:46	
	04/21/2016	30.87	23.48	-	-	-	26.59	7.39	11:05	
	05/23/2016	30.87	23.69	23.68	0.01	-	-	7.19	12:00	
	06/21/2016	30.87	22.93	-	-	-	-	7.94	11:17	
TW-01	12/18/2013	38.31	31.38	-	-	-	-	6.93	-	
	01/08/2014	38.31	31.80	31.79	0.01	-	-	6.52	-	
	03/07/2014	38.31	30.41	-	-	-	-	7.90	-	
	03/13/2014	38.31	31.13	-	-	-	-	7.18	-	
	03/20/2014	38.31	30.36	-	-	-	-	7.95	-	
	03/27/2014	38.31	31.22	-	-	-	-	7.09	-	
	04/03/2014	38.31	30.36	-	-	-	-	7.95	-	
	04/08/2014	38.31	30.21	-	-	-	-	8.10	-	
	04/17/2014	38.31	31.02	-	-	-	-	7.29	-	
	04/22/2014	38.31	30.18	-	-	-	-	8.13	-	
	04/29/2014	38.31	30.22	-	-	-	-	8.09	-	
	05/05/2014	38.31	30.29	-	-	-	-	8.02	-	
	05/12/2014	38.31	30.28	-	-	-	-	8.03	-	
	05/19/2014	38.31	30.16	-	-	-	-	8.15	-	
	06/02/2014	38.31	30.17	-	-	-	-	8.14	-	
	06/09/2014	38.31	30.08	-	-	-	-	8.23	-	
	06/16/2014	38.31	30.23	-	-	-	-	8.08	-	
	06/23/2014	38.31	30.02	-	-	-	-	8.29	-	
	07/02/2014	38.31	29.98	-	-	-	-	8.33	-	
	07/07/2014	38.31	30.16	-	-	-	34.52	8.15	-	
	07/14/2014	38.31	29.89	-	-	-	-	8.42	-	
	07/31/2014	38.31	30.26	-	-	-	34.50	8.05	-	
	08/01/2014	Overdrilled and replaced with MW-05								
MW-05 / RW-05	08/08/2014	31.57	25.41	-	-	-	33.94	6.16	-	
	08/11/2014	31.57	25.16	-	-	-	-	6.41	-	
	08/15/2014	31.57	24.98	-	-	-	-	6.59	-	
	08/16/2014	31.57	24.84	24.80	0.04	NA	-	6.77	-	Transducers in well for pump test

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-05 / RW-05 (cont.)	08/18/2014	31.57	24.88	24.80	0.08	NA	-	6.76	-	Transducers in well for pump test
	08/25/2014	31.57	23.27	22.99	0.28	0.06	-	8.55	-	
	09/02/2014	31.57	23.62	23.07	0.55	0.31	-	8.43	-	
	09/15/2014	31.57	23.63	23.13	0.50	NR	-	8.38	-	
	09/19/2014	31.57	23.72	23.18	0.54	0.17	-	8.32	-	
	09/22/2014	31.57	23.25	22.97	0.28	0.06	-	8.57	-	
	09/24/2014	31.57	23.33	23.13	0.20	NR	-	8.42	-	HIT event
	10/01/2014	31.57	26.67	TRACE	TRACE	TRACE	31.94	4.90	-	
	10/10/2014	31.57	26.58	26.57	0.01	TRACE	-	5.00	-	
	10/13/2014	31.57	26.73	26.71	0.02	TRACE	-	4.86	-	
	10/20/2014	31.57	26.91	26.89	0.02	TRACE	-	4.68	-	
	10/27/2014	31.57	27.07	27.06	0.01	TRACE	-	4.51	-	
	11/07/2014	31.57	26.93	26.88	0.05	TRACE	-	4.68	-	
	11/12/2014	31.57	26.96	26.94	0.02	TRACE	-	4.63	-	
	11/21/2014	31.57	27.74	27.73	0.01	TRACE	-	3.84	-	
	11/26/2014	31.57	27.28	27.25	0.03	TRACE	-	4.32	-	
	12/05/2014	31.57	27.18	27.16	0.02	TRACE	-	4.41	-	
	12/11/2014	31.57	26.93	-	0.00	TRACE	-	4.64	-	
	12/16/2014	31.57	26.87	26.82	0.05	TRACE	-	4.74	-	
	12/23/2014	31.57	26.95	26.92	0.03	TRACE	-	4.65	-	
	12/30/2014	31.57	27.35	27.32	0.03	TRACE	-	4.25	-	
	01/09/2015	31.57	27.36	27.32	0.04	TRACE	-	4.25	-	
	01/16/2015	31.57	27.06	27.02	0.04	TRACE	-	4.55	-	
	01/19/2015	31.57	27.08	27.03	0.05	TRACE	-	4.53	-	
	01/26/2015	31.57	26.99	26.95	0.04	TRACE	-	4.62	-	
	02/03/2015	31.57	27.73	27.71	0.02	-	32.04	3.86	-	LNAPL not manually bailed
	02/09/2015	31.57	27.23	27.17	0.06	-	-	4.39	-	LNAPL not manually bailed
	02/18/2015	31.57	27.25	27.21	0.04	-	-	4.36	-	LNAPL not manually bailed
	02/24/2015	31.57	27.38	27.37	0.01	TRACE	-	4.20	13:51	
	03/04/2015	31.57	27.25	27.20	0.05	-	-	4.36	14:18	LNAPL not manually bailed
	03/11/2015	31.57	27.07	26.97	0.10	-	-	4.59	12:57	LNAPL not manually bailed
	03/18/2015	31.57	27.11	27.03	0.08	-	-	4.53	11:15	LNAPL not manually bailed
	03/26/2015	31.57	26.81	26.73	0.08	-	31.90	4.83	12:06	LNAPL not manually bailed
	04/02/2015	31.57	27.13	26.97	0.16	-	31.95	4.58	11:37	LNAPL not manually bailed
	04/08/2015	31.57	27.49	27.20	0.29	-	32.00	4.33	9:20	LNAPL not manually bailed
	04/13/2015	31.57	27.53	27.07	0.46	-	-	4.44	10:51	LNAPL not manually bailed
	04/23/2015	31.57	27.41	26.55	0.86	-	32.00	4.92	12:10	LNAPL not manually bailed
	04/29/2015	31.57	27.78	26.61	1.17	-	31.90	4.82	14:39	LNAPL not manually bailed
	05/04/2015	31.57	28.03	26.56	1.47	-	-	4.83	11:51	LNAPL not manually bailed
	05/11/2015	31.57	28.24	26.40	1.84	-	-	4.95	15:10	LNAPL not manually bailed
	05/13/2015	31.57	28.75	26.84	1.91	1.50	-	4.50	13:20	
	05/21/2015	31.57	26.87	26.78	0.09	-	-	4.78	12:48	LNAPL not manually bailed

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-05 / RW-05 (cont.)	05/28/2015	31.57	28.45	27.00	1.45	-	32.00	4.39	11:54	LNAPL not manually bailed
	06/02/2015	31.57	28.52	26.62	1.90	-	-	4.72	13:11	LNAPL not manually bailed
	06/09/2015	31.57	28.67	26.12	2.55	-	-	5.14	10:55	LNAPL not manually bailed
	06/16/2015	31.57	29.17	25.86	3.31	-	-	5.31	11:48	LNAPL not manually bailed
	06/26/2015	31.57	28.51	25.55	2.96	-	32.00	5.66	10:50	LNAPL not manually bailed
	07/01/2015	31.57	27.93	24.65	3.28	-	-	6.52	12:39	LNAPL not manually bailed
	07/08/2015	31.57	27.50	23.75	3.75	-	-	7.36	8:00	Baildown test
	07/13/2015	31.57	24.16	22.98	1.18	-	-	8.45	8:10	HIT event
	07/20/2015	31.57	23.03	22.69	0.34	0.09	-	8.84	9:56	
	07/28/2015	31.57	22.75	22.55	0.20	0.09	32.07	9.00	12:40	
	08/04/2015	31.57	22.92	22.63	0.29	0.06	-	8.90	12:31	
	08/11/2015	31.57	23.57	22.60	0.97	0.09	32.05	8.85	10:43	
	08/18/2015	31.57	23.74	23.02	0.72	0.38	-	8.46	10:56	
	08/21/2015	31.57	23.46	23.15	0.31	-	-	8.38	7:55	HIT event
	08/24/2015	31.57	23.88	23.86	0.02	TRACE	-	7.71	11:00	
	09/02/2015	31.57	24.72	24.44	0.28	0.05	32.04	7.10	11:00	
	09/09/2015	31.57	24.60	24.39	0.21	0.06	32.05	7.15	11:20	
	09/17/2015	31.57	24.83	24.36	0.47	0.07	32.08	7.15	11:00	
	09/23/2015	31.57	24.88	24.70	0.18	0.02	-	6.85	11:23	
	09/28/2015	31.57	24.50	24.48	0.02	0.04	31.94	7.09	10:05	
	10/05/2015	31.57	24.41	24.31	0.10	0.05	32.01	7.25	-	
	11/10/2015	31.57	25.53	25.38	0.15	-	-	6.17	13:44	LNAPL not manually bailed
	12/01/2015	31.57	26.16	25.98	0.18	-	-	5.57	13:56	LNAPL not manually bailed
	01/27/2016	31.57	26.56	26.34	0.22	-	-	5.20	10:44	pump in well
	02/15/2016	31.57	26.99	26.98	0.01	-	-	4.59	10:31	pump in well
	03/14/2016	31.57	25.65	TRACE	TRACE	-	-	5.92	10:20	pump in well
	03/24/2016	31.57	29.70	-	-	-	-	1.87	-	O&M event
	03/30/2016	31.57	29.68	-	-	-	-	1.89	-	O&M event
	04/21/2016	31.57	29.65	-	-	-	-	1.92	10:34	
	05/23/2016	31.57	29.80	-	-	-	-	1.77	11:27	
	06/21/2016	31.57	29.79	-	-	-	-	1.78	10:50	
TW-09S	12/18/2013	36.65	DRY	-	-	-	-	-	-	
	01/08/2014	36.65	DRY	25.54	0.46	0.10	-	-	-	
	03/07/2014	36.65	24.71	24.70	0.01	-	-	11.95	-	
	03/13/2014	36.65	25.78	24.71	1.07	0.10	-	11.81	-	
	03/20/2014	36.65	DRY	25.65	0.50	0.10	-	-	-	
	03/27/2014	36.65	DRY	25.58	0.54	0.10	-	-	-	
	04/03/2014	36.65	23.37	23.18	0.19	0.10	-	13.45	-	
	04/08/2014	36.65	23.39	23.23	0.16	0.10	-	13.40	-	
	04/17/2014	36.65	23.72	23.66	0.06	-	-	12.99	-	
	04/22/2014	36.65	23.53	23.40	0.13	0.10	-	13.24	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-09S (cont.)	04/29/2014	36.65	23.76	23.68	0.08	-	-	12.96	-	
	05/05/2014	36.65	23.23	23.17	0.06	-	-	13.48	-	
	05/12/2014	36.65	23.25	23.23	0.02	-	-	13.42	-	
	05/19/2014	36.65	23.17	23.16	0.01	-	-	13.49	-	
	06/02/2014	36.65	23.19	-	-	-	-	13.46	-	
	06/09/2014	36.65	23.17	-	-	-	-	13.48	-	
	06/16/2014	36.65	23.13	-	-	-	-	13.52	-	
	06/23/2014	36.65	23.11	-	-	-	-	13.54	-	
	07/02/2014	36.65	23.03	TRACE	TRACE	TRACE	-	13.62	-	
	07/07/2014	36.65	23.01	-	-	-	26.15	13.64	-	
	07/14/2014	36.65	23.02	-	-	-	-	13.63	-	
	07/23/2014	Overdrilled and replaced with MW-08S								
MW-08S	07/24/2014	30.86	26.59	-	-	-	-	4.27	-	
	07/31/2014	30.86	22.08	-	-	-	24.35	8.78	-	
	08/08/2014	30.86	21.33	-	-	-	24.64	9.53	-	
	08/11/2014	30.86	21.42	-	-	-	-	9.44	-	
	08/15/2014	30.86	21.41	-	-	-	-	9.45	-	
	08/18/2014	30.86	21.46	-	-	-	-	9.40	-	
	08/25/2014	30.86	21.49	-	-	-	-	9.37	-	
	09/02/2014	30.86	21.45	-	-	-	-	9.41	-	
	09/15/2014	30.86	21.58	-	-	-	-	9.28	-	
	09/22/2014	30.86	21.67	-	-	-	-	9.19	-	
	09/24/2014	30.86	21.68	-	-	-	-	9.18	-	
	10/01/2014	30.86	21.67	-	-	-	24.66	9.19	-	
	10/10/2014	30.86	21.71	-	-	-	-	9.15	-	
	10/13/2014	30.86	21.72	-	-	-	-	9.14	-	
	10/20/2014	30.86	21.80	-	-	-	24.65	9.06	-	
	10/27/2014	30.86	21.88	-	-	-	-	8.98	-	
	11/07/2014	30.86	21.84	-	-	-	-	9.02	-	
	11/12/2014	30.86	21.94	-	-	-	-	8.92	-	
	11/21/2014	30.86	21.99	-	-	-	-	8.87	-	
	11/26/2014	30.86	22.01	-	-	-	-	8.85	-	
	12/05/2014	30.86	22.03	-	-	-	-	8.83	-	
	12/11/2014	30.86	22.03	-	-	-	-	8.83	-	
	12/16/2014	30.86	22.04	-	-	-	-	8.82	-	
	12/23/2014	30.86	22.07	-	-	-	-	8.79	-	
	12/30/2014	30.86	22.10	-	-	-	-	8.76	-	
	01/09/2015	30.86	22.12	-	-	-	-	8.74	-	
	01/16/2015	30.86	22.05	-	-	-	-	8.81	-	
	01/19/2015	30.86	22.01	-	-	-	-	8.85	-	
	01/26/2015	30.86	22.08	-	-	-	-	8.78	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-08S (cont.)	02/03/2015	30.86	22.15	-	-	-	24.72	8.71	-	
	02/09/2015	30.86	22.14	-	-	-	-	8.72	-	
	02/18/2015	30.86	22.15	-	-	-	-	8.71	-	
	02/24/2015	30.86	22.15	-	-	-	24.64	8.71	15:48	
	03/04/2015	30.86	21.34	-	-	-	-	9.52	14:15	
	03/11/2015	30.86	21.80	-	-	-	-	9.06	12:45	
	03/18/2015	30.86	21.88	-	-	-	-	8.98	11:05	
	03/26/2015	30.86	22.05	-	-	-	24.70	8.81	11:40	
	04/02/2015	30.86	22.03	-	-	-	24.60	8.83	11:25	
	04/08/2015	30.86	22.07	-	-	-	24.68	8.79	8:50	
	04/13/2015	30.86	22.08	-	-	-	-	8.78	10:41	
	04/23/2015	30.86	22.08	-	-	-	24.65	8.78	11:55	
	04/29/2015	30.86	22.09	-	-	-	24.60	8.77	14:22	
	05/04/2015	30.86	22.09	-	-	-	-	8.77	11:39	
	05/11/2015	30.86	22.10	-	-	-	24.70	8.76	9:50	
	05/21/2015	30.86	22.05	-	-	-	24.65	8.81	12:22	
	05/28/2015	30.86	22.11	-	-	-	24.60	8.75	11:45	
	06/02/2015	30.86	22.06	-	-	-	-	8.80	13:04	
	06/09/2015	30.86	22.05	-	-	-	-	8.81	10:30	
	06/16/2015	30.86	22.05	-	-	-	-	8.81	11:24	
	06/26/2015	30.86	21.98	-	-	-	24.50	8.88	10:40	
	07/01/2015	30.86	22.02	-	-	-	-	8.84	12:15	
	07/08/2015	30.86	22.01	-	-	-	-	8.85	11:18	
	07/13/2015	30.86	21.95	-	-	-	-	8.91	9:26	
	07/20/2015	30.86	21.75	-	-	-	-	9.11	9:16	
	07/28/2015	30.86	21.08	-	-	-	24.75	9.78	11:46	
	07/28/2015	30.86	21.08	-	-	-	24.75	9.78	11:46	
	08/04/2015	30.86	21.05	-	-	-	24.30	9.81	9:39	
	08/11/2015	30.86	21.15	-	-	-	24.69	9.71	10:18	
	08/18/2015	30.86	21.24	-	-	-	-	9.62	10:16	
	08/24/2015	30.86	21.32	-	-	-	-	9.54	10:26	
	09/02/2015	30.86	21.32	-	-	-	24.66	9.54	11:10	
	09/09/2015	30.86	21.50	-	-	-	24.71	9.36	10:15	
	09/17/2015	30.86	21.61	-	-	-	24.74	9.25	10:17	
	09/23/2015	30.86	21.63	-	-	-	-	9.23	10:40	
	09/28/2015	30.86	21.68	-	-	-	24.69	9.18	9:22	
	10/05/2015	30.86	21.75	-	-	-	24.70	9.11	9:23	
	11/10/2015	30.86	21.95	-	-	-	-	8.91	13:13	
	12/01/2015	30.86	22.00	-	-	-	24.66	8.86	10:43	
	01/27/2016	30.86	21.98	-	-	-	-	8.88	10:33	
	02/15/2016	30.86	21.83	-	-	-	-	9.03	10:14	
	03/14/2016	30.86	21.72	-	-	-	25.62	9.14	11:04	

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GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-08S (cont.)	03/16/2016	30.86	21.72	-	-	-	24.65	9.14	12:42	
	04/21/2016	30.86	22.21	-	-	-	24.65	8.65	12:11	
	05/23/2016	30.86	25.03	-	-	-	25.48	5.83	11:00	
	05/24/2016	30.86	22.05	-	-	-	24.68	8.81	10:11	
	06/21/2016	30.86	22.18	-	-	-	-	8.68	10:56	
MW-10S / RW-10S	08/08/2014	31.24	22.40	-	-	-	26.51	8.84	-	
	08/11/2014	31.24	22.41	-	-	-	-	8.83	-	
	08/15/2014	31.24	22.02	-	-	-	-	9.22	-	
	08/18/2014	31.24	22.03	-	-	-	-	9.21	-	
	08/25/2014	31.24	22.06	-	-	-	-	9.18	-	
	09/02/2014	31.24	22.11	-	-	-	-	9.13	-	
	09/15/2014	31.24	22.15	-	-	-	-	9.09	-	
	09/22/2014	31.24	22.18	-	-	-	-	9.06	-	
	09/24/2014	31.24	22.19	-	-	-	-	9.05	-	HIT event
	10/01/2014	31.24	22.22	-	-	-	26.09	9.02	-	
	10/10/2014	31.24	22.18	TRACE	TRACE	-	-	9.06	-	
	10/13/2014	31.24	22.21	-	-	-	-	9.03	-	
	10/20/2014	31.24	22.35	-	-	-	26.10	8.89	-	
	10/27/2014	31.24	22.32	-	-	-	-	8.92	-	
	11/07/2014	31.24	22.30	-	-	-	-	8.94	-	
	11/12/2014	31.24	22.32	-	-	-	-	8.92	-	
	11/21/2014	31.24	22.38	-	-	-	-	8.86	-	
	11/26/2014	31.24	22.35	-	-	-	-	8.89	-	
	12/05/2014	31.24	22.40	22.38	0.02	TRACE	-	8.86	-	
	12/11/2014	31.24	22.33	TRACE	TRACE	-	-	8.91	-	
	12/16/2014	31.24	22.36	TRACE	TRACE	-	-	8.88	-	
	12/23/2014	31.24	22.37	-	-	-	-	8.87	-	
	12/30/2014	31.24	22.42	TRACE	TRACE	-	-	8.82	-	
	01/09/2015	31.24	22.44	22.43	0.01	TRACE	-	8.81	-	
	01/16/2015	31.24	22.41	22.40	0.01	TRACE	-	8.84	-	
	01/19/2015	31.24	22.43	22.42	0.01	TRACE	-	8.82	-	
	01/26/2015	31.24	22.23	22.22	0.01	TRACE	-	9.02	-	
	02/03/2015	31.24	22.50	-	-	-	26.11	8.74	-	
	02/09/2015	31.24	22.43	22.42	0.01	-	-	8.82	-	LNAPL not manually bailed
	02/18/2015	31.24	22.44	22.43	0.01	-	-	8.81	-	LNAPL not manually bailed
	02/24/2015	31.24	22.50	22.49	0.01	-	26.11	8.75	15:44	LNAPL not manually bailed
	03/04/2015	31.24	22.50	22.48	0.02	-	-	8.76	14:28	LNAPL not manually bailed
	03/11/2015	31.24	22.51	22.48	0.03	-	-	8.76	12:54	LNAPL not manually bailed
	03/18/2015	31.24	22.56	22.52	0.04	-	-	8.72	11:23	LNAPL not manually bailed
	03/26/2015	31.24	22.53	22.50	0.03	-	26.10	8.74	11:27	LNAPL not manually bailed
	04/02/2015	31.24	22.55	22.51	0.04	-	26.05	8.73	11:52	LNAPL not manually bailed

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-10S / RW-10S (cont.)	04/08/2015	31.24	22.53	22.52	0.01	-	26.10	8.72	9:05	LNAPL not manually bailed
	04/13/2015	31.24	22.56	22.53	0.03	-	-	8.71	10:59	LNAPL not manually bailed
	04/23/2015	31.24	22.53	22.51	0.02	-	26.05	8.73	12:22	LNAPL not manually bailed
	04/29/2015	31.24	23.53	23.50	0.03	-	26.00	7.74	14:43	LNAPL not manually bailed
	05/04/2015	31.24	22.57	22.54	0.03	-	-	8.70	11:59	LNAPL not manually bailed
	05/11/2015	31.24	22.86	22.84	0.02	-	26.10	8.40	10:00	LNAPL not manually bailed
	05/21/2015	31.24	22.59	22.56	0.03	-	-	8.68	12:46	LNAPL not manually bailed
	05/28/2015	31.24	22.60	22.56	0.04	-	26.00	8.68	12:01	LNAPL not manually bailed
	06/02/2015	31.24	22.60	22.56	0.04	-	-	8.68	13:20	LNAPL not manually bailed
	06/09/2015	31.24	22.54	22.53	0.01	-	-	8.71	10:40	LNAPL not manually bailed
	06/19/2015	31.24	22.54	22.53	0.01	-	-	8.71	11:34	LNAPL not manually bailed
	06/26/2015	31.24	22.61	22.54	0.07	-	26.00	8.69	11:26	LNAPL not manually bailed
	07/01/2015	31.24	22.58	22.52	0.06	-	-	8.71	12:26	LNAPL not manually bailed
	07/08/2015	31.24	22.54	22.49	0.05	TRACE	-	8.74	11:57	LNAPL not manually bailed
	07/13/2015	31.24	21.96	-	-	-	-	9.28	9:44	
	07/20/2015	31.24	21.48	-	-	-	-	9.76	9:13	
	07/28/2015	31.24	21.36	-	-	-	26.11	9.88	10:39	
	08/05/2015	31.24	21.51	21.42	0.09	-	-	9.81	9:24	
	08/11/2015	31.24	21.49	TRACE	TRACE	TRACE	26.15	9.75	10:22	
	08/18/2015	31.24	21.76	21.59	0.17	0.02	-	9.63	10:40	
	08/24/2015	31.24	21.80	21.68	0.12	0.01	-	9.55	10:50	
	09/02/2015	31.24	21.95	21.81	0.14	0.01	26.10	9.41	10:00	
	09/09/2015	31.24	22.05	21.91	0.14	0.02	26.11	9.31	11:08	
	09/17/2015	31.24	22.10	22.00	0.10	TRACE	-	9.23	10:35	
	09/23/2015	31.24	22.06	22.02	0.04	TRACE	-	9.22	11:10	
	09/28/2015	31.24	22.14	22.07	0.07	TRACE	26.10	9.16	10:00	
	10/05/2015	31.24	22.12	-	-	-	26.10	9.12	9:26	
	11/10/2015	31.24	24.00	TRACE	TRACE	-	-	7.24	13:25	LNAPL not manually bailed
	12/01/2015	33.02	24.10	-	-	-	27.85	8.92	10:53	
	01/27/2016	33.02	24.18	TRACE	TRACE	-	-	8.84	10:52	LNAPL not manually bailed
	02/15/2016	33.02	24.37	24.36	0.01	-	-	8.66	10:35	LNAPL not manually bailed
	03/14/2016	33.02	24.07	-	-	-	27.87	8.95	12:50	
	04/21/2016	33.02	25.99	25.95	0.04	-	-	7.07	11:27	LNAPL not manually bailed
	05/23/2016	33.02	25.55	-	-	-	27.90	7.47	11:40	
	05/24/2016	33.02	25.57	-	-	-	27.89	7.45	10:00	
	06/21/2016	33.02	25.62	-	-	-	-	7.40	10:40	
MW-11	07/25/2014	30.85	26.90	-	-	-	33.40	3.95	-	
	08/08/2014	30.85	26.76	-	-	-	34.00	4.09	-	
	08/11/2014	30.85	26.57	-	-	-	-	4.28	-	
	08/15/2014	30.85	27.15	-	-	-	-	3.70	-	
	08/16/2014	30.85	26.81	-	-	-	34.00	4.04	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-11 (cont.)	08/18/2014	30.85	26.77	-	-	-	-	4.08	-	
	08/25/2014	30.85	26.43	-	-	-	-	4.42	-	
	09/02/2014	30.85	26.83	-	-	-	-	4.02	-	
	09/15/2014	30.85	26.75	-	-	-	-	4.10	-	
	09/22/2014	30.85	26.64	-	-	-	-	4.21	-	
	09/24/2014	30.85	27.08	-	-	-	-	3.77	-	
	10/01/2014	30.85	26.87	-	-	-	34.02	3.98	-	
	10/13/2014	30.85	26.86	-	-	-	-	3.99	-	
	10/20/2014	30.85	26.96	-	-	-	33.99	3.89	-	
	02/24/2015	30.85	27.03	-	-	-		3.82	13:39	
	02/26/2015	30.85	27.07	-	-	-	34.00	3.78	10:18	
	03/04/2015	30.85	26.95	-	-	-	-	3.90	14:09	
	03/11/2015	30.85	26.58	-	-	-	-	4.27	12:39	
	03/18/2015	30.85	26.74	-	-	-	-	4.11	10:59	
	03/26/2015	30.85	26.56	-	-	-	33.90	4.29	11:22	
	04/02/2015	30.85	26.69	-	-	-	33.90	4.16	11:12	
	04/08/2015	30.85	27.00	-	-	-	33.82	3.85	9:25	
	04/13/2015	30.85	26.88	-	-	-	-	3.97	10:32	
	04/23/2015	30.85	26.40	-	-	-	33.85	4.45	11:40	
	04/29/2015	30.85	26.56	-	-	-	33.80	4.29	14:09	
	05/04/2015	30.85	26.39	-	-	-		4.46	11:33	
	05/11/2015	30.85	26.35	-	-	-	33.80	4.50	15:05	
	05/21/2015	30.85	26.88	-	-	-	33.90	3.97	12:12	
	05/28/2015	30.85	26.83	-	-	-	33.80	4.02	11:38	
	06/02/2015	30.85	26.50	-	-	-	-	4.35	12:58	
	06/09/2015	30.85	26.23	-	-	-	-	4.62	10:24	
	06/16/2015	30.85	26.28	-	-	-	-	4.57	11:18	
	06/26/2015	30.85	26.22	-	-	-	33.80	4.63	10:32	
	07/01/2015	30.85	25.73	-	-	-	-	5.12	12:09	
	08/04/2015	30.85	25.94	-	-	-	33.86	4.91	12:13	
	08/05/2015	30.85	26.31	-	-	-	33.84	4.54	8:46	
	09/28/2015	30.85	25.92	25.90	0.02	-	33.92	4.95	9:58	
	10/05/2015	30.85	25.72	-	-	-	33.92	5.13	9:29	
	11/10/2015	30.85	26.35	-	-	-	-	4.50	13:23	
	12/01/2015	30.85	26.48	-	-	-	33.92	4.37	13:38	
	01/27/2016	30.85	26.68	-	-	-	-	4.17	10:31	
	02/15/2016	30.85	27.03	-	-	-	-	3.82	10:03	
	03/14/2016	30.85	26.63	-	-	-	34.06	4.22	8:30	
	04/21/2016	30.85	26.97	-	-	-	-	3.88	10:04	
	05/23/2016	30.85	27.68	-	-	-	32.83	3.17	9:59	
	06/21/2016	30.85	26.03	-	-	-	-	4.82	10:36	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-13	12/18/2013	36.99	30.09	-	-	-	-	6.90	-	
	01/08/2014	36.99	30.45	-	-	-	-	6.54	-	
	03/07/2014	36.99	29.11	-	-	-	-	7.88	-	
	03/13/2014	36.99	29.91	-	-	-	-	7.08	-	
	03/20/2014	36.99	29.09	-	-	-	-	7.90	-	
	03/27/2014	36.99	29.98	-	-	-	-	7.01	-	
	04/03/2014	36.99	29.05	-	-	-	-	7.94	-	
	04/08/2014	36.99	29.98	-	-	-	-	7.01	-	
	04/17/2014	36.99	29.62	-	-	-	-	7.37	-	
	04/22/2014	36.99	28.93	-	-	-	-	8.06	-	
	04/29/2014	36.99	28.90	-	-	-	-	8.09	-	
	05/05/2014	36.99	29.95	-	-	-	-	7.04	-	
	05/12/2014	36.99	28.91	-	-	-	-	8.08	-	
	05/19/2014	36.99	28.87	-	-	-	-	8.12	-	
	06/02/2014	36.99	28.86	-	-	-	-	8.13	-	
	06/09/2014	36.99	28.73	-	-	-	-	8.26	-	
	06/16/2014	36.99	28.88	-	-	-	-	8.11	-	
	06/23/2014	36.99	28.65	-	-	-	-	8.34	-	
	07/02/2014	36.99	28.69	-	-	-	-	8.30	-	
	07/07/2014	36.99	28.91	-	-	-	35.02	8.08	-	
	07/14/2014	36.99	28.58	-	-	-	-	8.41	-	
	07/29/2014	Overdrilled and replaced with MW-14								
MW-14	07/31/2014	31.22	28.04	-	-	-	38.15	3.18	-	
	08/08/2014	31.22	28.21	-	-	-	38.14	3.01	-	
	08/11/2014	31.22	27.81	-	-	-	-	3.41	-	
	08/15/2014	31.22	27.43	-	-	-	-	3.79	-	
	08/18/2014	31.22	27.17	-	-	-	-	4.05	-	
	08/25/2014	31.22	26.83	-	-	-	-	4.39	-	
	09/02/2014	31.22	27.25	-	-	-	-	3.97	-	
	09/15/2014	31.22	27.15	-	-	-	-	4.07	-	
	09/22/2014	31.22	27.04	-	-	-	-	4.18	-	
	10/01/2014	31.22	27.23	-	-	-	37.28	3.99	-	
	10/13/2014	31.22	27.25	TRACE	TRACE	-	-	3.97	-	
	10/20/2014	31.22	27.32	-	-	-	37.30	3.90	-	
	02/24/2015	31.22	27.42	-	-	-	37.31	3.80	13:40	
	02/25/2015	31.22	27.46	-	-	-	37.31	3.76	10:47	
	03/04/2015	31.22	27.39	-	-	-	-	3.83	14:06	
	03/11/2015	31.22	26.94	-	-	-	-	4.28	12:36	
	03/18/2015	31.22	27.13	-	-	-	-	4.09	10:56	
	03/26/2015	31.22	26.92	-	-	-	37.30	4.30	11:19	
	04/02/2015	31.22	27.04	-	-	-	37.25	4.18	11:08	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-14 (cont.)	04/08/2015	31.22	27.30	-	-	-	37.21	3.92	9:26	
	04/13/2015	31.22	27.30	-	-	-	-	3.92	10:55	
	04/23/2015	31.22	26.72	-	-	-	37.25	4.50	11:37	
	04/29/2015	31.22	26.94	-	-	-	37.25	4.28	14:06	
	05/04/2015	31.22	26.77	-	-	-		4.45	11:30	
	05/11/2015	31.22	26.71	-	-	-	37.37	4.51	14:52	
	05/12/2015	31.22	27.08	-	-	-		4.14	12:15	
	05/21/2015	31.22	26.93	-	-	-	37.33	4.29	12:10	
	05/28/2015	31.22	27.25	-	-	-	37.25	3.97	11:36	
	06/02/2015	31.22	26.92	-	-	-	-	4.30	12:55	
	06/09/2015	31.22	26.67	-	-	-	-	4.55	10:21	
	06/16/2015	31.22	26.73	-	-	-	-	4.49	11:15	
	06/26/2015	31.22	26.65	-	-	-	37.30	4.57	10:30	
	07/01/2015	31.22	26.12	-	-	-	-	5.10	12:06	
	08/04/2015	31.22	26.26	-	-	-	37.28	4.96	12:09	
	08/05/2015	31.22	26.75	SHEEN	-	-	37.27	4.47	8:50	
	12/01/2015	31.22	26.88	-	-	-	37.30	4.34	13:35	
	03/14/2016	31.22	26.93	-	-	-	37.30	4.29	8:55	
	04/21/2016	31.22	28.05	27.42	0.63	0.75	-	3.72	9:33	bailed 0.75 gallon of product
	05/05/2016	31.22	29.03	28.20	0.83	-	-	2.92	13:00	
	05/23/2016	31.22	26.82	26.81	0.01	-	-	4.41	11:54	
	06/21/2016	31.22	28.18	27.77	0.41	0.06	-	3.40	10:26	bailed 8 ounces of product
MW-15S	08/08/2014	31.03	26.11	-	-	-	26.20	4.92	-	
	08/11/2014	31.03	26.11	-	-	-	-	4.92	-	
	08/15/2014	31.03	24.00	-	-	-	-	7.03	-	
	08/18/2014	31.03	24.67	-	-	-	-	6.36	-	
	08/25/2014	31.03	24.82	-	-	-	-	6.21	-	
	09/02/2014	31.03	24.82	-	-	-	-	6.21	-	
	09/15/2014	31.03	24.96	-	-	-	-	6.07	-	
	09/22/2014	31.03	25.06	-	-	-	-	5.97	-	
	10/01/2014	31.03	25.20	-	-	-	25.88	5.83	-	
	10/13/2014	31.03	26.37	-	-	-	-	4.66	-	
	10/20/2014	31.03	25.45	-	-	-	25.90	5.58	-	
	05/11/2015	31.03	25.33	-	-	-	26.00	5.70	9:10	
	05/12/2015	31.03	25.35	-	-	-	-	5.68	12:10	
	08/04/2015	31.03	22.16	-	-	-	25.90	8.87	9:47	
	12/01/2015	31.03	25.46	-	-	-	25.88	5.57	11:03	
	03/14/2016	31.03	25.58	-	-	-	26.00	5.45	8:55	
	05/23/2016	31.03	25.29	-	-	-	26.00	5.74	11:08	
MW-16S	08/15/2014	31.03	24.13	-	-	-	24.61	6.90	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-16S (cont.)	08/16/2014	31.03	24.12	-	-	-	24.48	6.91	-	
	08/18/2014	31.03	24.13	-	-	-	-	6.90	-	
	08/25/2014	31.03	24.24	-	-	-	-	6.79	-	
	09/02/2014	31.03	DRY	-	-	-	24.65	-	-	
	09/15/2014	31.03	DRY	-	-	-	24.64	-	-	
	09/22/2014	31.03	DRY	-	-	-	-	-	-	
	10/01/2014	31.03	DRY	-	-	-	24.64	-	-	
	10/10/2014	31.03	DRY	-	-	-	-	-	-	
	10/20/2014	31.03	DRY	-	-	-	24.64	-	-	
	02/24/2015	31.03	DRY	-	-	-	24.70	-	15:36	
	05/11/2015	31.03	DRY	-	-	-	24.70	-	10:15	
	08/04/2015	31.03	22.63	-	-	-	24.62	8.40	9:54	
	12/01/2015	31.03	DRY	-	-	-	24.64	-	11:07	
	03/14/2016	31.03	DRY	-	-	-	24.70	-	8:45	
	05/23/2016	31.03	DRY	-	-	-	24.82	-	11:15	
MW-16	08/15/2014	30.97	26.78	-	-	-	35.74	4.19	-	
	08/18/2014	30.97	26.73	-	-	-	-	4.24	-	
	08/25/2014	30.97	26.55	-	-	-	-	4.42	-	
	09/02/2014	30.97	26.91	-	-	-	-	4.06	-	
	09/15/2014	30.97	26.76	-	-	-	-	4.21	-	
	09/22/2014	30.97	26.80	-	-	-	-	4.17	-	
	10/01/2014	30.97	26.95	-	-	-	35.53	4.02	-	
	10/10/2014	30.97	26.85	-	-	-	-	4.12	-	
	10/20/2014	30.97	27.19	-	-	-	35.61	3.78	-	
	02/24/2015	30.97	27.25	-	-	-	35.61	3.72	13:34	
	02/25/2015	30.97	27.23	-	-	-	35.62	3.74	11:14	
	05/11/2015	30.97	26.43	-	-	-	35.60	4.54	14:50	
	05/12/2015	30.97	26.90	-	-	-	-	4.07	9:52	
	08/04/2015	30.97	24.75	-	-	-	35.55	6.22	12:06	
	08/05/2015	30.97	25.04	-	-	-	35.53	5.93	9:51	
	12/01/2015	30.97	26.55	-	-	-	27.90	4.42	13:30	
	03/14/2016	30.97	26.67	-	-	-	35.55	4.30	9:00	
	05/23/2016	30.97	26.65	-	-	-	35.82	4.32	10:35	
MW-25S	08/08/2014	31.07	23.64	-	-	-	25.80	7.43	-	
	08/11/2014	31.07	22.35	-	-	-	-	8.72	-	
	08/15/2014	31.07	21.94	-	-	-	-	9.13	-	
	08/18/2014	31.07	21.95	-	-	-	-	9.12	-	
	08/25/2014	31.07	21.98	-	-	-	-	9.09	-	
	09/02/2014	31.07	21.99	-	-	-	-	9.08	-	
	09/15/2014	31.07	22.04	-	-	-	-	9.03	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-25S (cont.)	09/22/2014	31.07	22.50	-	-	-	-	8.57	-	
	09/24/2014	31.07	22.12	TRACE	TRACE	-	-	8.95	-	
	10/01/2014	31.07	22.07	-	-	-	25.47	9.00	-	
	10/10/2014	31.07	22.09	TRACE	TRACE	-	-	8.98	-	
	10/13/2014	31.07	22.13	22.11	0.02	TRACE	-	8.96	-	
	10/20/2014	31.07	22.19	22.18	0.01	TRACE	-	8.89	-	
	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98	-	
	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98	-	
	11/07/2014	31.07	22.08	22.07	0.01	TRACE	-	9.00	-	
	11/12/2014	31.07	22.28	22.10	0.18	0.06	-	8.95	-	
	11/21/2014	31.07	22.43	22.18	0.25	0.09	-	8.86	-	
	11/26/2014	31.07	22.37	22.17	0.20	0.06	-	8.88	-	
	12/05/2014	31.07	22.57	22.20	0.37	-	25.50	8.82	-	HIT event
	12/11/2014	31.07	22.22	22.21	0.01	TRACE	-	8.86	-	
	12/16/2014	31.07	22.38	22.11	0.27	0.03	-	8.93	-	
	12/23/2014	31.07	22.43	22.13	0.30	0.05	-	8.90	-	
	12/30/2014	31.07	22.50	22.20	0.30	0.04	-	8.83	-	
	01/09/2015	31.07	22.49	22.19	0.30	-	-	8.84	-	HIT event
	01/16/2015	31.07	22.60	22.48	0.12	0.01	-	8.58	-	
	01/19/2015	31.07	22.34	22.25	0.09	0.01	-	8.81	-	
	01/26/2015	31.07	22.30	22.16	0.14	0.02		8.89	-	
	02/03/2015	31.07	22.25	-	-	-	25.50	8.82	-	
	02/09/2015	31.07	22.31	22.14	0.17	-	-	8.91	-	LNAPL not manually bailed
	02/18/2015	31.07	22.37	22.18	0.19	-	-	8.87	-	LNAPL not manually bailed
	02/24/2015	31.07	22.59	22.28	0.31	-	-	8.75	14:03	LNAPL not manually bailed
	03/04/2015	31.07	22.48	22.30	0.18	-	-	8.75	14:31	LNAPL not manually bailed
	03/11/2015	31.07	22.50	22.30	0.20	-	-	8.75	13:04	LNAPL not manually bailed
	03/18/2015	31.07	22.46	22.23	0.23	-	-	8.81	11:26	LNAPL not manually bailed
	03/26/2015	31.07	22.35	22.17	0.18	-	25.50	8.88	11:59	LNAPL not manually bailed
	04/02/2015	31.07	22.40	22.18	0.22	-	25.45	8.86	12:06	LNAPL not manually bailed
	04/08/2015	31.07	22.40	22.08	0.32	-	25.47	8.95	9:15	LNAPL not manually bailed
	04/13/2015	31.07	22.50	22.22	0.28	-	-	8.82	11:03	LNAPL not manually bailed
	04/23/2015	31.07	22.39	22.16	0.23	-	25.50	8.88	12:25	LNAPL not manually bailed
	04/29/2015	31.07	22.35	22.12	0.23	-	25.50	8.92	14:48	LNAPL not manually bailed
	05/04/2015	31.07	22.47	22.19	0.28	-	-	8.85	12:04	LNAPL not manually bailed
	05/11/2015	31.07	22.45	22.20	0.25	-	-	8.84	11:00	LNAPL not manually bailed
	05/21/2015	31.07	22.40	22.23	0.17	-	-	8.82	12:53	LNAPL not manually bailed
	05/28/2015	31.07	22.60	22.27	0.33	-	25.50	8.76	12:06	LNAPL not manually bailed
	06/02/2015	31.07	22.53	22.25	0.28	-	-	8.79	13:24	LNAPL not manually bailed
	06/09/2015	31.07	22.38	22.16	0.22	-	-	8.88	10:46	LNAPL not manually bailed
	06/16/2015	31.07	22.37	22.13	0.24	-	-	8.91	11:40	LNAPL not manually bailed
	06/26/2015	31.07	22.35	22.12	0.23	-	25.40	8.92	11:28	LNAPL not manually bailed

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-25S (cont.)	07/01/2015	31.07	22.23	22.04	0.19	-	-	9.01	12:18	LNAPL not manually bailed
	07/08/2015	31.07	22.08	21.88	0.20	0.04	-	9.17	12:04	
	07/13/2015	31.07	21.89	21.74	0.15	-	-	9.31	9:48	HIT event
	07/20/2015	31.07	21.37	21.33	0.04	TRACE	-	9.74	9:43	
	07/28/2015	31.07	21.20	-	-	-	25.49	9.87	12:25	
	08/04/2015	31.07	21.28	21.24	TRACE	TRACE	-	9.79	12:22	
	08/11/2015	31.07	21.37	21.36	0.01	0.01	25.49	9.71	11:22	
	08/18/2015	31.07	21.51	21.46	0.05	TRACE	-	9.60	10:50	
	08/24/2015	31.07	21.60	21.54	0.06	TRACE	-	9.52	10:53	
	09/02/2015	31.07	21.76	21.69	0.07	0.01	25.47	9.37	10:31	
	09/09/2015	31.07	21.81	21.77	0.04	0.01	25.49	9.30	10:50	
	09/17/2015	31.07	21.92	21.89	0.03	0.01	25.52	9.18	10:37	
	09/23/2015	31.07	21.92	21.89	0.03	TRACE	-	9.18	11:14	
	09/28/2015	31.07	21.96	21.92	0.04	TRACE	25.48	9.15	9:49	
	10/05/2015	31.07	22.01	21.98	0.03	TRACE	25.51	9.09	11:32	
	11/10/2015	31.07	22.09	22.06	0.03	TRACE	-	9.01	13:27	
	12/01/2015	31.07	22.19	22.16	0.03	-	25.43	8.91	12:10	LNAPL not manually bailed
	01/27/2016	31.07	22.10	22.08	0.02	-	-	8.99	10:56	LNAPL not manually bailed
	02/15/2016	31.07	22.10	22.07	0.03	TRACE	-	9.00	10:39	LNAPL not manually bailed
	03/14/2016	31.07	22.02	-	-	-	25.50	9.05	9:20	strong product odor
	04/21/2016	31.07	22.38	22.35	0.03	TRACE	-	8.72	12:15	bailed traces of product
	05/23/2016	31.07	22.16	22.14	0.02	TRACE	-	8.93	11:45	
	06/21/2016	31.07	22.17	22.13	0.04	TRACE	-	8.94	10:14	bailed traces of product
MW-25 / RW-25	08/08/2014	31.13	27.97	27.60	0.37	0.08	36.69	3.48	-	
	08/11/2014	31.13	27.61	27.37	0.24	NA	-	3.73	-	Transducers in well for pump test
	08/15/2014	31.13	28.11	28.05	0.06	NA	-	3.07	-	Transducers in well for pump test
	08/16/2014	31.13	27.81	27.75	0.06	NA	-	3.37	-	Transducers in well for pump test
	08/18/2014	31.13	27.94	27.71	0.23	NA	-	3.39	-	Transducers in well for pump test
	08/25/2014	31.13	26.89	26.74	0.15	0.05	-	4.37	-	
	09/02/2014	31.13	27.77	27.03	0.74	0.50	-	4.01	-	
	09/15/2014	31.13	27.69	26.87	0.82	NR	-	4.16	-	
	09/19/2014	31.13	28.10	26.95	1.15	0.93	-	4.04	-	
	09/22/2014	31.13	27.53	26.91	0.62	0.38	-	4.14	-	
	09/24/2014	31.13	27.73	27.23	0.50	NR	-	3.84	-	HIT event
	10/01/2014	31.13	27.47	27.02	0.45	0.19	35.90	4.06	-	
	10/10/2014	31.13	27.65	26.91	0.74	0.50	-	4.13	-	
	10/13/2014	31.13	27.60	27.03	0.57	NR	-	4.03	-	
	10/20/2014	31.13	27.49	27.19	0.30	0.13	-	3.90	-	
	10/27/2014	31.13	27.87	27.25	0.62	NR	-	3.80	-	HIT event
	11/07/2014	31.13	27.53	27.08	0.45	0.19	-	4.00	-	
	11/12/2014	31.13	27.50	27.07	0.43	0.19	-	4.01	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-25 / RW-25 (cont'd)	11/21/2014	31.13	28.53	27.81	0.72	0.16	-	3.23	-	
	11/26/2014	31.13	27.70	27.23	0.47	0.19	-	3.84	-	
	12/05/2014	31.13	27.63	27.15	0.48	-	35.87	3.92	-	HIT event
	12/11/2014	31.13	27.31	26.98	0.33	0.06	-	4.11	-	
	12/16/2014	31.13	27.27	27.04	0.23	0.03	-	4.06	-	
	12/23/2014	31.13	27.20	26.95	0.25	0.04	-	4.15	-	
	12/30/2014	31.13	28.02	27.33	0.69	0.28	-	3.72	-	
	01/09/2015	31.13	27.80	27.38	0.42	-	-	3.70	-	HIT event
	01/16/2015	31.13	27.24	27.16	0.08	0.00	-	3.96	-	
	01/19/2015	31.13	27.28	26.97	0.31	0.06	-	4.12	-	
	01/26/2015	31.13	27.27	26.98	0.29	0.05	-	4.11	-	
	02/03/2015	31.13	28.10	27.52	0.58	-	35.86	3.54	-	LNAPL not manually bailed
	02/09/2015	31.13	27.43	27.06	0.37	-	-	4.02	-	LNAPL not manually bailed
	02/18/2015	31.13	27.63	27.24	0.39	-	-	3.84	-	LNAPL not manually bailed
	02/24/2015	31.13	27.68	27.18	0.50	-	-	3.89	14:00	LNAPL not manually bailed
	03/04/2015	31.13	27.85	27.19	0.66	-	-	3.86	14:35	LNAPL not manually bailed
	03/11/2015	31.13	27.27	26.76	0.51	-	-	4.31	13:08	LNAPL not manually bailed
	03/18/2015	31.13	27.63	26.93	0.70	-	-	4.11	11:30	LNAPL not manually bailed
	03/26/2015	31.13	27.31	26.70	0.61	-	35.90	4.36	12:03	LNAPL not manually bailed
	04/02/2015	31.13	27.60	26.85	0.75	-	35.80	4.19	12:09	LNAPL not manually bailed
	04/08/2015	31.13	28.00	27.15	0.85	-	35.90	3.88	9:10	LNAPL not manually bailed
	04/13/2015	31.13	27.98	27.05	0.93	-	-	3.97	11:06	LNAPL not manually bailed
	04/23/2015	31.13	27.21	26.47	0.74	-	35.90	4.57	12:28	LNAPL not manually bailed
	04/29/2015	31.13	27.50	26.67	0.83	-	35.90	4.36	14:52	LNAPL not manually bailed
	05/04/2015	31.13	27.37	26.57	0.80	-	-	4.46	12:08	LNAPL not manually bailed
	05/11/2015	31.13	27.50	27.43	0.07	-	-	3.69	15:10	LNAPL not manually bailed
	05/13/2015	31.13	28.31	27.19	1.12	1.50	-	3.80	12:53	
	05/21/2015	31.13	26.85	26.82	0.03	-	-	4.31	12:50	LNAPL not manually bailed
	05/28/2015	31.13	27.55	27.09	0.46	-	35.80	3.98	12:10	LNAPL not manually bailed
	06/02/2015	31.13	27.10	26.74	0.36	-	-	4.35	13:28	LNAPL not manually bailed
	06/09/2015	31.13	26.91	26.46	0.45	-	-	4.62	10:50	LNAPL not manually bailed
	06/16/2015	31.13	26.86	26.56	0.30	-	-	4.53	11:43	LNAPL not manually bailed
	06/26/2015	31.13	26.91	26.48	0.43	-	35.80	4.60	11:31	LNAPL not manually bailed
	07/01/2015	31.13	26.43	25.98	0.45	-	-	5.10	12:22	LNAPL not manually bailed
	07/08/2015	31.13	26.63	26.13	0.50	0.25	-	4.94	12:00	
	07/13/2015	31.13	26.13	25.89	0.24	-	-	5.21	9:50	HIT event
	07/20/2015	31.13	26.23	TRACE	TRACE	TRACE	-	4.90	9:48	
	07/28/2015	31.13	26.37	26.23	0.14	TRACE	36.00	4.88	12:10	
	08/04/2015	31.13	26.27	26.20	0.07	0.02	-	4.92	12:25	
	08/11/2015	31.13	26.05	25.90	0.15	0.03	35.88	5.21	11:19	
	08/18/2015	31.13	26.52	26.42	0.10	0.01	-	4.70	10:53	
	08/24/2015	31.13	26.55	26.33	0.22	0.02	-	4.77	10:56	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-25 / RW-25 (cont'd)	09/02/2015	31.13	26.80	26.62	0.18	0.02	35.92	4.49	10:28	
	09/09/2015	31.13	26.51	26.45	0.06	0.02	35.93	4.67	10:42	
	09/17/2015	31.13	26.73	26.53	0.20	0.04	35.95	4.58	10:48	
	09/23/2015	31.13	26.82	26.63	0.19	0.02	-	4.48	11:18	
	09/28/2015	31.13	26.34	26.31	0.03	0.01	35.89	4.82	9:51	
	10/05/2015	31.13	26.21	26.06	0.15	0.05	35.87	5.05	11:18	
	11/10/2015	31.13	26.05	26.02	0.03	-	-	5.11	13:31	LNAPL not manually bailed
	12/01/2015	30.52	26.19	26.06	0.13	-	-	4.44	13:54	LNAPL not manually bailed
	01/27/2016	30.52	26.68	26.38	0.30	-	-	4.10	11:00	pump in well
	02/15/2016	30.52	26.88	26.59	0.29	-	-	3.89	10:39	pump in well
	03/14/2016	30.52	26.42	26.27	0.15	-	-	4.23	10:30	pump in well
	03/30/2016	30.52	32.73	-	-	-	-	-2.21	-	O&M event
	04/21/2016	30.52	32.76	-	-	-	-	-2.24	10:18	
	05/23/2016	30.52	32.81	-	-	-	33.70	-2.29	11:39	
	06/21/2016	30.52	32.76	-	-	-	-	-2.24	10:10	
TW-10	12/18/2013	37.28	30.31	-	-	-	-	6.97	-	
	01/08/2014	37.28	30.56	-	-	-	-	6.72	-	
	03/07/2014	37.28	29.70	-	-	-	-	7.58	-	
	03/13/2014	37.28	30.08	-	-	-	-	7.20	-	
	03/20/2014	37.28	29.22	-	-	-	-	8.06	-	
	03/27/2014	37.28	30.13	-	-	-	-	7.15	-	
	04/03/2014	37.28	29.08	-	-	-	-	8.20	-	
	04/08/2014	37.28	29.14	-	-	-	-	8.14	-	
	04/17/2014	37.28	29.66	-	-	-	-	7.62	-	
	04/22/2014	37.28	29.12	-	-	-	-	8.16	-	
	04/29/2014	37.28	28.96	-	-	-	-	8.32	-	
	05/05/2014	37.28	29.22	-	-	-	-	8.06	-	
	05/12/2014	37.28	29.06	-	-	-	-	8.22	-	
	05/19/2014	37.28	29.02	-	-	-	-	8.26	-	
	06/02/2014	37.28	28.99	-	-	-	-	8.29	-	
	06/09/2014	37.28	28.89	-	-	-	-	8.39	-	
	06/16/2014	37.28	29.02	-	-	-	-	8.26	-	
	06/23/2014	37.28	28.86	-	-	-	-	8.42	-	
	07/02/2014	37.28	28.87	-	-	-	-	8.41	-	
	07/07/2014	37.28	29.12	-	-	-	36.47	8.16	-	
	07/14/2014	37.28	28.68	-	-	-	-	8.60	-	
	07/21/2014	Overdrilled and replaced with MW-27								
MW-27	07/24/2014	31.43	27.59	-	-	-	-	3.84	-	
	07/31/2014	31.43	27.58	-	-	-	34.47	3.85	-	
	08/08/2014	31.43	27.69	-	-	-	34.46	3.74	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-27 (cont.)	08/11/2014	31.43	27.33	-	-	-	-	4.10	-	
	08/15/2014	31.43	27.90	-	-	-	-	3.53	-	
	08/16/2014	31.43	27.65	-	-	-	34.48	3.78	-	
	08/18/2014	31.43	27.62	-	-	-	-	3.81	-	
	08/25/2014	31.43	27.09	-	-	-	-	4.34	-	
	09/02/2014	31.43	27.52	-	-	-	-	3.91	-	
	09/15/2014	31.43	27.38	-	-	-	-	4.05	-	
	09/22/2014	31.43	27.24	-	-	-	-	4.19	-	
	10/01/2014	31.43	27.44	-	-	-	34.27	3.99	-	
	10/10/2014	31.43	27.24	-	-	-	-	4.19	-	
	10/20/2014	31.43	27.59	-	-	-	34.13	3.84	-	
	10/27/2014	31.43	27.66	-	-	-	-	3.77	-	
	11/07/2014	31.43	27.43	-	-	-	-	4.00	-	
	11/12/2014	31.43	27.43	-	-	-	-	4.00	-	
	11/21/2014	31.43	28.23	-	-	-	-	3.20	-	
	11/26/2014	31.43	27.64	-	-	-	-	3.79	-	
	12/05/2014	31.43	27.50	-	-	-	-	3.93	-	
	12/11/2014	31.43	27.38	-	-	-	-	4.05	-	
	12/16/2014	31.43	27.34	-	-	-	-	4.09	-	
	12/23/2014	31.43	27.22	-	-	-	-	4.21	-	
	12/30/2014	31.43	27.80	-	-	-	-	3.63	-	
	01/09/2015	31.43	27.59	-	-	-	-	3.84	-	
	01/16/2015	31.43	27.46	-	-	-	-	3.97	-	
	01/19/2015	31.43	27.38	-	-	-	-	4.05	-	
	01/26/2015	31.43	27.40	-	-	-	-	4.03	-	
	02/03/2015	31.43	28.01	-	-	-	34.05	3.42	-	
	02/09/2015	31.43	27.43	-	-	-	-	4.00	-	
	02/18/2015	31.43	27.52	-	-	-	-	3.91	-	
	02/24/2015	31.43	26.61	-	-	-	-	4.82	13:15	
	02/25/2015	31.43	27.45	-	-	-	34.06	3.98	13:38	
	03/04/2015	31.43	27.63	-	-	-	-	3.80	13:59	
	03/11/2015	31.43	27.11	-	-	-	-	4.32	12:26	
	03/18/2015	31.43	27.36	-	-	-	-	4.07	10:49	
	03/26/2015	31.43	27.20	-	-	-	34.00	4.23	10:50	
	04/02/2015	31.43	27.28	-	-	-	34.05	4.15	11:15	
	04/08/2015	31.43	27.55	-	-	-	34.04	3.88	9:30	
	04/13/2015	31.43	27.53	-	-	-	-	3.90	10:14	
	04/23/2015	31.43	26.92	-	-	-	34.05	4.51	11:33	
	04/29/2015	31.43	27.18	-	-	-	34.05	4.25	13:52	
	05/04/2015	31.43	26.96	-	-	-	-	4.47	11:26	
	05/11/2015	31.43	26.86	-	-	-	34.04	4.57	15:15	
	05/13/2015	31.43	27.55	-	-	-	-	3.88	9:52	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-27 (cont.)	05/21/2015	31.43	27.12	-	-	-	34.12	4.31	12:02	
	05/28/2015	31.43	27.51	-	-	-	34.00	3.92	11:25	
	06/02/2015	31.43	27.11	-	-	-	-	4.32	12:45	
	06/09/2015	31.43	26.92	-	-	-	-	4.51	10:11	
	06/16/2015	31.43	26.86	-	-	-	-	4.57	11:05	
	06/26/2015	31.43	26.87	-	-	-	34.00	4.56	10:15	
	07/01/2015	31.43	26.38	-	-	-	-	5.05	11:57	
	07/08/2015	31.43	26.64	-	-	-	-	4.79	10:45	
	07/13/2015	31.43	26.19	-	-	-	-	5.24	9:10	
	07/20/2015	31.43	26.51	-	-	-	-	4.92	8:52	
	07/28/2015	31.43	26.55	-	-	-	34.13	4.88	9:56	
	08/04/2015	31.43	26.58	-	-	-	34.05	4.85	12:05	
	08/05/2015	31.43	27.06	TRACE	TRACE	TRACE	34.07	4.37	8:16	
	08/11/2015	31.43	26.16	TRACE	TRACE	TRACE	34.03	5.27	9:38	
	08/18/2015	31.43	26.77	-	-	-	-	4.66	10:03	
	08/24/2015	31.43	26.75	-	-	-	-	4.68	10:06	
	09/02/2015	31.43	27.09	TRACE	TRACE	TRACE	34.08	4.34	9:08	
	09/09/2015	31.43	26.82	TRACE	TRACE	TRACE	34.05	4.61	9:57	
	09/17/2015	31.43	27.16	-	-	-	34.08	4.27	10:07	
	09/23/2015	31.43	27.03	-	-	-	-	4.40	10:24	
	09/28/2015	31.43	26.52	-	-	-	34.09	4.91	9:42	
	10/05/2015	31.43	26.39	-	-	-	34.05	5.04	9:00	
	11/10/2015	31.43	26.97	-	-	-	-	4.46	12:51	
	12/01/2015	31.43	26.98	-	-	-	33.35	4.45	13:39	
	01/27/2016	31.43	27.28	SHEEN	-	-	-	4.15	10:14	
	02/15/2016	31.43	27.64	-	-	-	-	3.79	9:55	
	03/14/2016	31.43	27.32	-	-	-	34.03	4.11	9:00	
	04/21/2016	31.43	27.85	-	-	-	33.80	3.58	10:30	Sheen during purge
	05/23/2016	31.43	26.84	-	-	-	33.70	4.59	11:14	
	05/25/2016	31.43	28.07	-	-	-	33.81	3.36	-	
	06/21/2016	31.43	27.63	-	-	-	-	3.80	9:50	
MW-30S	08/08/2014	30.67	23.31	-	-	-	25.28	7.36	-	
	08/11/2014	30.67	23.33	-	-	-	-	7.34	-	
	08/15/2014	30.67	24.84	-	-	-	-	5.83	-	
	08/18/2014	30.67	24.84	-	-	-	-	5.83	-	
	08/25/2014	30.67	24.79	-	-	-	-	5.88	-	
	09/02/2014	30.67	24.83	-	-	-	-	5.84	-	
	09/15/2014	30.67	24.85	-	-	-	-	5.82	-	
	09/22/2014	30.67	24.88	-	-	-	-	5.79	-	
	10/01/2014	30.67	24.88	-	-	-	25.28	5.79	-	
	10/10/2014	30.67	24.87	-	-	-	-	5.80	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-30S (cont.)	10/20/2014	30.67	24.77	-	-	-	25.29	5.90	-	
	10/27/2014	30.67	24.78	-	-	-	-	5.89	-	
	11/07/2014	30.67	24.85	-	-	-	-	5.82	-	
	11/12/2014	30.67	24.87	-	-	-	-	5.80	-	
	11/21/2014	30.67	24.94	-	-	-	-	5.73	-	
	11/26/2014	30.67	24.93	-	-	-	-	5.74	-	
	12/05/2014	30.67	24.92	-	-	-	-	5.75	-	
	12/11/2014	30.67	24.72	-	-	-	-	5.95	-	
	12/16/2014	30.67	24.74	-	-	-	-	5.93	-	
	12/23/2014	30.67	24.70	-	-	-	-	5.97	-	
	12/30/2014	30.67	24.68	-	-	-	-	5.99	-	
	01/09/2015	30.67	24.66	-	-	-	-	6.01	-	
	01/16/2015	30.67	24.62	-	-	-	-	6.05	-	
	01/19/2015	30.67	24.60	-	-	-	-	6.07	-	
	01/26/2015	30.67	24.48	-	-	-	-	6.19	-	
	02/03/2015	30.67	24.56	-	-	-	25.34	6.11	-	
	02/09/2015	30.67	24.57	-	-	-	-	6.10	-	
	02/18/2015	30.67	24.63	-	-	-	-	6.04	-	
	02/24/2015	30.67	24.24	-	-	-	25.31	6.43	15:32	
	02/25/2015	30.67	24.10	-	-	-	25.31	6.57	13:10	
	03/04/2015	30.67	24.20	-	-	-	-	6.47	14:04	
	03/11/2015	30.67	24.20	-	-	-	-	6.47	12:32	
	03/18/2015	30.67	24.22	-	-	-	-	6.45	10:55	
	03/26/2015	30.67	24.32	-	-	-	25.30	6.35	10:42	
	04/02/2015	30.67	24.27	-	-	-	25.30	6.40	11:02	
	04/08/2015	30.67	24.30	-	-	-	25.29	6.37	9:31	
	04/13/2015	30.67	24.31	-	-	-	-	6.36	10:28	
	04/23/2015	30.67	DRY	-	-	-	25.28	-	11:23	
	04/29/2015	30.67	24.27	-	-	-	25.25	6.40	13:38	
	05/04/2015	30.67	24.32	-	-	-	-	6.35	11:23	
	05/11/2015	30.67	24.41	-	-	-	25.20	6.26	10:50	
	05/13/2015	30.67	24.41	-	-	-	-	6.26	9:50	
	05/21/2015	30.67	24.68	-	-	-	25.15	5.99	12:04	
	05/28/2015	30.67	24.67	-	-	-	25.28	6.00	11:21	
	06/02/2015	30.67	24.55	-	-	-	-	6.12	12:51	
	06/09/2015	30.67	24.30	-	-	-	-	6.37	10:17	
	06/16/2015	30.67	24.33	-	-	-	-	6.34	11:08	
	06/22/2015	Destroyed during overdrilling activities; replaced with RW-30S								
TW-11	12/18/2013	37.39	26.40	-	-	-	-	10.99	-	
	01/08/2014	37.39	27.73	-	-	-	-	9.66	-	
	03/07/2014	37.39	29.17	-	-	-	-	8.22	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-11 (cont.)	03/13/2014	37.39	27.56	-	-	-	-	9.83	-	
	03/20/2014	37.39	27.15	-	-	-	-	10.24	-	
	03/27/2014	37.39	27.40	-	-	-	-	9.99	-	
	04/03/2014	37.39	26.28	26.26	0.02	0.10	-	11.12	-	
	04/08/2014	37.39	26.52	-	-	-	-	10.87	-	
	04/17/2014	37.39	26.85	-	-	-	-	10.54	-	
	04/22/2014	37.39	27.09	-	-	-	-	10.30	-	
	04/29/2014	37.39	27.39	-	-	-	-	10.00	-	
	05/05/2014	37.39	26.26	26.24	0.02	-	-	11.14	-	
	05/12/2014	37.39	26.97	-	-	-	-	10.42	-	
	05/19/2014	37.39	25.91	25.90	0.01	-	-	11.49	-	
	06/02/2014	37.39	26.32	26.31	0.01	-	-	11.08	-	
	06/09/2014	37.39	25.23	-	-	-	-	12.16	-	
	06/16/2014	37.39	25.35	25.36	0.01	-	-	12.05	-	
	06/23/2014	37.39	26.55	-	-	-	-	10.84	-	
	07/02/2014	37.39	26.91	TRACE	TRACE	-	-	10.48	-	
	07/07/2014	37.39	27.08	-	-	-	37.10	10.31	-	
	07/14/2014	37.39	26.95	TRACE	TRACE	-	-	10.44	-	
	07/24/2014	37.39	26.88	-	-	-	-	10.51	-	
	07/31/2014	37.39	27.10	-	-	-	37.02	10.29	-	
	08/05/2014	Overdrilled and replaced with MW-31								
MW-31 / RW-31	08/08/2014	31.23	27.31	-	-	-	36.35	3.92	-	
	08/11/2014	31.23	26.88	-	-	-	-	4.35	-	
	08/15/2014	31.23	27.00	-	-	-	-	4.23	-	
	08/16/2014	31.23	26.92	-	-	-	35.00	4.31	-	
	08/18/2014	31.23	27.11	-	-	-	-	4.12	-	
	08/25/2014	31.23	26.90	-	-	-	-	4.33	-	
	09/02/2014	31.23	27.31	-	-	-	-	3.92	-	
	09/15/2014	31.23	27.18	-	-	-	-	4.05	-	
	09/22/2014	31.23	27.05	-	-	-	-	4.18	-	
	10/01/2014	31.23	27.21	-	-	-	35.50	4.02	-	
	10/10/2014	31.23	27.02	-	-	-	-	4.21	-	
	10/20/2014	31.23	27.40	-	-	-	35.50	3.83	-	
	10/27/2014	31.23	27.43	-	-	-	-	3.80	-	
	11/07/2014	31.23	24.23	-	-	-	-	7.00	-	
	11/12/2014	31.23	27.18	-	-	-	-	4.05	-	
	11/21/2014	31.23	28.03	-	-	-	-	3.20	-	
	11/26/2014	31.23	27.39	-	-	-	-	3.84	-	
	12/05/2014	31.23	27.33	-	-	-	-	3.90	-	
	12/11/2014	31.23	27.14	-	-	-	-	4.09	-	
	12/16/2014	31.23	27.15	-	-	-	-	4.08	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-31 / RW-31 (cont.)	12/23/2014	31.23	27.02	-	-	-	-	4.21	-	
	12/30/2014	31.23	27.61	-	-	-	-	3.62	-	
	01/09/2015	31.23	27.42	-	-	-	-	3.81	-	
	01/16/2015	31.23	27.26	-	-	-	-	3.97	-	
	01/19/2015	31.23	27.20	-	-	-	-	4.03	-	
	01/26/2015	31.23	27.18	-	-	-	-	4.05	-	
	02/03/2015	31.23	27.81	-	-	-	35.49	3.42	-	
	02/09/2015	31.23	27.18	-	-	-	-	4.05	-	
	02/18/2015	31.23	27.34	-	-	-	-	3.89	-	
	02/24/2015	31.23	27.27	-	-	-	-	3.96	13:09	
	02/25/2015	31.23	27.50	-	-	-	35.52	3.73	10:28	
	03/04/2015	31.23	27.45	-	-	-	-	3.78	14:02	
	03/11/2015	31.23	26.78	-	-	-	-	4.45	12:29	
	03/18/2015	31.23	27.13	-	-	-	-	4.10	10:52	
	03/26/2015	31.23	26.99	-	-	-	35.50	4.24	10:46	
	04/02/2015	31.23	27.04	-	-	-	35.45	4.19	11:04	
	04/08/2015	31.23	27.27	-	-	-	35.42	3.96	9:32	
	04/13/2015	31.23	27.35	-	-	-	-	3.88	10:25	
	04/23/2015	31.23	26.67	-	-	-	35.45	4.56	11:27	
	04/29/2015	31.23	26.97	-	-	-	35.40	4.26	13:34	
	05/04/2015	31.23	26.75	-	-	-	-	4.48	11:20	
	05/11/2015	31.23	26.65	-	-	-	35.40	4.58	14:55	
	05/13/2015	31.23	27.35	-	-	-	-	3.88	9:47	
	05/21/2015	31.23	26.87	-	-	-	35.50	4.36	12:06	
	05/28/2015	31.23	27.31	-	-	-	35.40	3.92	11:23	
	06/02/2015	31.23	26.87	-	-	-	-	4.36	12:48	
	06/09/2015	31.23	26.71	-	-	-	-	4.52	10:14	
	06/16/2015	31.23	26.68	-	-	-	-	4.55	11:11	
	06/26/2015	31.23	26.58	-	-	-	35.20	4.65	9:20	
	07/01/2015	31.23	26.02	-	-	-	-	5.21	12:00	
	07/08/2015	31.23	26.26	-	-	-	-	4.97	10:48	
	07/13/2015	31.23	25.88	-	-	-	-	5.35	9:13	
	07/20/2015	31.23	26.22	-	-	-	-	5.01	8:58	
	07/28/2015	31.23	26.31	-	-	-	35.56	4.92	10:22	
	08/04/2015	31.23	29.82	-	-	-	35.42	1.41	12:09	
	08/05/2015	31.23	26.78	-	-	-	35.47	4.45	8:22	
	08/11/2015	31.23	25.93	-	-	-	35.43	5.30	9:48	
	08/18/2015	31.23	26.56	-	-	-	-	4.67	9:56	
	08/24/2015	31.23	26.55	-	-	-	-	4.68	10:00	
	09/02/2015	31.23	26.87	-	-	-	35.42	4.36	9:20	
	09/09/2015	31.23	26.61	-	-	-	35.47	4.62	10:03	
	09/17/2015	31.23	26.96	-	-	-	35.50	4.27	10:01	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-31 / RW-31 (cont.)	09/23/2015	31.23	26.82	-	-	-	-	4.41	10:18	
	09/28/2015	31.23	26.29	-	-	-	35.44	4.94	9:35	
	10/05/2015	31.23	26.11	-	-	-	35.42	5.12	9:02	
	11/10/2015	31.23	26.61	-	-	-	-	4.62	12:47	
	12/01/2015	31.23	26.27	-	-	-	-	4.96	13:47	
	01/27/2016	31.23	26.24	-	-	-	-	4.99	10:06	
	02/15/2016	31.23	27.21	-	-	-	-	4.02	9:49	
	03/14/2016	31.23	26.76	-	-	-	-	4.47	9:33	
	03/30/2016	31.23	32.98	-	-	-	-	-1.75	-	O&M event
	04/21/2016	31.23	33.03	-	-	-	-	-1.80	10:27	
	05/23/2016	31.23	NM	-	-	-	-	NM	11:13	attempted measurement but obstruction prevented
	06/21/2016	31.23	33.05	-	-	-	-	-1.82	10:00	
MW-33	08/08/2014	30.93	27.91	-	-	-	35.41	3.02	-	
	08/11/2014	30.93	27.41	-	-	-	-	3.52	-	
	08/15/2014	30.93	26.98	-	-	-	34.45	3.95	-	
	08/18/2014	30.93	26.76	-	-	-	-	4.17	-	
	08/25/2014	30.93	26.47	-	-	-	-	4.46	-	
	09/02/2014	30.93	26.87	-	-	-	-	4.06	-	
	09/15/2014	30.93	26.73	-	-	-	-	4.20	-	
	09/22/2014	30.93	26.59	-	-	-	-	4.34	-	
	10/01/2014	30.93	26.79	-	-	-	34.47	4.14	-	
	10/10/2014	30.93	26.60	-	-	-	-	4.33	-	
	10/20/2014	30.93	26.96	-	-	-	34.47	3.97	-	
	02/24/2015	30.93	26.99	-	-	-	-	3.94	13:05	
	02/25/2015	30.93	27.03	-	-	-	34.45	3.90	10:08	
	05/11/2015	30.93	26.22	-	-	-	34.40	4.71	14:54	
	05/13/2015	30.93	26.90	-	-	-	34.40	4.03	9:45	
	08/04/2015	30.93	25.91	-	-	-	34.39	5.02	12:14	
	08/05/2015	30.93	26.43	-	-	-	34.42	4.50	8:26	
	12/01/2015	30.93	26.37	-	-	-	34.40	4.56	13:35	
	03/14/2016	30.93	26.59	-	-	-	34.46	4.34	10:21	
	05/23/2016	30.93	26.58	-	-	-	34.40	4.35	10:49	
MW-51S	08/08/2014	30.81	21.15	-	-	-	25.27	9.66	-	
	08/11/2014	30.81	21.27	-	-	-	-	9.54	-	
	08/15/2014	30.81	21.17	-	-	-	25.30	9.64	-	
	08/18/2014	30.81	21.23	-	-	-	-	9.58	-	
	08/25/2014	30.81	21.34	-	-	-	-	9.47	-	
	09/02/2014	30.81	21.38	-	-	-	-	9.43	-	
	09/15/2014	30.81	21.46	-	-	-	-	9.35	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-51S (cont.)	09/22/2014	30.81	21.48	-	-	-	-	9.33	-	
	09/24/2014	30.81	21.49	-	-	-	-	9.32	-	
	10/01/2014	30.81	21.32	TRACE	TRACE	-	25.30	9.49	-	
	10/10/2014	30.81	21.53	-	-	-	-	9.28	-	
	10/13/2014	30.81	21.52	-	-	-	-	9.29	-	
	10/20/2014	30.81	21.58	-	-	-	25.33	9.23	-	
	10/27/2014	30.81	21.64	-	-	-	-	9.17	-	
	11/07/2014	30.81	21.53	-	-	-	-	9.28	-	
	11/12/2014	30.81	21.66	-	-	-	-	9.15	-	
	11/21/2014	30.81	21.73	-	-	-	-	9.08	-	
	12/05/2014	30.81	21.64	-	-	-	-	9.17	-	
	12/11/2014	30.81	21.72	-	-	-	-	9.09	-	
	12/16/2014	30.81	21.78	-	-	-	-	9.03	-	
	12/23/2014	30.81	21.83	-	-	-	-	8.98	-	
	12/30/2014	30.81	21.87	-	-	-	-	8.94	-	
	01/09/2015	30.81	21.89	-	-	-	-	8.92	-	
	01/16/2015	30.81	21.80	-	-	-	-	9.01	-	
	01/19/2015	30.81	21.87	-	-	-	-	8.94	-	
	01/26/2015	30.81	21.82	-	-	-	-	8.99	-	
	02/03/2015	30.81	22.00	-	-	-	25.21	8.81	-	
	02/09/2015	30.81	21.92	-	-	-	-	8.89	-	
	02/18/2015	30.81	21.92	-	-	-	-	8.89	-	
	02/24/2015	30.81	21.96	-	-	-	25.33	8.85	16:00	
	03/11/2015	30.81	21.67	-	-	-	-	9.14	12:48	
	03/18/2015	30.81	21.71	-	-	-	-	9.10	11:08	
	03/26/2015	30.81	21.76	-	-	-	25.30	9.05	11:45	
	04/02/2015	30.81	21.80	-	-	-	25.30	9.01	11:27	
	04/08/2015	30.81	21.75	-	-	-	25.19	9.06	8:55	
	04/13/2015	30.81	21.87	-	-	-	-	8.94	10:44	
	04/23/2015	30.81	21.89	-	-	-	25.25	8.92	11:59	
	04/29/2015	30.81	21.88	-	-	-	25.25	8.93	14:26	
	05/04/2015	30.81	21.89	-	-	-	-	8.92	11:43	
	05/11/2015	30.81	21.93	-	-	-	24.50	8.88	10:45	
	05/13/2015	30.81	21.95	-	-	-	-	8.86	10:00	
	05/21/2015	30.81	21.68	-	-	-	25.35	9.13	12:12	
	05/28/2015	30.81	21.93	-	-	-	25.30	8.88	11:47	
	06/09/2015	30.81	21.85	-	-	-	-	8.96	10:34	
	06/16/2015	30.81	21.79	-	-	-	-	9.02	11:27	
	06/26/2015	30.81	21.62	-	-	-	-	9.19	10:35	
	07/08/2015	30.81	21.33	-	-	-	-	9.48	11:40	
	07/13/2015	30.81	21.62	-	-	-	-	9.19	9:41	
	07/20/2015	30.81	21.57	-	-	-	-	9.24	9:19	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-51S (cont.)	07/28/2015	30.81	21.37	-	-	-	25.35	9.44	11:29	
	08/04/2015	30.81	21.21	-	-	-	25.30	9.60	12:02	
	08/05/2015	30.81	21.25	-	-	-	25.30	9.56	9:12	
	08/11/2015	30.81	21.28	-	-	-	25.31	9.53	10:14	
	08/18/2015	30.81	21.22	-	-	-	-	9.59	10:19	
	08/24/2015	30.81	21.27	-	-	-	-	9.54	10:30	
	09/02/2015	30.81	21.35	-	-	-	25.30	9.46	9:54	
	09/09/2015	30.81	21.42	-	-	-	25.32	9.39	10:32	
	09/17/2015	30.81	21.52	-	-	-	25.43	9.29	10:32	
	09/23/2015	30.81	21.48	-	-	-	-	9.33	10:53	
	09/28/2015	30.81	21.56	-	-	-	25.30	9.25	9:44	
	10/05/2015	30.81	21.55	-	-	-	25.61	9.26	9:21	
	11/10/2015	30.81	21.67	-	-	-	-	9.14	13:14	
	12/01/2015	30.81	21.80	-	-	-	25.30	9.01	10:48	
	01/27/2016	30.81	21.95	-	-	-	-	8.86	10:36	
	02/15/2016	30.81	21.31	-	-	-	-	9.50	10:18	
	03/14/2016	30.81	21.23	-	-	-	25.30	9.58	12:45	
	04/21/2016	30.81	22.04	-	-	-	25.30	8.77	10:58	
	05/23/2016	30.81	21.93	-	-	-	25.21	8.88	11:20	
	05/24/2016	30.81	21.77	-	-	-	25.28	9.04	10:08	
	06/21/2016	30.81	22.20	-	-	-	-	8.61	11:00	
MW-51 / RW-51	07/25/2014	30.97	27.25	-	-	-	35.95	3.72	-	
	08/08/2014	30.97	27.00	TRACE	TRACE	-	36.48	3.97	-	
	08/11/2014	30.97	26.70	-	-	-	-	4.27	-	
	08/15/2014	30.97	27.30	-	-	-	-	3.67	-	
	08/16/2014	30.97	26.99	TRACE	TRACE	-	34.65	3.98	-	
	08/18/2014	30.97	26.94	TRACE	TRACE	-	-	4.03	-	
	08/25/2014	30.97	26.59	TRACE	TRACE	-	-	4.38	-	
	09/02/2014	30.97	26.93	TRACE	TRACE	-	-	4.04	-	
	09/15/2014	30.97	26.88	26.85	0.03	TRACE	-	4.12	-	
	09/22/2014	30.97	26.83	26.80	0.03	TRACE	-	4.17	-	
	09/24/2014	30.97	27.19	27.15	0.04	-	-	3.82	-	
	10/01/2014	30.97	26.93	TRACE	TRACE	-	36.15	4.04	-	
	10/10/2014	30.97	26.84	26.81	0.03	-	-	4.16	-	
	10/13/2014	30.97	27.01	26.94	0.07	-	-	4.02	-	
	10/20/2014	30.97	27.05	27.03	0.02	TRACE	-	3.94	-	
	10/27/2014	30.97	27.16	27.12	0.04	TRACE	-	3.85	-	
	11/07/2014	30.97	27.11	27.07	0.04	TRACE	-	3.90	-	
	11/12/2014	30.97	26.92	26.90	0.02	TRACE	-	4.07	-	
	11/21/2014	30.97	27.57	27.50	0.07	TRACE	-	3.46	-	
	11/26/2014	30.97	27.20	27.17	0.03	TRACE	-	3.80	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-51 / RW-51 (cont.)	12/05/2014	30.97	26.98	26.96	0.02	TRACE	-	4.01	-	
	12/11/2014	30.97	26.88	26.87	0.01	TRACE	-	4.10	-	
	12/16/2014	30.97	26.83	26.80	0.03	TRACE	-	4.17	-	
	12/23/2014	30.97	26.83	TRACE	TRACE	TRACE	-	4.14	-	
	12/30/2014	30.97	27.28	27.22	0.06	TRACE	-	3.74	-	
	01/09/2015	30.97	27.20	27.15	0.05	TRACE	-	3.81	-	
	01/16/2015	30.97	26.95	26.91	0.04	TRACE	-	4.06	-	
	01/19/2015	30.97	26.88	26.83	0.05	TRACE	-	4.13	-	
	01/26/2015	30.97	26.98	26.92	0.06	TRACE	-	4.04	-	
	02/03/2015	30.97	27.52	27.45	0.07	-	36.15	3.51	-	LNAPL not manually bailed
	02/09/2015	30.97	26.93	26.91	0.02	-	-	4.06	-	LNAPL not manually bailed
	02/18/2015	30.97	27.07	27.02	0.05	-	-	3.94	-	LNAPL not manually bailed
	02/24/2015	30.97	27.07	27.06	0.01	TRACE	-	3.91	13:46	LNAPL not manually bailed
	03/04/2015	30.97	27.24	27.17	0.07	-	-	3.79	14:25	LNAPL not manually bailed
	03/11/2015	30.97	26.68	26.65	0.03	-	-	4.32	12:51	LNAPL not manually bailed
	03/18/2015	30.97	26.94	26.84	0.10	-	-	4.12	11:11	LNAPL not manually bailed
	03/26/2015	30.97	26.74	26.60	0.14	-	36.10	4.35	11:50	LNAPL not manually bailed
	04/02/2015	30.97	27.78	27.75	0.03	-	36.05	3.22	11:46	LNAPL not manually bailed
	04/08/2015	30.97	27.15	27.02	0.13	-	36.11	3.93	9:00	LNAPL not manually bailed
	04/13/2015	30.97	27.09	26.98	0.11	-	-	3.98	10:47	LNAPL not manually bailed
	04/23/2015	30.97	26.42	26.35	0.07	-	36.05	4.61	12:17	LNAPL not manually bailed
	04/29/2015	30.97	26.71	26.60	0.11	-	36.00	4.36	14:39	LNAPL not manually bailed
	05/04/2015	30.97	26.54	26.48	0.06	-	-	4.48	11:46	LNAPL not manually bailed
	05/11/2015	30.97	26.44	26.40	0.04	-	-	4.57	15:00	LNAPL not manually bailed
	05/13/2015	30.97	27.31	27.10	0.21	0.03	-	3.84	12:35	
	05/21/2015	30.97	26.74	26.71	0.03	-	-	4.26	12:10	LNAPL not manually bailed
	05/28/2015	30.97	27.10	26.95	0.15	-	36.05	4.00	11:58	LNAPL not manually bailed
	06/02/2015	30.97	26.85	26.82	0.03	-	-	4.15	13:07	LNAPL not manually bailed
	06/09/2015	30.97	26.75	26.72	0.03	-	-	4.25	10:37	LNAPL not manually bailed
	06/16/2015	30.97	26.57	26.54	0.03	-	-	4.43	11:30	LNAPL not manually bailed
	06/26/2015	30.97	26.44	26.31	0.13	-	36.00	4.64	11:23	LNAPL not manually bailed
	07/01/2015	30.97	25.86	25.85	0.01	-	-	5.12	12:30	LNAPL not manually bailed
	07/08/2015	30.97	26.28	26.05	0.23	0.05	-	4.89	11:54	
	07/13/2015	30.97	26.03	25.90	0.13	-	-	5.05	9:46	HIT event
	07/20/2015	30.97	25.97	25.92	0.05	TRACE	-	5.04	9:52	
	07/28/2015	30.97	26.16	26.10	0.06	TRACE	36.18	4.86	11:55	
	08/04/2015	30.97	26.11	26.02	0.09	0.01	-	4.94	12:28	
	08/11/2015	30.97	25.78	25.70	0.08	0.01	36.14	5.26	11:07	
	08/18/2015	30.97	27.29	27.23	0.06	TRACE	-	3.73	10:43	
	08/24/2015	30.97	26.18	26.16	0.02	TRACE	-	4.81	10:46	
	09/02/2015	30.97	26.42	26.40	0.02	0.01	36.10	4.57	10:50	
	09/09/2015	30.97	26.35	26.27	0.08	0.02	36.12	4.69	10:35	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-51 / RW-51 (cont.)	09/17/2015	30.97	26.61	-	-	-	36.14	4.36	10:54	
	09/23/2015	30.97	26.49	26.47	0.02	TRACE	-	4.50	11:06	
	09/28/2015	30.97	26.00	TRACE	TRACE	-	36.10	4.97	10:01	LNAPL not manually bailed
	10/05/2015	30.97	26.67	-	-	-	36.15	4.30	12:15	
	11/10/2015	30.97	26.52	26.48	0.04	-	-	4.49	13:42	LNAPL not manually bailed
	12/01/2015	30.97	26.57	26.55	0.02	-	-	4.42	13:53	LNAPL not manually bailed
	01/27/2016	30.97	26.86	26.73	0.13	-	-	4.22	10:48	pump in well
	02/15/2016	30.97	27.22	27.14	0.08	-	-	3.82	10:23	pump in well
	03/14/2016	30.97	26.72	26.63	0.09	-	-	4.33	10:25	pump in well
	03/30/2016	30.97	33.60	-	-	-	-	-2.63	-	O&M event
	04/21/2016	30.97	33.00	-	-	-	-	-2.03	10:13	
	05/23/2016	30.97	33.31	-	-	-	34.52	-2.34	11:30	
	06/21/2016	30.97	33.00	-	-	-	-	-2.03	11:05	
MW-52	08/15/2014	30.17	28.11	-	-	-	35.78	2.06	-	
	08/18/2014	30.17	26.07	-	-	-	-	4.10	-	
	08/25/2014	30.17	25.76	-	-	-	-	4.41	-	
	09/02/2014	30.17	26.15	-	-	-	-	4.02	-	
	09/15/2014	30.17	25.99	-	-	-	-	4.18	-	
	09/22/2014	30.17	26.00	-	-	-	-	4.17	-	
	10/01/2014	30.17	26.03	-	-	-	35.65	4.14	-	
	10/10/2014	30.17	26.07	-	-	-	-	4.10	-	
	10/20/2014	30.17	26.24	-	-	-	35.64	3.93	-	
	05/11/2015	30.17	25.81	-	-	-	35.65	4.36	14:45	
	05/12/2015	30.17	26.10	-	-	-	-	4.07	9:50	
	08/04/2015	30.17	25.21	-	-	-	35.55	4.96	12:01	
	08/05/2015	30.17	25.68	-	-	-	35.49	4.49	9:47	
	12/01/2015	30.17	NG	-	-	-	-	-	-	Well flooded
	03/14/2016	30.17	26.61	-	-	-	35.30	3.56	9:10	
	05/23/2016	30.17	26.29	-	-	-	35.22	3.88	10:40	
MW-70	08/15/2014	30.86	26.63	-	-	-	34.95	4.23	-	
	08/18/2014	30.86	26.61	-	-	-	-	4.25	-	
	08/25/2014	30.86	26.25	-	-	-	-	4.61	-	
	09/02/2014	30.86	26.68	-	-	-	-	4.18	-	
	09/15/2014	30.86	26.63	-	-	-	-	4.23	-	
	09/22/2014	30.86	26.47	-	-	-	-	4.39	-	
	10/01/2014	30.86	26.66	-	-	-	34.88	4.20	-	
	10/10/2014	30.86	26.57	-	-	-	-	4.29	-	
	10/20/2014	30.86	26.79	-	-	-	34.90	4.07	-	
	02/24/2015	30.86	26.62	-	-	-	-	4.24	13:00	
	05/11/2015	30.86	26.02	-	-	-	35.15	4.84	14:55	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-70 (cont.)	05/12/2015	30.86	26.21	-	-	-	-	4.65	14:05	
	08/04/2015	30.86	25.73	-	-	-	35.16	5.13	12:28	
	08/05/2015	30.86	26.10	-	-	-	35.05	4.76	9:55	
	12/01/2015	30.86	26.23	-	-	-	35.05	4.63	13:32	
	03/14/2016	30.86	26.45	-	-	-	35.11	4.41	9:45	
	05/23/2016	30.86	26.71	-	-	-	35.05	4.15	10:22	
TW-08S	12/18/2013	36.75	DRY	-	-	-	-	-	-	
	01/08/2014	36.75	DRY	-	-	-	-	-	-	
	03/07/2014	36.75	24.14	-	-	-	-	12.61	-	
	03/13/2014	36.75	24.06	-	-	-	-	12.69	-	
	03/20/2014	36.75	24.37	-	-	-	-	12.38	-	
	03/27/2014	36.75	24.54	-	-	-	-	12.21	-	
	04/03/2014	36.75	24.26	-	-	-	-	12.49	-	
	04/08/2014	36.75	23.85	-	-	-	-	12.90	-	
	04/17/2014	36.75	24.13	-	-	-	-	12.62	-	
	04/22/2014	36.75	23.92	-	-	-	-	12.83	-	
	04/29/2014	36.75	23.91	-	-	-	-	12.84	-	
	05/05/2014	36.75	22.89	-	-	-	-	13.86	-	
	05/12/2014	36.75	23.02	-	-	-	-	13.73	-	
	05/19/2014	36.75	22.90	-	-	-	-	13.85	-	
	06/02/2014	36.75	23.24	-	-	-	-	13.51	-	
	06/09/2014	36.75	23.21	-	-	-	-	13.54	-	
	06/16/2014	36.75	22.40	-	-	-	-	14.35	-	
	06/23/2014	36.75	22.41	-	-	-	-	14.34	-	
	07/02/2014	36.75	22.40	-	-	-	-	14.35	-	
	07/07/2014	36.75	22.65	-	-	-	25.85	14.10	-	
	07/14/2014	36.75	23.23	-	-	-	-	13.52	-	
	07/24/2014	36.75	23.09	-	-	-	-	13.66	-	
	07/31/2014	36.75	23.26	-	-	-	25.82	13.49	-	
	08/07/2014	Overdrilled and replaced with MW-72S								
MW-72S / RW-72S	08/08/2014	30.63	23.33	-	-	-	25.30	7.30	-	
	08/11/2014	30.63	22.85	-	-	-	-	7.78	-	
	08/15/2014	30.63	21.35	-	-	-	23.90	9.28	-	
	08/18/2014	30.63	21.34	-	-	-	-	9.29	-	
	08/25/2014	30.63	21.41	-	-	-	-	9.22	-	
	09/02/2014	30.63	21.45	-	-	-	-	9.18	-	
	09/15/2014	30.63	21.54	-	-	-	-	9.09	-	
	09/22/2014	30.63	21.56	-	-	-	-	9.07	-	
	10/01/2014	30.63	21.63	-	-	-	23.90	9.00	-	
	10/10/2014	30.63	21.69	-	-	-	-	8.94	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-72S / RW-72S (cont.)	10/20/2014	30.63	21.73	-	-	-	23.88	8.90	-	
	10/27/2014	30.63	21.80	-	-	-	-	8.83	-	
	11/07/2014	30.63	21.83	-	-	-	-	8.80	-	
	11/12/2014	30.63	21.88	-	-	-	-	8.75	-	
	11/21/2014	30.63	22.04	-	-	-	-	8.59	-	
	11/26/2014	30.63	22.10	-	-	-	-	8.53	-	
	12/05/2014	30.63	22.23	-	-	-	-	8.40	-	
	12/11/2014	30.63	22.11	-	-	-	-	8.52	-	
	12/16/2014	30.63	22.00	-	-	-	-	8.63	-	
	12/23/2014	30.63	21.99	-	-	-	-	8.64	-	
	12/30/2014	30.63	21.98	-	-	-	-	8.65	-	
	01/09/2015	30.63	21.94	-	-	-	-	8.69	-	
	01/16/2015	30.63	21.93	-	-	-	-	8.70	-	
	01/19/2015	30.63	21.88	-	-	-	-	8.75	-	
	01/26/2015	30.63	21.78	-	-	-	-	8.85	-	
	02/03/2015	30.63	21.79	-	-	-	23.93	8.84	-	
	02/09/2015	30.63	21.77	-	-	-	-	8.86	-	
	02/18/2015	30.63	21.85	-	-	-	-	8.78	-	
	02/24/2015	30.63	21.90	-	-	-	23.89	8.73	15:53	
	02/25/2015	30.63	21.87	-	-	-	23.75	8.76	14:10	
	03/04/2015	30.63	21.79	-	-	-	-	8.84	13:45	
	03/11/2015	30.63	21.75	-	-	-	-	8.88	12:12	
	03/18/2015	30.63	21.70	-	-	-	-	8.93	10:35	
	03/26/2015	30.63	21.73	-	-	-	23.90	8.90	11:10	
	04/02/2015	30.63	21.78	-	-	-	23.90	8.85	10:55	
	04/08/2015	30.63	21.82	-	-	-	23.87	8.81	9:35	
	04/13/2015	30.63	21.86	-	-	-	-	8.77	10:08	
	04/23/2015	30.63	21.86	-	-	-	23.87	8.77	11:12	
	04/29/2015	30.63	21.85	-	-	-	23.85	8.78	13:56	
	05/04/2015	30.63	21.84	-	-	-	-	8.79	11:06	
	05/11/2015	30.63	21.91	-	-	-	23.90	8.72	10:48	
	05/13/2015	30.63	21.90	-	-	-	-	8.73	9:57	
	05/21/2015	30.63	21.88	-	-	-	23.90	8.75	11:47	
	05/28/2015	30.63	22.04	-	-	-	23.90	8.59	11:27	
	06/02/2015	30.63	22.03	-	-	-	-	8.60	12:30	
	06/09/2015	30.63	21.67	-	-	-	-	8.96	9:56	
	06/16/2015	30.63	21.68	-	-	-	-	8.95	10:50	
	06/26/2015	30.63	21.55	-	-	-	23.80	9.08	10:17	
	07/01/2015	30.63	21.38	-	-	-	-	9.25	11:45	
	08/04/2015	30.63	21.55	-	-	-	23.90	9.08	12:38	
	08/05/2015	30.63	21.51	-	-	-	23.90	9.12	9:25	
	12/01/2015	30.63	24.65	-	-	-	26.17	5.98	11:26	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-72S / RW-72S (cont.)	03/14/2016	30.63	23.71	-	-	-	26.02	6.92	12:25	
	05/23/2016	30.63	25.75	-	-	-	-	4.88	11:43	Obstruction at TDW
	05/25/2016	30.63	24.22	-	-	-	25.85	6.41	-	
	06/21/2016	30.63	26.04	-	-	-	-	4.59	10:17	
MW-72 / RW-72	08/08/2014	31.06	26.97	-	-	-	34.55	4.09	-	
	08/11/2014	31.06	26.85	-	-	-	-	4.21	-	
	08/15/2014	31.06	27.43	-	-	-	-	3.63	-	
	08/16/2014	31.06	27.05	-	-	-	34.43	4.01	-	
	08/18/2014	31.06	27.00	-	-	-	-	4.06	-	
	08/25/2014	31.06	26.66	-	-	-	-	4.40	-	
	09/02/2014	31.06	27.11	-	-	-	-	3.95	-	
	09/15/2014	31.06	27.02	-	-	-	-	4.04	-	
	09/22/2014	31.06	26.88	-	-	-	-	4.18	-	
	10/01/2014	31.06	27.10	-	-	-	34.48	3.96	-	
	10/10/2014	31.06	26.94	-	-	-	-	4.12	-	
	10/20/2014	31.06	27.19	-	-	-	34.43	3.87	-	
	10/27/2014	31.06	27.34	-	-	-	-	3.72	-	
	11/07/2014	31.06	27.04	-	-	-	-	4.02	-	
	11/12/2014	31.06	27.12	-	-	-	-	3.94	-	
	11/21/2014	31.06	27.82	-	-	-	-	3.24	-	
	11/26/2014	31.06	27.36	-	-	-	-	3.70	-	
	12/05/2014	31.06	27.01	-	-	-	-	4.05	-	
	12/11/2014	31.06	27.03	-	-	-	-	4.03	-	
	12/16/2014	31.06	26.91	-	-	-	-	4.15	-	
	12/23/2014	31.06	26.89	-	-	-	-	4.17	-	
	12/30/2014	31.06	27.36	-	-	-	-	3.70	-	
	01/09/2015	31.06	27.27	-	-	-	-	3.79	-	
	01/16/2015	31.06	27.03	-	-	-	-	4.03	-	
	01/19/2015	31.06	26.98	-	-	-	-	4.08	-	
	01/26/2015	31.06	26.96	-	-	-	-	4.10	-	
	02/03/2015	31.06	27.65	-	-	-	34.19	3.41	-	
	02/09/2015	31.06	27.14	-	-	-	-	3.92	-	
	02/18/2015	31.06	27.11	-	-	-	-	3.95	-	
	02/24/2015	31.06	27.27	-	-	-	-	3.79	13:35	
	02/25/2015	31.06	27.33	-	-	-	34.28	3.73	9:50	
	03/04/2015	31.06	27.17	-	-	-	-	3.89	13:48	
	03/11/2015	31.06	26.98	-	-	-	-	4.08	12:15	
	03/18/2015	31.06	26.94	-	-	-	-	4.12	10:38	
	03/26/2015	31.06	26.78	-	-	-	34.10	4.28	11:13	
	04/02/2015	31.06	26.86	-	-	-	34.15	4.20	10:57	
	04/08/2015	31.06	27.20	-	-	-	33.98	3.86	9:40	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-72 / RW-72 (cont.)	04/13/2015	31.06	27.11	-	-	-	-	3.95	10:11	
	04/23/2015	31.06	26.61	-	-	-	34.13	4.45	11:15	
	04/29/2015	31.06	26.76	-	-	-	33.95	4.30	14:00	
	05/04/2015	31.06	26.60	-	-	-	-	4.46	11:09	
	05/11/2015	31.06	26.55	-	-	-	33.90	4.51	14:58	
	05/13/2015	31.06	27.12	-	-	-	-	3.94	9:55	
	05/21/2015	31.06	26.81	-	-	-	34.04	4.25	11:49	
	05/28/2015	31.06	27.05	-	-	-	34.00	4.01	11:28	
	06/02/2015	31.06	26.68	-	-	-	-	4.38	12:33	
	06/09/2015	31.06	26.46	-	-	-	-	4.60	10:00	
	06/16/2015	31.06	26.48	-	-	-	-	4.58	10:53	
	06/26/2015	31.06	26.42	-	-	-	34.00	4.64	10:19	
	07/01/2015	31.06	25.91	-	-	-	-	5.15	11:48	
	08/04/2015	31.06	26.19	-	-	-	34.14	4.87	12:35	
	08/05/2015	31.06	26.61	-	-	-	34.26	4.45	9:22	
	12/01/2015	31.06	26.68	-	-	-	-	4.38	13:44	
	03/14/2016	31.06	26.87	-	-	-		4.19	9:05	pump in well
	03/30/2016	31.06	31.47	-	-	-	-	-0.41	-	O&M event
	04/21/2016	31.06	31.45	-	-	-	-	-0.39	10:22	
	05/23/2016	31.06	31.50	-	-	-	-	-0.44		
	06/21/2016	31.06	31.50	-	-	-	-	-0.44	10:21	
MW-100S	08/15/2014	31.06	21.32	-	-	-	24.22	9.74	-	
	08/18/2014	31.06	21.28	-	-	-	-	9.78	-	
	08/25/2014	31.06	21.31	-	-		-	9.75	-	
	09/02/2014	31.06	21.39	-	-	-	-	9.67	-	
	09/15/2014	31.06	21.39	-	-	-	-	9.67	-	
	09/22/2014	31.06	21.52	-	-	-	-	9.54	-	
	10/01/2014	31.06	21.62	-	-	-	24.16	9.44	-	
	10/10/2014	31.06	21.61	-	-	-	-	9.45	-	
	10/20/2014	31.06	21.67	-	-	-	24.17	9.39	-	
	02/24/2015	31.06	21.75	-	-	-	24.18	9.31	15:18	
	05/11/2015	31.06	21.55	-	-	-	24.20	9.51	9:55	
	08/04/2015	31.06	20.66	-	-	-	24.15	10.40	12:44	
	08/05/2015	31.06	20.70	-	-	-	24.15	10.36	10:03	
	12/01/2015	31.06	21.57	-	-	-	24.16	9.49	11:38	
	03/14/2016	31.06	21.41	-	-	-	24.20	9.65	9:40	
	05/23/2016	31.06	21.33	-	-	-	24.31	9.73	10:46	
MW-100	08/15/2014	30.78	26.80	-	-	-	36.90	3.98	-	
	08/18/2014	30.78	26.66	-	-	-	-	4.12	-	
	08/25/2014	30.78	26.26	-	-	-	-	4.52	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-100 (cont.)	09/02/2014	30.78	26.70	-	-	-	-	4.08	-	
	09/15/2014	30.78	26.65	-	-	-	-	4.13	-	
	09/22/2014	30.78	26.48	-	-	-	-	4.30	-	
	10/01/2014	30.78	26.69	-	-	-	36.68	4.09	-	
	10/10/2014	30.78	26.60	-	-	-	-	4.18	-	
	10/20/2014	30.78	26.86	-	-	-	36.58	3.92	-	
	02/24/2015	30.78	26.88	-	-	-	36.61	3.90	13:08	
	02/25/2015	30.78	26.87	-	-	-	36.62	3.91	11:32	
	05/11/2015	30.78	26.17	-	-	-	36.60	4.61	14:57	
	08/04/2015	30.78	25.80	-	-	-	36.80	4.98	12:31	
	08/05/2015	30.78	26.22	-	-	-	36.61	4.56	9:59	
	12/01/2015	30.78	26.25	-	-	-	36.35	4.53	13:24	
	03/14/2016	30.78	26.54	-	-	-	36.46	4.24	9:54	
	05/23/2016	30.78	26.74	-	-	-	36.69	4.04	10:28	
MW-102	08/15/2014	29.72	29.91	-	-	-	36.64	-0.19	-	
	08/18/2014	29.72	29.81	-	-	-	-	-0.09	-	
	08/25/2014	29.72	28.40	-	-	-	-	1.32	-	
	09/02/2014	29.72	27.23	-	-	-	-	2.49	-	
	09/15/2014	29.72	24.97	-	-	-	-	4.75	-	
	09/22/2014	29.72	24.83	-	-	-	-	4.89	-	
	10/01/2014	29.72	24.73	-	-	-	36.45	4.99	-	
	10/10/2014	29.72	24.66	-	-	-	-	5.06	-	
	10/20/2014	29.72	24.78	-	-	-	36.44	4.94	-	
	05/11/2015	29.72	24.44	-	-	-	36.40	5.28	15:01	
	08/04/2015	29.72	23.39	-	-	-	36.43	6.33	12:35	
	08/05/2015	29.72	23.50	-	-	-	36.42	6.22	10:14	
	12/01/2015	29.72	22.61	-	-	-	31.80	7.11	13:52	
	03/14/2016	29.72	24.11	-	-	-	36.41	5.61	10:04	
	05/23/2016	29.72	23.33	-	-	-	36.40	6.39	10:15	
MW-103	07/24/2014	11.07	7.87	-	-	-	-	3.20	-	
	08/08/2014	11.07	4.61	-	-	-	15.06	6.46	-	
	08/11/2014	11.07	4.63	-	-	-	-	6.44	-	
	08/15/2014	11.07	4.26	-	-	-	14.95	6.81	-	
	08/18/2014	11.07	4.48	-	-	-	-	6.59	-	
	08/25/2014	11.07	4.45	-	-	-	-	6.62	-	
	09/02/2014	11.07	4.50	-	-	-	-	6.57	-	
	09/15/2014	11.07	4.63	-	-	-	-	6.44	-	
	09/22/2014	11.07	4.76	-	-	-	-	6.31	-	
	10/01/2014	11.07	4.85	-	-	-	14.88	6.22	-	
	10/10/2014	11.07	4.93	-	-	-	-	6.14	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-103 (cont.)	10/20/2014	11.07	4.70	-	-	-	14.88	6.37	-	
	02/24/2015	11.07	5.02	-	-	-	-	6.05	15:27	
	02/26/2015	11.07	5.21	-	-	-	14.90	5.86	11:53	
	05/11/2015	11.07	4.67	-	-	-	14.88	6.40	10:20	
	08/04/2015	11.07	3.69	-	-	-	14.88	7.38	10:19	
	08/05/2015	11.07	3.71	-	-	-	14.87	7.36	10:20	
	12/01/2015	11.07	9.70	-	-	-	-	1.37	11:30	
	03/14/2016	11.07	4.15	-	-	-	14.89	6.92	10:08	
	05/23/2016	11.07	4.01	-	-	-	14.80	7.06	11:28	
MW-104	07/24/2014	12.00	5.24	-	-	-	-	6.76	-	
	08/08/2014	12.00	4.28	-	-	-	12.05	7.72	-	
	08/11/2014	12.00	4.40	-	-	-	-	7.60	-	
	08/15/2014	12.00	3.95	-	-	-	12.20	8.05	-	
	08/18/2014	12.00	4.22	-	-	-	-	7.78	-	
	08/25/2014	12.00	4.29	-	-	-	-	7.71	-	
	09/02/2014	12.00	4.38	-	-	-	-	7.62	-	
	09/15/2014	12.00	4.52	-	-	-	-	7.48	-	
	09/22/2014	12.00	4.73	-	-	-	-	7.27	-	
	10/01/2014	12.00	4.73	-	-	-	11.98	7.27	-	
	10/10/2014	12.00	4.77	-	-	-	-	7.23	-	
	10/20/2014	12.00	3.98	-	-	-	12.07	8.02	-	
	02/24/2015	12.00	5.43	-	-	-	-	6.57	15:38	
	02/26/2015	12.00	5.70	-	-	-	12.00	6.30	12:07	
	05/11/2015	12.00	4.51	-	-	-	12.10	7.49	10:25	
	08/04/2015	12.00	3.82	-	-	-	12.00	8.18	10:08	
	08/05/2015	12.00	3.85	-	-	-	12.50	8.15	10:23	
	12/01/2015	12.00	4.29	-	-	-	12.05	7.71	11:42	
	03/14/2016	12.00	3.80	-	-	-	11.99	8.20	10:14	
	05/23/2016	12.00	3.72	-	-	-	12.00	8.28	11:28	
MW-105	07/24/2014	10.94	2.34	-	-	-	-	8.60	-	
	08/08/2014	10.94	2.15	-	-	-	10.06	8.79	-	
	08/11/2014	10.94	2.39	-	-	-	-	8.55	-	
	08/15/2014	10.94	1.67	-	-	-	9.95	9.27	-	
	08/18/2014	10.94	2.06	-	-	-	-	8.88	-	
	08/25/2014	10.94	2.25	-	-	-	-	8.69	-	
	09/02/2014	10.94	2.24	-	-	-	-	8.70	-	
	09/15/2014	10.94	2.32	-	-	-	-	8.62	-	
	09/22/2014	10.94	2.71	-	-	-	-	8.23	-	
	10/01/2014	10.94	2.57	-	-	-	9.88	8.37	-	
	10/10/2014	10.94	2.70	-	-	-	-	8.24	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-105 (cont.)	10/20/2014	10.94	1.70	-	-	-	9.93	9.24	-	
	05/11/2015	10.94	2.40	-	-	-	9.70	8.54	10:35	
	08/04/2015	10.94	1.65	-	-	-	9.62	9.29	10:15	
	08/05/2015	10.94	1.67	-	-	-	9.60	9.27	10:26	
	12/01/2015	10.94	NG	-	-	-	-	-	-	Well flooded
	03/14/2016	10.94	0.30	-	-	-	9.24	10.64	10:17	
	05/23/2016	10.94	0.91	-	-	-	9.50	10.03	11:36	
MW-106	08/08/2014	11.12	8.30	-	-	-	10.27	2.82	-	
	08/11/2014	11.12	8.27	-	-	-	-	2.85	-	
	08/15/2014	11.12	7.63	-	-	-	9.88	3.49	-	
	08/18/2014	11.12	7.58	-	-	-	-	3.54	-	
	08/25/2014	11.12	7.52	-	-	-	-	3.60	-	
	09/02/2014	11.12	7.79	-	-	-	-	3.33	-	
	09/15/2014	11.12	7.90	-	-	-	-	3.22	-	
	09/22/2014	11.12	7.87	-	-	-	-	3.25	-	
	10/01/2014	11.12	7.93	-	-	-	9.88	3.19	-	
	10/10/2014	11.12	7.71	-	-	-	-	3.41	-	
	10/13/2014	11.12	7.92	-	-	-	-	3.20	-	
	10/20/2014	11.12	7.86	-	-	-	9.88	3.26	-	
	10/27/2014	11.12	7.77	-	-	-	-	3.35	-	
	11/07/2014	11.12	7.83	-	-	-	-	3.29	-	
	11/12/2014	11.12	7.88	-	-	-	-	3.24	-	
	11/21/2014	11.12	8.23	-	-	-	-	2.89	-	
	11/26/2014	11.12	8.03	-	-	-	-	3.09	-	
	12/05/2014	11.12	7.21	-	-	-	-	3.91	-	
	12/11/2014	11.12	6.95	-	-	-	-	4.17	-	
	12/16/2014	11.12	7.18	-	-	-	-	3.94	-	
	12/23/2014	11.12	7.31	-	-	-	-	3.81	-	
	12/30/2014	11.12	6.97	-	-	-	-	4.15	-	
	01/09/2015	11.12	7.34	-	-	-	-	3.78	-	
	01/16/2015	11.12	6.88	-	-	-	-	4.24	-	
	01/19/2015	11.12	6.77	-	-	-	-	4.35	-	
	01/26/2015	11.12	5.79	-	-	-	-	5.33	-	
	02/03/2015	11.12	7.24	-	-	-	9.90	3.88	-	
	02/09/2015	11.12	7.42	-	-	-	-	3.70	-	
	02/18/2015	11.12	7.63	-	-	-	-	3.49	-	
	02/24/2015	11.12	7.76	-	-	-	9.84	3.36	13:18	
	02/25/2015	11.12	7.80	-	-	-	9.79	3.32	10:20	
	03/04/2015	11.12	7.57	-	-	-	-	3.55	13:52	
	03/11/2015	11.12	5.17	-	-	-	-	5.95	12:19	
	03/18/2015	11.12	6.39	-	-	-	-	4.73	10:42	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-106 (cont.)	03/26/2015	11.12	7.02	-	-	-	9.90	4.10	11:02	
	04/02/2015	11.12	7.15	-	-	-	9.85	3.97	10:47	
	04/08/2015	11.12	7.55	-	-	-	9.87	3.57	9:46	
	04/13/2015	11.12	7.63	-	-	-	-	3.49	10:18	
	04/23/2015	11.12	6.70	-	-	-	9.85	4.42	11:00	
	04/29/2015	11.12	7.15	-	-	-	9.85	3.97	13:34	
	05/04/2015	11.12	7.23	-	-	-	-	3.89	11:17	
	05/11/2015	11.12	7.43	-	-	-	9.85	3.69	14:51	
	05/12/2015	11.12	7.50	-	-	-	-	3.62	10:35	
	05/21/2015	11.12	7.62	-	-	-	9.85	3.50	11:55	
	05/28/2015	11.12	7.81	-	-	-	9.80	3.31	11:11	
	06/02/2015	11.12	6.66	-	-	-	-	4.46	12:38	
	06/09/2015	11.12	6.37	-	-	-	-	4.75	10:04	
	06/16/2015	11.12	7.21	-	-	-	-	3.91	11:01	
	06/26/2015	11.12	6.27	-	-	-	9.90	4.85	9:13	
	07/01/2015	11.12	4.77	-	-	-	-	6.35	11:54	
	08/04/2015	11.12	7.42	-	-	-	9.86	3.70	12:19	
	12/01/2015	11.12	7.65	-	-	-	9.85	3.47	13:45	
	03/14/2016	11.12	7.33	-	-	-	9.84	3.79	9:10	
	04/21/2016	11.12	7.85	-	-	-	9.80	3.27	9:42	
	05/05/2016	11.12	6.97	-	-	-	-	4.15	12:17	
	05/23/2016	11.12	6.52	-	-	-	9.80	4.60	10:21	
	05/24/2016	11.12	6.26	-	-	-	9.60	4.86	13:00	
	06/21/2016	11.12	7.90	-	-	-	-	3.22	9:45	
MW-107	08/08/2014	15.74	10.62	-	-	-	11.57	5.12	-	
	08/11/2014	15.74	9.02	-	-	-	-	6.72	-	
	08/15/2014	15.74	8.94	-	-	-	-	6.80	-	
	08/16/2014	15.74	8.93	-	-	-	11.57	6.81	-	
	08/18/2014	15.74	8.89	-	-	-	-	6.85	-	
	08/25/2014	15.74	8.38	-	-	-	-	7.36	-	
	09/02/2014	15.74	8.43	-	-	-	-	7.31	-	
	09/15/2014	15.74	9.39	-	-	-	-	6.35	-	
	09/22/2014	15.74	9.92	-	-	-	-	5.82	-	
	10/01/2014	15.74	10.32	-	-	-	11.03	5.42	-	
	10/10/2014	15.74	10.53	-	-	-	-	5.21	-	
	10/13/2014	15.74	10.67	-	-	-	-	5.07	-	
	10/20/2014	15.74	8.43	-	-	-	11.04	7.31	-	
	10/27/2014	15.74	7.97	-	-	-	-	7.77	-	
	11/07/2014	15.74	8.32	-	-	-	-	7.42	-	
	11/12/2014	15.74	8.63	-	-	-	-	7.11	-	
	11/21/2014	15.74	9.38	-	-	-	-	6.36	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-107 (cont.)	11/26/2014	15.74	8.93	-	-	-	-	6.81	-	
	12/05/2014	15.74	7.47	-	-	-	-	8.27	-	
	12/11/2014	15.74	7.43	-	-	-	-	8.31	-	
	12/16/2014	15.74	8.28	-	-	-	-	7.46	-	
	12/23/2014	15.74	8.35	-	-	-	-	7.39	-	
	12/30/2014	15.74	8.20	-	-	-	-	7.54	-	
	01/09/2015	15.74	8.03	-	-	-	-	7.71	-	
	01/16/2015	15.74	7.68	-	-	-	-	8.06	-	
	01/19/2015	15.74	6.76	-	-	-	-	8.98	-	
	01/26/2015	15.74	5.84	-	-	-	-	9.90	-	
	02/03/2015	15.74	8.63	-	-	-	11.04	7.11	-	
	02/09/2015	15.74	8.73	-	-	-	-	7.01	-	
	02/18/2015	15.74	9.21	-	-	-	-	6.53	-	
	02/24/2015	15.74	9.78	-	-	-	11.00	5.96	13:23	
	02/25/2015	15.74	9.64	-	-	-	11.00	6.10	11:40	
	03/04/2015	15.74	9.48	-	-	-	-	6.26	13:55	
	03/11/2015	15.74	4.08	-	-	-	-	11.66	12:22	
	03/18/2015	15.74	7.44	-	-	-	-	8.30	10:45	
	03/26/2015	15.74	8.98	-	-	-	11.00	6.76	11:05	
	04/02/2015	15.74	8.63	-	-	-	11.00	7.11	10:49	
	04/08/2015	15.74	9.00	-	-	-	11.00	6.74	9:45	
	04/13/2015	15.74	9.06	-	-	-	-	6.68	10:21	
	04/23/2015	15.74	7.18	-	-	-	11.00	8.56	11:04	
	04/29/2015	15.74	9.14	-	-	-	11.00	6.60	13:39	
	05/04/2015	15.74	9.03	-	-	-	-	6.71	11:14	
	05/11/2015	15.74	9.19	-	-	-	11.00	6.55	14:49	
	05/12/2015	15.74	9.25	-	-	-	-	6.49	10:37	
	05/21/2015	15.74	9.21	-	-	-	11.00	6.53	11:57	
	05/28/2015	15.74	9.27	-	-	-	11.00	6.47	11:13	
	06/02/2015	15.74	3.95	-	-	-	-	11.79	12:41	
	06/09/2015	15.74	6.78	-	-	-	-	8.96	10:07	
	06/16/2015	15.74	9.05	-	-	-	-	6.69	10:58	
	06/26/2015	15.74	6.86	-	-	-	11.00	8.88	9:15	
	07/01/2015	15.74	4.03	-	-	-	-	11.71	11:51	
	08/04/2015	15.74	9.40	-	-	-	11.00	6.34	12:21	
	12/01/2015	15.74	8.80	-	-	-	11.01	6.94	13:47	
	03/14/2016	15.74	8.09	-	-	-	11.03	7.65	9:15	
	05/23/2016	15.74	7.29	-	-	-	10.90	8.45	10:26	
MW-108	08/08/2014	15.61	DRY	-	-	-	9.49	-	-	
	08/11/2014	15.61	DRY	-	-	-	9.52	-	-	
	08/15/2014	15.61	9.01	-	-	-	9.22	6.60	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-108 (cont.)	08/18/2014	15.61	9.07	-	-	-	-	6.54	-	
	08/25/2014	15.61	DRY	-	-	-	9.23	-	-	
	09/02/2014	15.61	DRY	-	-	-	9.23	-	-	
	09/15/2014	15.61	DRY	-	-	-	9.22	-	-	
	09/22/2014	15.61	DRY	-	-	-	-	-	-	
	10/01/2014	15.61	DRY	-	-	-	10.48	-	-	
	10/10/2014	15.61	DRY	-	-	-	-	-	-	
	10/20/2014	15.61	DRY	-	-	-	10.48	-	-	
	05/11/2015	15.61	DRY	-	-	-	9.20	-	14:47	
	05/12/2015	15.61	DRY	-	-	-	-	-	10:40	
	08/04/2015	15.61	DRY	-	-	-	9.21	-	12:27	
	12/01/2015	15.61	DRY	-	-	-	9.21	-	13:49	
	03/14/2016	15.61	DRY	-	-	-	9.22	-	9:18	
	05/23/2016	15.61	8.37	-	-	-	9.20	7.24	10:28	
	05/25/2016	15.61	8.34	-	-	-	9.20	7.27	12:13	
MW-109S	08/25/2014	19.27	10.06	-	-	-	-	9.21	-	
	09/15/2014	19.27	10.19	-	-	-	-	9.08	-	
	09/22/2014	19.27	10.24	-	-	-	-	9.03	-	
	10/01/2014	19.27	10.33	-	-	-	13.20	8.94	-	
	10/10/2014	19.27	10.47	-	-	-	-	8.80	-	
	10/13/2014	19.27	10.58	-	-	-	-	8.69	-	
	10/20/2014	19.27	10.67	-	-	-	13.20	8.60	-	
	10/27/2014	19.27	10.83	-	-	-	-	8.44	-	
	11/07/2014	19.27	10.76	-	-	-	-	8.51	-	
	11/12/2014	19.27	10.85	-	-	-	-	8.42	-	
	11/21/2014	19.27	11.04	-	-	-	-	8.23	-	
	11/26/2014	19.27	11.02	-	-	-	-	8.25	-	
	02/24/2015	19.27	11.43	-	-	-	13.06	7.84	13:55	
	02/26/2015	19.27	11.36	-	-	-	13.06	7.91	10:40	
	05/11/2015	19.27	11.31	-	-	-	13.20	7.96	15:06	
	05/12/2015	19.27	11.28	-	-	-	13.20	7.99	10:00	
	05/21/2015	19.27	11.40	-	-	-	13.06	7.87	12:34	
MW-109	08/25/2014	19.16	14.59	-	-	-	-	4.57	-	
	09/15/2014	19.16	14.98	-	-	-	-	4.18	-	
	09/22/2014	19.16	14.88	-	-	-	-	4.28	-	
	10/01/2014	19.16	15.07	-	-	-	22.79	4.09	-	
	10/10/2014	19.16	14.96	-	-	-	-	4.20	-	
	10/13/2014	19.16	15.09	-	-	-	-	4.07	-	
	10/20/2014	19.16	15.22	-	-	-	22.72	3.94	-	
	10/27/2014	19.16	15.27	-	-	-	-	3.89	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-109 (cont.)	11/07/2014	19.16	15.07	-	-	-	-	4.09	-	
	11/12/2014	19.16	15.13	-	-	-	-	4.03	-	
	11/21/2014	19.16	15.81	-	-	-	-	3.35	-	
	11/26/2014	19.16	15.33	-	-	-	-	3.83	-	
	02/24/2015	19.16	15.25	-	-	-	22.80	3.91	13:58	
	02/26/2015	19.16	15.25	-	-	-	22.80	3.91	10:44	
	05/11/2015	19.16	14.61	-	-	-	22.84	4.55	15:04	
	05/12/2015	19.16	14.77	-	-	-	22.84	4.39	9:57	
	05/21/2015	19.16	15.23	-	-	-	22.80	3.93	12:36	
MW-110S	08/25/2014	19.13	10.05	-	-	-	12.70	9.08	-	
	09/15/2014	19.13	10.23	-	-	-	-	8.90	-	
	09/22/2014	19.13	10.28	-	-	-	-	8.85	-	
	10/01/2014	19.13	10.33	-	-	-	12.65	8.80	-	
	10/10/2014	19.13	10.41	-	-	-	-	8.72	-	
	10/20/2014	19.13	10.45	-	-	-	12.66	8.68	-	
	10/27/2014	19.13	10.48	-	-	-	-	8.65	-	
	11/07/2014	19.13	10.50	-	-	-	-	8.63	-	
	11/12/2014	19.13	10.53	-	-	-	-	8.60	-	
	11/21/2014	19.13	10.60	-	-	-	-	8.53	-	
	11/26/2014	19.13	10.60	-	-	-	-	8.53	-	
	02/24/2015	19.13	11.53	-	-	-	12.67	7.60	13:49	
	02/26/2015	19.13	11.59	-	-	-	12.67	7.54	10:33	
	05/11/2015	19.13	12.24	-	-	-	12.65	6.89	14:56	
	05/12/2015	19.13	12.24	-	-	-	12.65	6.89	9:47	
	05/21/2015	19.13	11.55	-	-	-	12.67	7.58	12:38	
MW-110	08/25/2014	19.51	14.70	-	-	-	24.40	4.81	-	
	09/15/2014	19.51	15.11	-	-	-	-	4.40	-	
	09/22/2014	19.51	14.98	-	-	-	-	4.53	-	
	10/01/2014	19.51	15.18	-	-	-	23.33	4.33	-	
	10/10/2014	19.51	15.07	-	-	-	-	4.44	-	
	10/20/2014	19.51	14.35	-	-	-	23.34	5.16	-	
	10/27/2014	19.51	14.39	-	-	-	-	5.12	-	
	11/07/2014	19.51	15.18	-	-	-	-	4.33	-	
	11/12/2014	19.51	15.25	-	-	-	-	4.26	-	
	11/21/2014	19.51	15.97	-	-	-	-	3.54	-	
	11/26/2014	19.51	15.45	-	-	-	-	4.06	-	
	02/24/2015	19.51	15.38	-	-	-	23.36	4.13	13:52	
	02/26/2015	19.51	15.38	-	-	-	23.36	4.13	10:36	
	05/11/2015	19.51	14.74	-	-	-	23.42	4.77	14:54	
	05/12/2015	19.51	14.91	-	-	-	23.42	4.60	9:44	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-110 (cont.)	05/21/2015	19.51	15.40	-	-	-	23.36	4.11	12:40	
MW-111	10/10/2014	19.17	14.97	-	-	-	-	4.20	-	
	10/20/2014	19.17	14.25	-	-	-	21.97	4.92	-	
	02/24/2015	19.17	15.30	-	-	-	21.96	3.87	13:43	
	02/26/2015	19.17	15.28	-	-	-	21.96	3.89	10:25	
	05/11/2015	19.17	14.66	-	-	-	21.87	4.51	14:51	
	05/12/2015	19.17	14.78	-	-	-	21.87	4.39	9:41	
MW-112S	08/15/2014	19.22	10.31	-	-	-	12.40	8.91	-	
	08/18/2014	19.22	10.22	-	-	-	12.45	9.00	-	
	08/25/2014	19.22	10.29	-	-	-	-	8.93	-	
	09/15/2014	19.22	10.43	-	-	-	-	8.79	-	
	09/22/2014	19.22	10.56	-	-	-	-	8.66	-	
	10/01/2014	19.22	10.58	-	-	-	12.46	8.64	-	
	10/10/2014	19.22	10.64	-	-	-	-	8.58	-	
	10/20/2014	19.22	10.75	-	-	-	12.47	8.47	-	
	02/24/2015	19.22	11.30	-	-	-	12.48	7.92	13:37	
	02/26/2015	19.22	11.34	-	-	-	12.48	7.88	10:19	
	05/11/2015	19.22	11.21	-	-	-	12.44	8.01	15:01	
	05/12/2015	19.22	11.21	-	-	-	12.44	8.01	9:54	
MW-112	08/15/2014	19.08	15.11	-	-	-	22.55	3.97	-	
	08/18/2014	19.08	14.43	-	-	-	22.31	4.65	-	
	08/25/2014	19.08	14.53	-	-	-	-	4.55	-	
	09/02/2014	19.08	NR[3]	-	-	-	-	-	-	
	09/15/2014	19.08	14.85	-	-	-	-	4.23	-	
	09/22/2014	19.08	14.77	-	-	-	-	4.31	-	
	10/01/2014	19.08	14.92	-	-	-	22.83	4.16	-	
	10/10/2014	19.08	14.87	-	-	-	-	4.21	-	
	10/20/2014	19.08	15.15	-	-	-	22.83	3.93	-	
	02/24/2015	19.08	15.19	-	-	-	22.75	3.89	13:40	
	02/26/2015	19.08	15.15	-	-	-	22.75	3.93	10:22	
	05/11/2015	19.08	14.52	-	-	-	22.83	4.56	14:59	
	05/12/2015	19.08	14.64	-	-	-	22.83	4.44	9:51	
MW-113	08/25/2014	19.11	14.49	-	-	-	-	4.62	-	
	09/15/2014	19.11	14.96	-	-	-	-	4.15	-	
	09/22/2014	19.11	14.83	-	-	-	-	4.28	-	
	10/01/2014	19.11	15.04	-	-	-	22.95	4.07	-	
	10/10/2014	19.11	14.84	-	-	-	-	4.27	-	
	10/20/2014	19.11	15.20	-	-	-	22.95	3.91	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-113 (cont.)	02/24/2015	19.11	15.24	-	-	-	22.95	3.87	13:46	
	02/26/2015	19.11	15.27	-	-	-	22.95	3.84	10:29	
	05/11/2015	19.11	14.58	-	-	-	22.77	4.53	14:48	
	05/12/2015	19.11	14.81	-	-	-	22.77	4.30	9:38	
MW-114	08/25/2014	19.26	14.62	-	-	-	22.78	4.64	-	
	09/15/2014	19.26	14.89	-	-	-	-	4.37	-	
	09/22/2014	19.26	14.87	-	-	-	-	4.39	-	
	10/01/2014	19.26	14.96	-	-	-	22.77	4.30	-	
	10/10/2014	19.26	15.01	-	-	-	-	4.25	-	
	10/20/2014	19.26	15.29	-	-	-	22.77	3.97	-	
	02/24/2015	19.26	15.25	-	-	-	22.77	4.01	13:34	
	02/26/2015	19.26	15.10	-	-	-	22.77	4.16	10:15	
	05/11/2015	19.26	14.52	-	-	-	22.75	4.74	14:45	
	05/12/2015	19.26	14.51	-	-	-	22.75	4.75	9:35	
MW-121	07/08/2015	31.48	26.52	-	-	-	-	4.96	11:21	
	07/13/2015	31.48	26.14	-	-	-	36.93	5.34	9:28	
	07/20/2015	31.48	26.37	-	-	-	-	5.11	9:25	
	07/28/2015	31.48	26.53	-	-	-	37.06	4.95	11:38	
	08/04/2015	30.88	25.91	-	-	-	36.33	4.97	12:22	
	08/11/2015	30.88	25.58	-	-	-	36.31	5.30	9:59	
	08/18/2015	30.88	26.12	-	-	-	-	4.76	10:23	
	08/24/2015	30.88	26.02	-	-	-	-	4.86	10:23	
	09/02/2015	30.88	26.38	-	-	-	36.31	4.50	9:45	
	09/09/2015	30.88	26.11	-	-	-	36.29	4.77	10:23	
	09/17/2015	30.88	26.51	-	-	-	36.41	4.37	10:27	
	09/23/2015	30.88	26.32	-	-	-	-	4.56	10:43	
	09/28/2015	30.88	26.18	-	-	-	36.25	4.70	9:24	
	10/05/2015	30.88	26.02	-	-	-	36.25	4.86	9:18	
	11/10/2015	30.88	26.62	-	-	-	-	4.26	13:06	
	12/01/2015	30.88	26.48	-	-	-	36.20	4.40	13:56	
	01/27/2016	30.88	26.58	-	-	-	-	4.30	9:44	
	02/15/2016	30.88	27.11	-	-	-	-	3.77	9:30	
	03/14/2016	30.88	26.57	-	-	-	36.28	4.31	8:45	
	04/21/2016	30.88	30.48	-	-	-	-	0.40	9:38	
	05/23/2016	30.88	27.26	-	-	-	37.06	3.62	10:10	
	05/25/2016	30.88	29.73	-	-	-	36.60	1.15	-	
	06/21/2016	30.88	29.17	-	-	-	-	1.71	11:07	
MW-122	07/08/2015	31.12	25.58	-	-	-	-	5.54	11:32	
	07/13/2015	31.12	25.36	-	-	-	34.72	5.76	9:29	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-122 (cont.)	07/20/2015	31.12	25.20	-	-	-	-	5.92	9:31	
	07/28/2015	31.12	25.38	-	-	-	34.85	5.74	11:13	
	08/04/2015	31.12	25.54	-	-	-	34.61	5.58	12:24	
	08/11/2015	31.12	25.46	-	-	-	34.79	5.66	9:58	
	08/18/2015	31.12	25.98	-	-	-	-	5.14	10:30	
	08/24/2015	31.12	25.83	-	-	-	-	5.29	10:37	
	09/02/2015	31.12	26.21	-	-	-	34.76	4.91	9:41	
	09/09/2015	31.12	26.03	-	-	-	34.78	5.09	10:21	
	09/17/2015	31.12	26.45	-	-	-	34.83	4.67	10:25	
	09/23/2015	31.12	26.18	-	-	-	-	4.94	10:46	
	09/28/2015	31.12	25.98	-	-	-	34.72	5.14	9:48	
	10/05/2015	31.12	25.50	TRACE	TRACE	-	34.72	5.62	9:13	
	11/10/2015	31.12	26.32	-	-	-	-	4.80	13:07	
	12/01/2015	31.12	26.57	-	-	-	34.72	4.55	13:53	
	01/27/2016	31.12	26.63	-	-	-	-	4.49	9:47	
	02/15/2016	31.12	27.05	-	-	-	-	4.07	9:33	
	03/14/2016	31.12	26.47	-	-	-	34.77	4.65	8:50	
	04/21/2016	31.12	27.32	-	-	-	-	3.80	9:42	
	05/23/2016	31.12	27.35	-	-	-	34.82	3.77	10:15	
	05/25/2016	31.12	27.51	-	-	-	34.90	3.61	-	
	06/21/2016	31.12	27.33	-	-	-	-	3.79	11:10	
MW-123S / RW-123S	07/08/2015	31.09	DRY	-	-	-	24.92	-	11:35	
	07/13/2015	31.09	23.96	-	-	-	24.90	7.13	9:17	
	07/20/2015	31.09	22.37	-	-	-	-	8.72	9:22	
	07/28/2015	31.09	22.15	-	-	-	24.98	8.94	11:05	
	08/04/2015	31.09	22.04	-	-	-	24.91	9.05	13:08	
	08/05/2015	31.09	22.07	-	-	-	24.93	9.02	9:16	
	08/11/2015	31.09	22.04	-	-	-	24.91	9.05	10:10	
	08/18/2015	31.09	22.05	-	-	-	-	9.04	9:50	
	08/24/2015	31.09	22.08	-	-	-	-	9.01	9:53	
	09/02/2015	31.09	22.26	22.25	0.01	TRACE	24.92	8.84	9:28	
	09/09/2015	31.09	22.33	-	-	-	24.92	8.76	10:28	
	09/17/2015	31.09	22.56	-	-	-	24.97	8.53	10:19	
	09/23/2015	31.09	22.57	-	-	-	-	8.52	10:11	
	09/28/2015	31.09	22.59	-	-	-	24.91	8.50	9:30	
	10/05/2015	31.09	22.61	TRACE	TRACE	-	24.92	8.48	9:09	
	11/10/2015	31.09	25.31	-	-	-	-	5.78	12:43	
	12/01/2015	33.54	25.53	-	-	-	27.40	8.01	10:55	
	01/27/2016	33.54	25.76	-	-	-	-	7.78	9:57	
	02/15/2016	33.54	24.93	-	-	-	-	8.61	9:43	
	03/14/2016	33.54	24.35	-	-	-	27.39	9.19	12:00	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
MW-123S / RW-123S (cont.)	04/21/2016	33.54	25.93	-	-	-	27.16	7.61	10:52	
	05/23/2016	33.54	26.06	-	-	-	27.32	7.48	11:33	
	05/24/2016	33.54	25.46	-	-	-	27.50	8.08	8:55	
	06/21/2016	33.54	26.05	-	-	-	-	7.49	10:04	
RW-1	10/10/2014	31.19	26.93	-	-	-	-	4.26	-	
	10/13/2014	31.19	27.09	-	-	-	-	4.10	-	
	10/20/2014	31.19	27.27	-	-	-	40.65	3.92	-	
	10/27/2014	31.19	27.35	-	-	-	-	3.84	-	
	11/07/2014	31.19	27.10	-	-	-	-	4.09	-	
	11/12/2014	31.19	27.15	-	-	-	-	4.04	-	
	11/21/2014	31.19	27.83	-	-	-	-	3.36	-	
	11/26/2014	31.19	27.42	-	-	-	-	3.77	-	
	12/05/2014	31.19	27.25	-	-	-	-	3.94	-	
	12/11/2014	31.19	27.09	-	-	-	-	4.10	-	
	12/16/2014	31.19	26.98	-	-	-	-	4.21	-	
	12/23/2014	31.19	26.98	-	-	-	-	4.21	-	
	12/30/2014	31.19	27.38	-	-	-	-	3.81	-	
	01/09/2015	31.19	27.37	-	-	-	-	3.82	-	
	01/16/2015	31.19	27.08	-	-	-	-	4.11	-	
	01/19/2015	31.19	27.07	-	-	-	-	4.12	-	
	01/26/2015	31.19	27.03	-	-	-	-	4.16	-	
	02/03/2015	31.19	27.80	-	-	-	40.75	3.39	-	
	02/09/2015	31.19	27.18	-	-	-	-	4.01	-	
	02/18/2015	31.19	27.22	-	-	-	-	3.97	-	
	02/24/2015	31.19	27.42	-	-	-	40.35	3.77	13:49	
	03/04/2015	31.19	27.27	-	-	-	-	3.92	14:12	
	03/11/2015	31.19	26.90	-	-	-	-	4.29	12:42	
	03/18/2015	31.19	27.04	-	-	-	-	4.15	11:02	
	03/26/2015	31.19	26.87	-	-	-	40.70	4.32	11:35	
	04/02/2015	31.19	27.02	-	-	-	40.60	4.17	11:23	
	04/08/2015	31.19	27.30	-	-	-	40.55	3.89	8:45	
	04/13/2015	31.19	27.18	-	-	-	-	4.01	10:38	
	04/23/2015	31.19	26.67	-	-	-	40.65	4.52	11:52	
	04/29/2015	31.19	26.87	-	-	-	40.70	4.32	14:19	
	05/04/2015	31.19	26.72	-	-	-	-	4.47	11:36	
	05/11/2015	31.19	26.70	-	-	-	40.78	4.49	15:03	
	05/12/2015	31.19	26.92	-	-	-	40.63	4.27	14:15	
	05/21/2015	31.19	26.90	-	-	-	40.70	4.29	12:20	
	05/28/2015	31.19	27.11	-	-	-	40.60	4.08	11:43	
	06/02/2015	31.19	26.79	-	-	-	-	4.40	13:01	
	06/09/2015	31.19	26.57	-	-	-	-	4.62	10:27	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
RW-1 (cont.)	06/16/2015	31.19	26.60	-	-	-	-	4.59	11:21	
	06/26/2015	31.19	26.52	-	-	-	40.50	4.67	10:37	
	07/01/2015	31.19	26.07	-	-	-	-	5.12	12:12	
	08/04/2015	31.19	26.30	-	-	-	40.66	4.89	12:16	
	08/05/2015	31.19	26.67	-	-	-	40.65	4.52	9:08	
	12/01/2015	31.19	26.77	-	-	-	40.67	4.42	13:41	
	03/14/2016	31.19	26.95	-	-	-	40.65	4.24	8:40	
	04/21/2016	31.19	27.82	-	-	-	40.69	3.37	9:47	
	05/23/2016	31.19	27.73	-	-	-	41.31	3.46	10:06	
	05/24/2016	31.19	27.89	-	-	-	40.65	3.30	10:15	
	06/21/2016	31.19	27.22	-	-	-	-	3.97	10:53	
RW-05S	07/08/2015	31.38	22.72	-	-	-	-	8.66	11:25	
	07/13/2015	31.38	22.57	-	-	-	26.03	8.81	9:34	
	07/20/2015	31.38	21.82	-	-	-	-	9.56	9:28	
	07/28/2015	31.38	21.77	-	-	-	26.07	9.61	11:21	
	08/05/2015	31.38	21.87	-	-	-	26.03	9.51	9:27	
	08/11/2015	31.38	21.95	-	-	-	26.06	9.43	10:05	
	08/18/2015	31.38	22.17	-	-	-	-	9.21	10:27	
	08/24/2015	31.38	22.42	-	-	-	-	8.96	10:20	
	09/02/2015	31.38	22.47	-	-	-	26.05	8.91	9:49	
	09/09/2015	31.38	22.60	-	-	-	26.07	8.78	10:25	
	09/17/2015	31.38	22.69	-	-	-	26.07	8.69	10:30	
	09/23/2015	31.38	22.69	-	-	-	-	8.69	10:37	
	09/28/2015	31.38	22.78	-	-	-	26.07	8.60	9:26	
	10/05/2015	31.38	22.71	-	-	-	26.20	8.67	9:15	
	11/10/2015	31.38	25.07	-	-	-	-	6.31	13:05	
	12/01/2015	33.47	25.36	-	-	-	28.15	8.11	11:51	
	01/27/2016	33.47	26.23	-	-	-	-	7.24	10:40	
	02/15/2016	33.47	25.44	-	-	-	-	8.03	10:27	
	03/14/2016	33.47	25.21	-	-	-	28.20	8.26	11:40	
	04/21/2016	33.47	20.05	-	-	-	27.95	13.42	11:13	
	05/23/2016	33.47	25.78	-	-	-	27.97	7.69	11:24	
	05/24/2016	33.47	25.18	-	-	-	28.10	8.29	9:30	
	06/21/2016	33.47	25.83	-	-	-	-	7.64	10:46	
RW-25S	07/08/2015	30.97	DRY	-	-	-	24.64	-	11:43	
	07/13/2015	30.97	DRY	-	-	-	24.65	-	9:39	
	07/20/2015	30.97	DRY	-	-	-	-	-	9:40	
	07/28/2015	30.97	DRY	-	-	-	24.71	-	10:47	
	08/04/2015	30.97	DRY	-	-	-	24.64	-	13:06	
	08/11/2015	30.97	DRY	-	-	-	-	-	11:25	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
RW-25S (cont.)	08/18/2015	30.97	24.62	-	-	-	-	6.35	10:36	
	08/24/2015	30.97	24.56	-	-	-	-	6.41	10:33	
	09/02/2015	30.97	NR	24.51	-	0.01	24.69	-	10:23	
	09/09/2015	30.97	NR	24.50	-	0.01	24.69	-	11:00	
	09/17/2015	30.97	NR	24.54	-	-	24.65	-	10:50	LNAPL not manually bailed
	09/23/2015	30.97	24.62	24.50	0.12	0.01	24.62	6.46	10:56	
	09/28/2015	30.97	NR	24.57	TRACE	TRACE	24.65	-	9:55	
	10/05/2015	30.97	NR	24.54	-	TRACE	24.59	-	11:27	
	11/10/2015	30.97	NR	26.28	-	-	26.38	-	13:36	LNAPL not manually bailed
	12/01/2015	32.70	26.34	26.27	0.07	-	26.36	6.42	11:55	LNAPL not manually bailed
	01/27/2016	32.70	26.30	26.22	0.08	-	-	6.47	11:04	LNAPL not manually bailed
	02/15/2016	32.70	25.59	25.42	0.17	-	-	7.26	10:44	LNAPL not manually bailed
	03/14/2016	32.70	24.45	24.44	0.01	-	-	8.26	13:00	LNAPL not manually bailed
	04/21/2016	32.70	25.51	25.50	0.01	-	-	7.20	11:45	
	05/23/2016	32.70	25.38	-	-	-	26.28	7.32	11:36	
	05/24/2016	32.70	25.43	25.41	0.02	-	-	7.29	-	
	06/21/2016	32.70	25.38					7.32	10:07	
RW-28S	07/08/2015	31.35	26.40	-	-	-	-	4.95	10:42	
	07/13/2015	31.35	25.20	-	-	-	26.66	6.15	9:11	
	07/20/2015	31.35	24.14	-	-	-	-	7.21	8:55	
	07/28/2015	31.35	23.92	-	-	-	26.73	7.43	10:04	
	08/04/2015	31.35	23.97	-	-	-	26.67	7.38	13:21	
	08/05/2015	31.35	24.98	-	-	-	26.66	6.37	8:18	
	08/11/2015	31.35	24.03	-	-	-	26.65	7.32	9:42	
	08/18/2015	31.35	24.13	-	-	-	-	7.22	10:00	
	08/24/2015	31.35	24.18	-	-	-	-	7.17	10:03	
	09/02/2015	31.35	24.31	-	-	-	26.68	7.04	9:10	
	09/09/2015	31.35	24.41	-	-	-	26.65	6.94	9:58	
	09/17/2015	31.35	24.55	-	-	-	26.69	6.80	9:51	
	09/23/2015	31.35	24.58	-	-	-	-	6.77	10:21	
	09/28/2015	31.35	24.65	-	-	-	26.60	6.70	9:40	
	10/05/2015	31.35	24.60	-	-	-	26.68	6.75	8:58	
	11/10/2015	31.35	26.71	-	-	-	-	4.64	12:48	
	12/01/2015	32.98	26.91	-	-	-	28.28	6.07	12:34	
	01/27/2016	32.98	27.09	-	-	-	-	5.89	10:10	
	02/15/2016	32.98	25.86	-	-	-	-	7.12	9:51	
	03/14/2016	32.98	25.74	-	-	-	28.30	7.24	12:15	
	04/21/2016	32.98	26.84	-	-	-	28.30	6.14	10:40	
	05/05/2016	32.98	25.65	-	-	-	28.32	7.33	12:52	
	05/23/2016	32.98	25.82	-	-	-	28.32	7.16	12:15	
	05/24/2016	32.98	25.82	-	-	-	28.32	7.16	12:15	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
RW-28S (cont.)	06/21/2016	32.98	25.65	-	-	-	-	7.33	9:53	
RW-30S	06/26/2015	31.32	DRY	-	-	-	28.40	-	9:28	
	07/01/2015	31.32	24.02	-	-	-	-	7.30	12:03	
	07/08/2015	31.32	25.39	-	-	-	-	5.93	10:51	
	07/13/2015	31.32	26.60	-	-	-	28.40	4.72	9:12	
	07/20/2015	31.32	26.07	-	-	-	-	5.25	9:01	
	07/28/2015	31.32	26.04	-	-	-	28.48	5.28	10:13	
	08/04/2015	31.32	26.07	-	-	-	28.40	5.25	13:25	
	08/05/2015	31.32	26.05	-	-	-	28.42	5.27	8:20	
	08/11/2015	31.32	26.42	-	-	-	28.44	4.90	9:44	
	08/18/2015	31.32	26.31	-	-	-	-	5.01	9:53	
	08/24/2015	31.32	26.28	-	-	-	-	5.04	9:56	
	09/02/2015	31.32	26.37	26.36	0.01	TRACE	28.45	4.96	9:14	
	09/09/2015	31.32	26.38	-	-	-	28.43	4.94	10:08	
	09/17/2015	31.32	26.52	-	-	-	28.46	4.80	10:05	
	09/23/2015	31.32	26.47	-	-	-	-	4.85	10:15	
	09/28/2015	31.32	26.42	-	-	-	28.41	4.90	9:37	
	10/05/2015	31.32	26.20	-	-	-	28.41	5.12	9:05	
	11/10/2015	31.32	28.73	-	-	-	-	2.59	12:46	
	12/01/2015	33.63	28.99	-	-	-	30.54	4.64	12:36	
	01/27/2016	33.63	29.08	-	-	-	-	4.55	10:01	
	02/15/2016	33.63	29.44	-	-	-	-	4.19	9:47	
	03/14/2016	33.63	28.78	-	-	-	30.60	4.85	12:10	
	04/21/2016	33.63	28.95	-	-	-	29.03	4.68	10:44	
	04/27/2016	33.63	29.02	-	-	-	29.12	4.61	10:18	
	05/05/2016	33.63	29.05	-	-	-	29.10	4.58	12:48	
	05/23/2016	33.63	29.02	-	-	-	29.70	4.61	11:14	
	05/25/2016	33.63	DRY	-	-	-	29.05	-	-	not sampled 2Q2016
	06/21/2016	33.63	26.45	-	-	-	-	7.18	9:56	
RW-116S	07/08/2015	31.80	22.48	-	-	-	-	9.32	11:28	
	07/13/2015	31.80	22.03	-	-	-	26.20	9.77	9:24	
	07/20/2015	31.80	21.77	-	-	-	-	10.03	9:10	
	07/28/2015	31.44	21.46	-	-	-	25.90	9.98	10:31	
	08/04/2015	31.44	21.55	-	-	-	25.82	9.89	13:11	
	08/05/2015	31.44	21.57	-	-	-	25.82	9.87	9:05	
	08/11/2015	31.44	21.72	-	-	-	24.88	9.72	10:31	
	08/18/2015	31.44	21.79	-	-	-	-	9.65	10:13	
	08/24/2015	31.44	21.90	-	-	-	-	9.54	10:16	
	09/02/2015	31.44	22.06	-	-	-	25.86	9.38	10:05	
	09/09/2015	31.44	22.18	-	-	-	25.89	9.26	10:12	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
RW-116S (cont.)	09/17/2015	31.44	22.31	-	-	-	25.89	9.13	10:14	
	09/23/2015	31.44	22.35	-	-	-	-	9.09	10:34	
	09/28/2015	31.44	22.42	-	-	-	25.84	9.02	9:20	
	10/05/2015	31.44	22.47	-	-	-	25.84	8.97	9:31	
	11/10/2015	31.44	25.05	-	-	-	-	6.39	13:03	
	12/01/2015	33.78	25.73	-	-	-	28.20	8.05	11:20	
	01/27/2016	33.78	26.53	-	-	-	-	7.25	10:29	
	02/15/2016	33.78	26.53	-	-	-	-	7.25	10:10	
	03/14/2016	33.78	26.26	-	-	-	28.18	7.52	11:35	
	04/21/2016	33.78	26.33	-	-	-	28.25	7.45	11:18	
	05/23/2016	33.78	26.03	-	-	-	28.25	7.75	11:20	
	05/24/2016	33.78	26.32	-	-	-	28.90	7.46	9:45	
	06/21/2016	33.78	26.06	-	-	-	-	7.72	10:43	
RW-117S	07/08/2015	31.81	22.53	-	-	-	-	9.28	11:08	
	07/13/2015	31.81	22.27	-	-	-	24.25	9.54	9:22	
	07/20/2015	31.81	21.97	-	-	-	-	9.84	9:07	
	07/28/2015	31.81	21.86	-	-	-	24.34	9.95	9:30	
	08/04/2015	31.81	21.94	-	-	-	24.23	9.87	13:15	
	08/05/2015	31.81	21.96	-	-	-	24.27	9.85	9:20	
	08/11/2015	31.81	22.06	-	-	-	24.30	9.75	10:28	
	08/18/2015	31.81	22.16	-	-	-	-	9.65	10:10	
	08/24/2015	31.81	22.25	-	-	-	-	9.56	10:13	
	09/02/2015	31.81	22.40	-	-	-	24.30	9.41	10:10	
	09/09/2015	31.81	22.51	TRACE	TRACE	TRACE	24.31	9.30	10:10	
	09/17/2015	31.81	22.61	-	-	-	24.31	9.20	10:12	
	09/23/2015	31.81	22.61	-	-	-	-	9.20	10:31	
	09/28/2015	31.81	22.66	-	-	-	24.29	9.15	9:18	
	10/05/2015	31.81	22.76	-	-	-	24.30	9.05	9:34	
	11/10/2015	31.81	25.29	-	-	-	-	6.52	12:59	
	12/01/2015	33.73	25.72	-	-	-	26.13	8.01	11:16	
	01/27/2016	33.73	26.06	-	-	-	-	7.67	10:25	
	02/15/2016	33.73	26.05	-	-	-	-	7.68	10:07	
	03/14/2016	33.73	26.06	-	-	-	26.09	7.67	11:05	
	04/21/2016	33.73	25.74	-	-	-	26.07	7.99	11:38	
	04/27/2016	33.73	25.75	-	-	-	26.08	7.98	10:14	
	05/05/2016	33.73	25.79	-	-	-	26.05	7.94	12:56	
	05/23/2016	33.73	25.70	-	-	-	26.05	8.03	11:16	
	05/24/2016	33.73	DRY	-	-	-	26.07	-	-	
	06/21/2016	33.73	25.70	-	-	-	-	8.03	10:33	
RW-118S	07/08/2015	31.09	21.79	-	-	-	-	9.30	11:03	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
RW-118S (cont.)	07/13/2015	31.09	21.64	-	-	-	24.90	9.45	9:20	
	07/20/2015	31.09	21.27	-	-	-	-	9.82	9:04	
	07/28/2015	31.09	21.22	-	-	-	25.00	9.87	9:39	
	08/04/2015	31.09	21.28	-	-	-	24.93	9.81	13:18	
	08/11/2015	31.09	21.44	-	-	-	24.96	9.65	10:33	
	08/18/2015	31.09	21.52	-	-	-	-	9.57	10:07	
	08/24/2015	31.09	21.62	-	-	-	-	9.47	10:10	
	09/02/2015	31.09	21.76	-	-	-	24.97	9.33	10:13	
	09/09/2015	31.09	21.56	-	-	-	24.95	9.53	10:07	
	09/17/2015	31.09	21.96	-	-	-	25.01	9.13	10:10	
	09/23/2015	31.09	21.97	-	-	-	-	9.12	10:28	
	09/28/2015	31.09	22.03	-	-	-	24.95	9.06	9:16	
	10/05/2015	31.09	22.68	-	-	-	25.00	8.41	12:20	
	11/10/2015	31.09	22.35	-	-	-	-	8.74	12:55	
	12/01/2015	31.24	22.84	-	-	-	25.08	8.40	13:09	
	01/27/2016	31.24	24.02	-	-	-	-	7.22	10:19	
	02/15/2016	31.24	22.23	-	-	-	-	9.01	9:50	
	03/14/2016	31.24	22.26	-	-	-	25.15	8.98	9:05	
	04/21/2016	31.24	23.85	-	-	-	25.10	7.39	12:06	
	05/23/2016	31.24	23.95	-	-	-	25.15	7.29	11:50	
	05/24/2016	31.24	23.88	-	-	-	25.10	7.36	11:35	
	06/21/2016	31.24	23.95	-	-	-	-	7.29	10:30	
RW-119S	07/08/2015	30.38	21.80	-	-	-	-	8.58	11:46	
	07/13/2015	30.38	21.83	-	-	-	26.15	8.55	9:32	
	07/20/2015	30.38	21.53	-	-	-	-	8.85	9:34	
	07/28/2015	30.38	21.51	-	-	-	26.25	8.87	9:48	
	08/04/2015	30.38	21.50	-	-	-	26.15	8.88	10:37	
	08/11/2015	30.38	21.53	-	-	-	26.15	8.85	9:53	
	08/18/2015	30.38	21.73	-	-	-	-	8.65	10:33	
	08/24/2015	30.38	21.82	-	-	-	-	8.56	10:40	
	09/02/2015	30.38	22.01	-	-	-	26.17	8.37	9:38	
	09/09/2015	30.38	22.09	-	-	-	26.20	8.29	10:17	
	09/17/2015	30.38	22.34	-	-	-	26.21	8.04	10:22	
	09/23/2015	30.38	22.35	-	-	-	-	8.03	10:49	
	09/28/2015	30.38	22.32	-	-	-	26.20	8.06	9:33	
	10/05/2015	30.38	22.45	-	-	-	26.20	7.93	12:04	
	11/10/2015	30.38	25.50	-	-	-	-	4.88	13:09	
	12/01/2015	33.33	25.65	-	-	-	29.02	7.68	13:03	
	01/27/2016	33.33	25.63	-	-	-	-	7.70	9:50	
	02/15/2016	33.33	26.89	-	-	-	-	6.44	9:36	
	03/14/2016	33.33	25.85	-	-	-	29.20	7.48	9:28	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
RW-119S (cont.)	04/21/2016	33.33	25.40	-	-	-	29.17	7.93	11:03	
	05/23/2016	33.33	26.20	-	-	-	29.18	7.13	11:30	
	05/24/2016	33.33	25.05	-	-	-	29.50	8.28	9:10	
	06/21/2016	33.33	26.28	-	-	-	-	7.05	11:13	
SP-1	02/24/2015	30.87	27.08	-	-	-	-	3.79	13:59	
SP-2	10/01/2014	NR	27.23	-	-	-	35.45	-	-	
	10/10/2014	NR	27.10	-	-	-	-	-	-	
TW-02	12/18/2013	20.60	15.52	-	-	-	-	5.08	-	
	01/08/2014	20.60	15.08	-	-	-	-	5.52	-	
	03/07/2014	20.60	14.81	-	-	-	-	5.79	-	
	03/13/2014	20.60	14.22	-	-	-	-	6.38	-	
	03/20/2014	20.60	13.39	-	-	-	-	7.21	-	
	03/27/2014	20.60	14.31	-	-	-	-	6.29	-	
	04/03/2014	20.60	13.25	-	-	-	-	7.35	-	
	04/08/2014	20.60	13.74	-	-	-	-	6.86	-	
	04/17/2014	20.60	13.70	-	-	-	-	6.90	-	
	04/22/2014	20.60	13.62	-	-	-	-	6.98	-	
	04/29/2014	20.60	13.96	-	-	-	-	6.64	-	
	05/05/2014	20.60	13.55	-	-	-	-	7.05	-	
	05/12/2014	20.60	14.25	-	-	-	-	6.35	-	
	05/19/2014	20.60	13.63	-	-	-	-	6.97	-	
	05/27/2014	20.60	14.31	-	-	-	-	6.29	-	
	06/02/2014	20.60	14.34	-	-	-	-	6.26	-	
	06/09/2014	20.60	14.71	-	-	-	-	5.89	-	
	06/16/2014	20.60	14.30	-	-	-	-	6.30	-	
	06/23/2014	20.60	14.48	-	-	-	-	6.12	-	
	07/02/2014	20.60	14.77	-	-	-	-	5.83	-	
	07/07/2014	20.60	15.08	-	-	-	21.28	5.52	-	
	07/14/2014	20.60	15.02	-	-	-	-	5.58	-	
	07/31/2014	20.60	15.40	-	-	-	21.22	5.20	-	
	08/08/2014	20.60	15.40	-	-	-	-	5.20	-	
	08/11/2014	20.60	15.28	-	-	-	-	5.32	-	
	08/15/2014	20.60	14.84	-	-	-	21.15	5.76	-	
	08/18/2014	20.60	15.06	-	-	-	-	5.54	-	
	08/25/2014	NR	14.71	-	-	-	-	-	-	
	09/02/2014	NR	15.18	-	-	-	-	-	-	
	09/15/2014	NR	14.90	-	-	-	-	-	-	
	09/22/2014	NR	15.00	-	-	-	-	-	-	
	10/01/2014	NR	15.22	-	-	-	21.12	-	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-02 (cont.)	10/13/2014	NR	14.92	-	-	-	-	-	-	
	10/20/2014	NR	15.10	-	-	-	20.99	-	-	
	02/24/2015	16.11	14.34	-	-	-	-	1.77	15:01	
	05/11/2015	16.11	14.38	-	-	-	20.80	1.73	15:18	
	08/04/2015	16.11	15.08	-	-	-	20.87	1.03	12:15	
	12/01/2015	16.11	15.08	-	-	-	20.88	1.03	13:28	
	03/14/2016	16.11	14.32	-	-	-	20.97	1.79	9:40	
	05/23/2016	16.11	13.26	-	-	-	-	2.85	10:37	
TW-03	12/18/2013	14.87	9.08	-	-	-	-	5.79	-	
	01/08/2014	14.87	9.42	-	-	-	-	5.45	-	
	03/07/2014	14.87	7.66	-	-	-	-	7.21	-	
	03/13/2014	14.87	8.09	-	-	-	-	6.78	-	
	03/20/2014	14.87	7.50	-	-	-	-	7.37	-	
	03/27/2014	14.87	8.47	-	-	-	-	6.40	-	
	04/03/2014	14.87	6.99	-	-	-	-	7.88	-	
	04/08/2014	14.87	7.64	-	-	-	-	7.23	-	
	04/17/2014	14.87	7.33	-	-	-	-	7.54	-	
	04/22/2014	14.87	7.64	-	-	-	-	7.23	-	
	04/29/2014	14.87	7.36	-	-	-	-	7.51	-	
	05/05/2014	14.87	7.58	-	-	-	-	7.29	-	
	05/12/2014	14.87	7.93	-	-	-	-	6.94	-	
	05/19/2014	14.87	8.42	-	-	-	-	6.45	-	
	05/27/2014	14.87	7.69	-	-	-	-	7.18	-	
	06/02/2014	14.87	8.00	-	-	-	-	6.87	-	
	06/09/2014	14.87	7.77	-	-	-	-	7.10	-	
	06/16/2014	14.87	7.60	-	-	-	-	7.27	-	
	06/23/2014	14.87	7.68	-	-	-	-	7.19	-	
	07/02/2014	14.87	7.97	-	-	-	-	6.90	-	
	07/07/2014	14.87	8.31	-	-	-	13.45	6.56	-	
	07/14/2014	14.87	7.55	-	-	-	-	7.32	-	
	07/25/2014	14.87	8.45	-	-	-	13.30	6.42	-	
	07/31/2014	14.87	8.14	-	-	-	13.35	6.73	-	
	08/08/2014	14.87	8.39	-	-	-	-	6.48	-	
	08/11/2014	14.87	8.12	-	-	-	-	6.75	-	
	08/15/2014	14.87	8.10	-	-	-	13.40	6.77	-	
	08/18/2014	14.87	8.25	-	-	-	-	6.62	-	
	08/25/2014	10.40	7.85	-	-	-	-	2.55	-	
	09/02/2014	10.40	8.52	-	-	-	-	1.88	-	
	09/15/2014	10.40	8.33	-	-	-	-	2.07	-	
	09/22/2014	10.40	8.26	-	-	-	-	2.14	-	
	10/01/2014	10.40	8.35	-	-	-	13.15	2.05	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-03 (cont.)	10/13/2014	10.40	8.18	-	-	-	-	2.22	-	
	10/20/2014	10.40	8.50	-	-	-	13.14	1.90	-	
	02/24/2015	10.40	8.57	-	-	-	-	1.83	14:49	
	05/11/2015	10.40	7.74	-	-	-	13.10	2.66	15:23	
	08/04/2015	10.40	7.82	-	-	-	13.14	2.58	12:13	
	12/01/2015	10.40	7.64	-	-	-	13.12	2.76	13:26	
	03/14/2016	10.40	7.95	-	-	-	13.10	2.45	9:45	
	05/05/2016	10.40	7.53	-	-	-	-	2.87	12:21	
	05/23/2016	10.40	8.68	-	-	-	-	1.72	-	Geosyntec sampling, could not measure
TW-04	12/18/2013	13.26	6.25	-	-	-	-	7.01	-	
	01/08/2014	13.26	6.71	-	-	-	-	6.55	-	
	03/07/2014	13.26	6.06	-	-	-	-	7.20	-	
	03/13/2014	13.26	6.26	-	-	-	-	7.00	-	
	03/20/2014	13.26	6.17	-	-	-	-	7.09	-	
	03/27/2014	13.26	6.55	-	-	-	-	6.71	-	
	04/03/2014	13.26	4.64	-	-	-	-	8.62	-	
	04/08/2014	13.26	5.38	-	-	-	-	7.88	-	
	04/17/2014	13.26	5.60	-	-	-	-	7.66	-	
	04/22/2014	13.26	5.56	-	-	-	-	7.70	-	
	04/29/2014	13.26	5.91	-	-	-	-	7.35	-	
	05/05/2014	13.26	5.06	-	-	-	-	8.20	-	
	05/12/2014	13.26	5.82	-	-	-	-	7.44	-	
	05/19/2014	13.26	4.61	-	-	-	-	8.65	-	
	05/27/2014	13.26	5.66	-	-	-	-	7.60	-	
	06/02/2014	13.26	5.83	-	-	-	-	7.43	-	
	06/09/2014	13.26	5.87	-	-	-	-	7.39	-	
	06/16/2014	13.26	5.21	-	-	-	-	8.05	-	
	06/23/2014	13.26	5.68	-	-	-	-	7.58	-	
	07/02/2014	13.26	5.96	-	-	-	-	7.30	-	
	07/07/2014	13.26	6.18	-	-	-	13.77	7.08	-	
	07/14/2014	13.26	5.80	-	-	-	-	7.46	-	
	07/25/2014	13.26	6.20	-	-	-	13.70	7.06	-	
	07/31/2014	13.26	6.08	-	-	-	13.76	7.18	-	
	08/08/2014	13.26	6.21	-	-	-	-	7.05	-	
	08/11/2014	13.26	6.19	-	-	-	-	7.07	-	
	08/15/2014	13.26	5.99	-	-	-	13.75	7.27	-	
	08/18/2014	13.26	5.92	-	-	-	-	7.34	-	
	08/25/2014	9.49	5.87	-	-	-	-	3.62	-	
	09/02/2014	9.49	6.25	-	-	-	-	3.24	-	
	09/15/2014	9.49	6.17	-	-	-	-	3.32	-	
	09/22/2014	9.49	6.20	-	-	-	-	3.29	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-04 (cont.)	10/01/2014	9.49	6.23	-	-	-	13.55	3.26	-	
	10/10/2014	9.49	6.18	-	-	-	-	3.31	-	
	10/13/2014	9.49	6.19	-	-	-	-	3.30	-	
	10/20/2014	9.49	6.28	-	-	-	13.40	3.21	-	
	10/27/2014	9.49	6.04	-	-	-	-	3.45	-	
	11/07/2014	9.49	6.27	-	-	-	-	3.22	-	
	11/12/2014	9.49	6.19	-	-	-	-	3.30	-	
	11/21/2014	9.49	6.78	-	-	-	-	2.71	-	
	11/26/2014	9.49	6.33	-	-	-	-	3.16	-	
	12/05/2014	9.49	5.75	-	-	-	-	3.74	-	
	12/11/2014	9.49	5.60	-	-	-	-	3.89	-	
	12/16/2014	9.49	5.83	-	-	-	-	3.66	-	
	12/23/2014	9.49	5.82	-	-	-	-	3.67	-	
	12/30/2014	9.49	5.73	-	-	-	-	3.76	-	
	01/09/2015	9.49	6.06	-	-	-	-	3.43	-	
	01/16/2015	9.49	5.64	-	-	-	-	3.85	-	
	01/19/2015	9.49	5.37	-	-	-	-	4.12	-	
	01/26/2015	9.49	4.78	-	-	-	-	4.71	-	
	02/03/2015	9.49	6.06	-	-	-	13.21	3.43	-	
	02/09/2015	9.49	6.08	-	-	-	-	3.41	-	
	02/18/2015	9.49	6.19	-	-	-	-	3.30	-	
	02/24/2015	9.49	6.21	-	-	-	-	3.28	15:00	
	03/04/2015	9.49	6.11	-	-	-	-	3.38	11:45	
	03/11/2015	9.49	3.93	-	-	-	-	5.56	12:00	
	03/18/2015	9.49	5.40	-	-	-	-	4.09	10:23	
	03/26/2015	9.49	5.75	-	-	-	13.20	3.74	12:21	
	04/02/2015	9.49	5.85	-	-	-	13.25	3.64	10:28	
	04/08/2015	9.49	6.20	-	-	-	13.25	3.29	10:00	
	04/13/2015	9.49	6.28	-	-	-	-	3.21	9:55	
	04/23/2015	9.49	5.44	-	-	-	13.25	4.05	10:43	
	04/29/2015	9.49	5.85	-	-	-	13.25	3.64	13:15	
	05/04/2015	9.49	5.75	-	-	-		3.74	10:50	
	05/11/2015	9.49	5.83	-	-	-	13.20	3.66	15:33	
	05/21/2015	9.49	5.89	-	-	-	13.27	3.60	13:05	
	05/28/2015	9.49	6.28	-	-	-	13.25	3.21	10:55	
	06/02/2015	9.49	5.01	-	-	-	-	4.48	12:15	
	06/09/2015	9.49	5.17	-	-	-	-	4.32	9:45	
	06/16/2015	9.49	5.67	-	-	-	-	3.82	10:35	
	06/26/2015	9.49	4.98	-	-	-	13.20	4.51	8:45	
	07/01/2015	9.49	3.57	-	-	-	-	5.92	11:35	
	07/08/2015	9.49	4.57	-	-	-	-	4.92	10:20	
	07/13/2015	9.49	4.28	-	-	-	-	5.21	8:53	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-04	07/20/2015	9.49	5.32	-	-	-	-	4.17	8:40	
	08/04/2015	9.49	5.62	-	-	-	13.70	3.87	12:02	
	08/18/2015	9.49	5.88	-	-	-	-	3.61	9:20	
	08/24/2015	9.49	5.76	-	-	-	-	3.73	9:40	
	09/02/2015	9.49	5.92	-	-	-	13.20	3.57	11:36	
	09/09/2015	9.49	6.06	-	-	-	13.18	3.43	14:09	
	09/17/2015	9.49	6.11	-	-	-	13.21	3.38	11:48	
	09/23/2015	9.49	6.08	-	-	-	-	3.41	10:00	
	09/28/2015	9.49	5.61	-	-	-	13.08	3.88	10:36	
	10/05/2015	9.49	5.22	-	-	-	13.13	4.27	10:20	
	11/10/2015	9.49	5.92	-	-	-	-	3.57	12:29	
	12/01/2015	9.49	5.78	-	-	-	13.10	3.71	13:20	
	02/15/2016	9.49	6.07	-	-	-	-	3.42	9:05	
	03/14/2016	9.49	5.93	-	-	-	13.11	3.56	9:55	
	04/21/2016	9.49	6.23	-	-	-	-	3.26	9:17	
	05/05/2016	9.49	5.50	-	-	-	-	3.99	12:27	
	05/23/2016	9.49	4.83	-	-	-	-	4.66	10:49	
	06/21/2016	9.49	6.30	-	-	-	-	3.19	9:35	
TW-05	12/18/2013	13.73	6.45	-	-	-	-	7.28	-	
	01/08/2014	13.73	6.98	-	-	-	-	6.75	-	
	03/07/2014	13.73	6.34	-	-	-	-	7.39	-	
	03/13/2014	13.73	6.49	-	-	-	-	7.24	-	
	03/20/2014	13.73	6.04	-	-	-	-	7.69	-	
	03/27/2014	13.73	6.68	-	-	-	-	7.05	-	
	04/03/2014	13.73	4.29	-	-	-	-	9.44	-	
	04/08/2014	13.73	5.36	-	-	-	-	8.37	-	
	04/17/2014	13.73	5.33	-	-	-	-	8.40	-	
	04/22/2014	13.73	5.65	-	-	-	-	8.08	-	
	04/29/2014	13.73	6.06	-	-	-	-	7.67	-	
	05/05/2014	13.73	4.91	-	-	-	-	8.82	-	
	05/12/2014	13.73	6.01	-	-	-	-	7.72	-	
	05/19/2014	13.73	4.65	-	-	-	-	9.08	-	
	05/27/2014	13.73	5.91	-	-	-	-	7.82	-	
	06/02/2014	13.73	6.07	-	-	-	-	7.66	-	
	06/09/2014	13.73	6.11	-	-	-	-	7.62	-	
	06/16/2014	13.73	5.28	-	-	-	-	8.45	-	
	06/23/2014	13.73	5.95	-	-	-	-	7.78	-	
	07/02/2014	13.73	6.28	-	-	-	-	7.45	-	
	07/07/2014	13.73	6.49	-	-	-	12.06	7.24	-	
	07/14/2014	13.73	6.06	-	-	-	-	7.67	-	
	07/25/2014	13.73	5.43	-	-	-	12.08	8.30	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-05 (cont.)	07/31/2014	13.73	6.50	-	-	-	12.10	7.23	-	
	08/08/2014	13.73	6.56	-	-	-	-	7.17	-	
	08/11/2014	13.73	6.51	-	-	-	-	7.22	-	
	08/15/2014	13.73	5.91	-	-	-	11.95	7.82	-	
	08/18/2014	13.73	6.14	-	-	-	-	7.59	-	
	08/25/2014	9.64	6.13	-	-	-	-	3.51	-	
	09/02/2014	9.64	6.59	-	-	-	-	3.05	-	
	09/15/2014	9.64	6.57	-	-	-	-	3.07	-	
	09/22/2014	9.64	6.58	-	-	-	-	3.06	-	
	10/01/2014	9.64	6.63	-	-	-	11.74	3.01	-	
	10/10/2014	9.64	6.52	-	-	-	-	3.12	-	
	10/13/2014	9.64	6.58	-	-	-	-	3.06	-	
	10/20/2014	9.64	6.60	-	-	-	12.63	3.04	-	
	10/27/2014	9.64	6.23	-	-	-	-	3.41	-	
	11/07/2014	9.64	6.58	-	-	-	-	3.06	-	
	11/12/2014	9.64	6.56	-	-	-	-	3.08	-	
	11/21/2014	9.64	7.07	-	-	-	-	2.57	-	
	11/26/2014	9.64	6.67	-	-	-	-	2.97	-	
	12/05/2014	9.64	5.57	-	-	-	-	4.07	-	
	12/11/2014	9.64	5.38	-	-	-	-	4.26	-	
	12/16/2014	9.64	5.86	-	-	-	-	3.78	-	
	12/23/2014	9.64	6.08	-	-	-	-	3.56	-	
	12/30/2014	9.64	5.50	-	-	-	-	4.14	-	
	01/09/2015	9.64	6.27	-	-	-	-	3.37	-	
	01/16/2015	9.64	5.48	-	-	-	-	4.16	-	
	01/19/2015	9.64	5.08	-	-	-	-	4.56	-	
	01/26/2015	9.64	4.30	-	-	-	-	5.34	-	
	02/03/2015	9.64	6.20	-	-	-	11.88	3.44	-	
	02/09/2015	9.64	6.38	-	-	-	-	3.26	-	
	02/18/2015	9.64	6.64	-	-	-	-	3.00	-	
	02/24/2015	9.64	6.61	-	-	-	-	3.03	14:57	
	03/04/2015	9.64	6.27	-	-	-	-	3.37	12:15	
	03/11/2015	9.64	3.15	-	-	-	-	6.49	12:03	
	03/18/2015	9.64	4.61	-	-	-	-	5.03	10:26	
	03/26/2015	9.64	5.94	-	-	-	12.10	3.70	12:25	
	04/02/2015	9.64	6.00	-	-	-	12.10	3.64	10:30	
	04/08/2015	9.64	6.41	-	-	-	12.14	3.23	10:05	
	04/13/2015	9.64	6.53	-	-	-	-	3.11	9:58	
	04/23/2015	9.64	5.48	-	-	-	12.20	4.16	10:45	
	04/29/2015	9.64	5.99	-	-	-	12.20	3.65	13:17	
	05/04/2015	9.64	5.94	-	-	-	-	3.70	10:53	
	05/11/2015	9.64	6.12	-	-	-	12.30	3.52	15:39	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-05 (cont.)	05/21/2015	9.64	6.15	-	-	-	12.48	3.49	13:07	
	05/28/2015	9.64	6.56	-	-	-	12.50	3.08	10:57	
	06/02/2015	9.64	4.05	-	-	-	-	5.59	12:18	
	06/09/2015	9.64	4.63	-	-	-	-	5.01	9:48	
	06/16/2015	9.64	5.99	-	-	-	-	3.65	10:38	
	06/26/2015	9.64	4.52	-	-	-	12.80	5.12	8:47	
	07/01/2015	9.64	1.82	-	-	-	-	7.82	11:38	
	07/08/2015	9.64	4.22	-	-	-	-	5.42	10:23	
	07/13/2015	9.64	4.24	-	-	-	-	5.40	8:55	
	07/20/2015	9.64	5.64	-	-	-	-	4.00	8:43	
	07/28/2015	9.64	6.01	-	-	-	12.42	3.63	13:15	
	08/04/2015	9.64	6.07	-	-	-	12.32	3.57	12:05	
	08/11/2015	9.64	5.56	-	-	-	12.54	4.08	12:30	
	08/18/2015	9.64	6.28	-	-	-	-	3.36	9:23	
	08/24/2015	9.64	6.23	-	-	-	-	3.41	9:43	
	09/02/2015	9.64	6.32	-	-	-	12.53	3.32	11:33	
	09/09/2015	9.64	6.73	-	-	-	12.55	2.91	14:06	
	09/17/2015	9.64	6.54	-	-	-	12.53	3.10	11:45	
	09/23/2015	9.64	6.41	-	-	-	-	3.23	10:03	
	09/28/2015	9.64	6.01	-	-	-	12.51	3.63	10:38	
	10/05/2015	9.64	5.43	-	-	-	12.54	4.21	10:17	
	11/10/2015	9.64	6.31	-	-	-	-	3.33	12:31	
	12/01/2015	9.64	5.99	-	-	-	12.38	3.65	13:10	
	02/15/2016	9.64	6.34	-	-	-	-	3.30	9:09	
	03/14/2016	9.64	6.22	-	-	-	12.43	3.42	10:00	
	04/21/2016	9.64	6.92	-	-	-	-	2.72	9:21	
	05/05/2016	9.64	5.40	-	-	-	-	4.24	12:30	
	05/23/2016	9.64	5.46	-	-	-	-	4.18	10:55	
	06/21/2016	9.64	7.02	-	-	-	-	2.62	9:38	
TW-06	12/18/2013	13.97	6.21	-	-	-	-	7.76	-	
	01/08/2014	13.97	6.98	-	-	-	-	6.99	-	
	03/07/2014	13.97	6.40	-	-	-	-	7.57	-	
	03/13/2014	13.97	6.62	-	-	-	-	7.35	-	
	03/20/2014	13.97	6.26	-	-	-	-	7.71	-	
	03/27/2014	13.97	6.88	-	-	-	-	7.09	-	
	04/03/2014	13.97	4.81	-	-	-	-	9.16	-	
	04/08/2014	13.97	5.82	-	-	-	-	8.15	-	
	04/17/2014	13.97	5.41	-	-	-	-	8.56	-	
	04/22/2014	13.97	5.90	-	-	-	-	8.07	-	
	04/29/2014	13.97	6.30	-	-	-	-	7.67	-	
	05/05/2014	13.97	4.98	-	-	-	-	8.99	-	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-06 (cont.)	05/12/2014	13.97	6.18	-	-	-	-	7.79	-	
	05/19/2014	13.97	4.63	-	-	-	-	9.34	-	
	05/27/2014	13.97	6.79	-	-	-	-	7.18	-	
	06/02/2014	13.97	6.24	-	-	-	-	7.73	-	
	06/09/2014	13.97	6.31	-	-	-	-	7.66	-	
	06/16/2014	13.97	5.33	-	-	-	-	8.64	-	
	06/23/2014	13.97	6.12	-	-	-	-	7.85	-	
	07/02/2014	13.97	6.52	-	-	-	-	7.45	-	
	07/07/2014	13.97	6.70	-	-	-	12.60	7.27	-	
	07/14/2014	13.97	6.24	-	-	-	-	7.73	-	
	07/25/2014	13.97	6.65	-	-	-	12.60	7.32	-	
	08/08/2014	13.97	6.81	-	-	-	-	7.16	-	
	08/11/2014	13.97	6.71	-	-	-	-	7.26	-	
	08/15/2014	13.97	6.01	-	-	-	12.70	7.96	-	
	08/18/2014	13.97	6.33	-	-	-	-	7.64	-	
	08/25/2014	9.86	6.37	-	-	-	-	3.49	-	
	09/02/2014	9.86	6.80	-	-	-	-	3.06	-	
	09/15/2014	9.86	6.79	-	-	-	-	3.07	-	
	09/22/2014	9.86	6.77	-	-	-	-	3.09	-	
	10/01/2014	9.86	6.88	-	-	-	12.60	2.98	-	
	10/10/2014	9.86	6.77	-	-	-	-	3.09	-	
	10/13/2014	9.86	6.85	-	-	-	-	3.01	-	
	10/20/2014	9.86	6.76	-	-	-	12.63	3.10	-	
	10/27/2014	9.86	6.39	-	-	-	-	3.47	-	
	11/07/2014	9.86	6.83	-	-	-	-	3.03	-	
	11/12/2014	9.86	6.85	-	-	-	-	3.01	-	
	11/21/2014	9.86	7.28	-	-	-	-	2.58	-	
	11/26/2014	9.86	7.02	-	-	-	-	2.84	-	
	12/05/2014	9.86	5.85	-	-	-	-	4.01	-	
	12/11/2014	9.86	5.75	-	-	-	-	4.11	-	
	12/16/2014	9.86	6.18	-	-	-	-	3.68	-	
	12/23/2014	9.86	6.36	-	-	-	-	3.50	-	
	12/30/2014	9.86	5.85	-	-	-	-	4.01	-	
	01/09/2015	9.86	6.52	-	-	-	-	3.34	-	
	01/16/2015	9.86	5.77	-	-	-	-	4.09	-	
	01/19/2015	9.86	5.46	-	-	-	-	4.40	-	
	01/26/2015	9.86	4.69	-	-	-	-	5.17	-	
	02/03/2015	9.86	6.39	-	-	-	12.58	3.47	-	
	02/09/2015	9.86	6.62	-	-	-	-	3.24	-	
	02/18/2015	9.86	6.89	-	-	-	-	2.97	-	
	02/24/2015	9.86	6.90	-	-	-	-	2.96	14:54	
	03/04/2015	9.86	6.43	-	-	-	-	3.43	13:00	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-06 (cont.)	03/11/2015	9.86	4.47	-	-	-	-	5.39	12:06	
	03/18/2015	9.86	5.33	-	-	-	-	4.53	10:29	
	03/26/2015	9.86	6.13	-	-	-	12.60	3.73	12:27	
	04/02/2015	9.86	6.20	-	-	-	12.65	3.66	10:32	
	04/08/2015	9.86	6.66	-	-	-	12.62	3.20	10:15	
	04/13/2015	9.86	6.76	-	-	-	-	3.10	10:01	
	04/23/2015	9.86	5.62	-	-	-	12.60	4.24	10:47	
	04/29/2015	9.86	6.22	-	-	-	12.65	3.64	13:19	
	05/04/2015	9.86	6.14	-	-	-	-	3.72	10:56	
	05/11/2015	9.86	6.38	-	-	-	12.70	3.48	15:40	
	05/21/2015	9.86	6.24	-	-	-	12.65	3.62	13:09	
	05/28/2015	9.86	6.79	-	-	-	12.60	3.07	10:59	
	06/02/2015	9.86	4.41	-	-	-	-	5.45	12:21	
	06/09/2015	9.86	5.28	-	-	-	-	4.58	9:51	
	06/16/2015	9.86	6.24	-	-	-	-	3.62	10:41	
	06/26/2015	9.86	5.08	-	-	-	12.70	4.78	8:49	
	07/01/2015	9.86	3.55	-	-	-	-	6.31	11:41	
	07/08/2015	9.86	4.88	-	-	-	-	4.98	10:26	
	07/13/2015	9.86	4.78	-	-	-	-	5.08	8:55	
	07/20/2015	9.86	5.93	-	-	-	-	3.93	8:46	
	07/28/2015	9.86	6.31	-	-	-	12.61	3.55	12:55	
	08/04/2015	9.86	6.34	-	-	-	12.64	3.52	12:07	
	08/11/2015	9.86	6.15	-	-	-	12.64	3.71	12:35	
	08/18/2015	9.86	6.58	-	-	-	-	3.28	9:26	
	08/24/2015	9.86	6.51	-	-	-	-	3.35	9:46	
	09/02/2015	9.86	6.65	-	-	-	12.06	3.21	11:30	
	09/09/2015	9.86	6.02	-	-	-	12.66	3.84	14:03	
	09/17/2015	9.86	6.85	-	-	-	12.69	3.01	11:40	
	09/23/2015	9.86	6.69	-	-	-	-	3.17	10:06	
	09/28/2015	9.86	6.27	-	-	-	12.61	3.59	10:41	
	10/05/2015	9.86	5.70	-	-	-	12.63	4.16	10:13	
	11/10/2015	9.86	6.65	-	-	-	-	3.21	12:32	
	12/01/2015	9.86	6.55	-	-	-	12.62	3.31	13:22	
	02/15/2016	9.86	6.60	-	-	-	-	3.26	9:15	
	03/14/2016	9.86	6.57	-	-	-	12.63	3.29	10:05	
	04/21/2016	9.99	6.70	-	-	-	12.40	3.29	9:28	Sheen; Elevation change due to well being disturbed during construction activities
	05/05/2016	9.99	5.52	-	-	-	-	4.47	12:35	
	05/23/2016	9.99	4.77	-	-	-	-	5.22	11:00	
	06/21/2016	9.99	6.93	-	-	-	-	3.06	11:17	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-07	12/18/2013	14.00	7.56	-	-	-	-	6.44	-	
	01/08/2014	14.00	7.91	-	-	-	-	6.09	-	
	03/07/2014	14.00	6.91	-	-	-	-	7.09	-	
	03/13/2014	14.00	7.40	-	-	-	-	6.60	-	
	03/20/2014	14.00	6.78	-	-	-	-	7.22	-	
	03/27/2014	14.00	7.56	-	-	-	-	6.44	-	
	04/03/2014	14.00	5.67	-	-	-	-	8.33	-	
	04/08/2014	14.00	6.77	-	-	-	-	7.23	-	
	04/17/2014	14.00	5.51	-	-	-	-	8.49	-	
	04/22/2014	14.00	6.75	-	-	-	-	7.25	-	
	04/29/2014	14.00	6.60	-	-	-	-	7.40	-	
	05/05/2014	14.00	5.41	-	-	-	-	8.59	-	
	05/12/2014	14.00	6.89	-	-	-	-	7.11	-	
	05/19/2014	14.00	6.16	-	-	-	-	7.84	-	
	05/27/2014	14.00	6.70	-	-	-	-	7.30	-	
	06/02/2014	14.00	6.94	-	-	-	-	7.06	-	
	06/09/2014	14.00	7.81	-	-	-	-	6.19	-	
	06/16/2014	14.00	6.47	-	-	-	-	7.53	-	
	06/23/2014	14.00	6.69	-	-	-	-	7.31	-	
	07/02/2014	14.00	7.00	-	-	-	-	7.00	-	
	07/07/2014	14.00	7.27	-	-	-	13.42	6.73	-	
	07/14/2014	14.00	6.70	-	-	-	-	7.30	-	
	07/25/2014	14.00	7.33	-	-	-	13.30	6.67	-	
	07/31/2014	14.00	7.22	-	-	-	13.30	6.78	-	
	08/08/2014	14.00	7.39	-	-	-	-	6.61	-	
	08/11/2014	14.00	7.17	-	-	-	13.20	6.83	-	
	08/15/2014	14.00	7.05	-	-	-	-	6.95	-	
	08/18/2014	14.00	7.14	-	-	-	-	6.86	-	
	08/25/2014	9.88	6.87	-	-	-	-	3.01	-	
	09/02/2014	9.88	7.43	-	-	-	-	2.45	-	
	09/15/2014	9.88	7.33	-	-	-	-	2.55	-	
	09/22/2014	9.88	7.28	-	-	-	-	2.60	-	
	10/01/2014	9.88	7.38	-	-	-	12.98	2.50	-	
	10/13/2014	9.88	7.30	-	-	-	-	2.58	-	
	10/20/2014	9.88	7.49	-	-	-	12.97	2.39	-	
	02/24/2015	9.88	7.45	-	-	-	-	2.43	14:52	
	05/11/2015	9.88	6.92	-	-	-	12.70	2.96	15:27	
	08/04/2015	9.88	6.88	-	-	-	12.74	3.00	12:10	
	12/01/2015	9.88	5.97	-	-	-	12.99	3.91	13:24	
	03/14/2016	9.88	7.13	-	-	-	13.05	2.75	9:50	
	05/05/2016	9.88	6.53	-	-	-	-	3.35	12:24	
	05/23/2016	9.88	5.13	-	-	-	-	4.75	10:46	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-12S	12/18/2013	38.01	DRY	-	-	-	-	-	-	
	01/08/2014	38.01	DRY	-	-	-	-	-	-	
	03/07/2014	38.01	DRY	-	-	-	-	-	-	
	03/13/2014	38.01	DRY	-	-	-	-	-	-	
	03/20/2014	38.01	DRY	-	-	-	-	-	-	
	03/27/2014	38.01	DRY	-	-	-	-	-	-	
	04/03/2014	38.01	DRY	-	-	-	-	-	-	
	04/08/2014	38.01	DRY	-	-	-	-	-	-	
	04/17/2014	38.01	DRY	-	-	-	-	-	-	
	04/22/2014	38.01	DRY	-	-	-	-	-	-	
	04/29/2014	38.01	DRY	-	-	-	-	-	-	
	05/05/2014	38.01	DRY	-	-	-	-	-	-	
	05/12/2014	38.01	DRY	-	-	-	-	-	-	
	05/19/2014	38.01	DRY	-	-	-	-	-	-	
	06/02/2014	38.01	DRY	-	-	-	-	-	-	
	06/09/2014	38.01	DRY	-	-	-	-	-	-	
	06/16/2014	38.01	26.37	-	-	-	-	11.64	-	
	06/23/2014	38.01	26.37	-	-	-	-	11.64	-	
	07/02/2014	38.01	26.40	-	-	-	-	11.61	-	
	07/07/2014	38.01	26.40	-	-	-	26.60	11.61	-	
	07/14/2014	38.01	26.48	-	-	-	-	11.53	-	
	07/24/2014	38.01	26.48	-	-	-	-	11.53	-	
	07/31/2014	38.01	26.48	-	-	-	26.56	11.53	-	
	08/08/2014	38.01	26.49	-	-	-	26.60	11.52	-	
	08/11/2014	38.01	26.47	-	-	-	-	11.54	-	
	08/15/2014	38.01	26.47	-	-	-	26.58	11.54	-	
	08/18/2014	38.01	26.47	-	-	-	-	11.54	-	
	08/25/2014	38.01	26.47	-	-	-	-	11.54	-	
	09/02/2014	31.33	24.84	-	-	-	24.97	6.49	-	
	09/15/2014	31.33	24.82	-	-	-	-	6.51	-	
	09/22/2014	31.33	24.83	-	-	-	-	6.50	-	
	10/01/2014	31.33	24.81	-	-	-	24.91	6.52	-	
	10/10/2014	31.33	24.82	-	-	-	-	6.51	-	
	10/20/2014	31.33	24.82	-	-	-	24.92	6.51	-	
	02/24/2015	31.33	24.81	-	-	-	-	6.52	15:47	
	05/11/2015	31.33	24.82	-	-	-	24.90	6.51	10:40	
	08/04/2015	31.33	24.78	-	-	-	25.00	6.55	10:25	
	12/01/2015	31.33	24.82	-	-	-	24.92	6.51	11:32	
	03/14/2016	31.33	24.76	-	-	-	25.00	6.57	9:34	
	05/23/2016	31.33	24.75	-	-	-	24.90	6.58	11:19	
	05/25/2016	31.33	24.69	-	-	-	24.91	6.64	12:08	not enough water to sample

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments
TW-14	01/17/2014	15.55	2.48	-	-	-	-	13.07	-	
	03/07/2014	15.55	2.29	-	-	-	-	13.26	-	
	03/13/2014	15.55	2.55	-	-	-	-	13.00	-	
	03/20/2014	15.55	2.25	-	-	-	-	13.30	-	
	03/27/2014	15.55	2.42	-	-	-	-	13.13	-	
	04/03/2014	15.55	2.31	-	-	-	-	13.24	-	
	04/08/2014	15.55	2.27	-	-	-	-	13.28	-	
	04/17/2014	15.55	2.26	-	-	-	-	13.29	-	
	04/22/2014	15.55	2.48	-	-	-	-	13.07	-	
	04/29/2014	15.55	2.66	-	-	-	-	12.89	-	
	05/05/2014	15.55	2.56	-	-	-	-	12.99	-	
	05/12/2014	15.55	2.58	-	-	-	-	12.97	-	
	05/19/2014	15.55	2.38	-	-	-	-	13.17	-	
	06/02/2014	15.55	2.52	-	-	-	-	13.03	-	
	06/09/2014	15.55	2.50	-	-	-	-	13.05	-	
	06/16/2014	15.55	2.31	-	-	-	-	13.24	-	
	06/23/2014	15.55	2.44	-	-	-	-	13.11	-	
	07/02/2014	15.55	4.63	-	-	-	-	10.92	-	
	07/07/2014	15.55	4.65	-	-	-	7.27	10.90	-	
	07/14/2014	15.55	4.40	-	-	-	-	11.15	-	
	07/24/2014	15.55	4.46	-	-	-	-	11.09	-	
	07/31/2014	15.55	4.63	-	-	-	7.39	10.92	-	
	08/08/2014	15.55	4.43	-	-	-	7.39	11.12	-	
	08/11/2014	15.55	4.57	-	-	-	-	10.98	-	
	08/15/2014	15.55	4.36	-	-	-	7.39	11.19	-	
	08/18/2014	15.55	4.49	-	-	-	-	11.06	-	
	08/25/2014	11.61	3.01	-	-	-	-	8.60	-	
	09/02/2014	11.61	3.03	-	-	-	-	8.58	-	
	09/15/2014	11.61	3.19	-	-	-	-	8.42	-	
	09/22/2014	11.61	3.38	-	-	-	-	8.23	-	
	10/01/2014	11.61	3.50	-	-	-	5.90	8.11	-	
	10/10/2014	11.61	3.67	-	-	-	-	7.94	-	
	10/20/2014	11.61	3.02	-	-	-	5.90	8.59	-	
	02/24/2015	11.61	2.67	-	-	-	-	8.94	15:29	
	02/26/2015	11.61	2.68	-	-	-	5.90	8.93	12:00	
	05/11/2015	11.61	3.28	-	-	-	6.90	8.33	10:30	
	08/04/2015	11.61	3.37	-	-	-	5.98	8.24	10:31	
	08/11/2015	11.61	3.65	-	-	-	6.00	7.96	12:00	
	08/18/2015	11.61	3.83	-	-	-	-	7.78	9:15	
	12/01/2015	11.61	2.76	-	-	-	-	8.85	9:15	
	03/14/2016	11.61	2.80	-	-	-	6.02	8.81	10:11	
	05/23/2016	11.61	2.71	-	-	-	6.00	8.90	11:24	

Table 2

GROUNDWATER GAUGING DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom - Measured Depth (ft)	Groundwater Elevation (ft)	Time	Comments

Notes:
Specific gravity was tested at MW-05 and MW-25, and the average specific gravity (0.878) is used for groundwater elevation adjustments.

cont.	= continued
-	= Not available
ft	= Feet
gal	= gallons
DRY	= No / Insufficient water
LNAPL	= Light Non-Aqueous Phase Liquid
NM	= Not Measured
NA	= Not applicable
NG	= Not gauged
NR	= Not recorded
TRACE	= LNAPL thickness is less than 0.01 feet

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-01S	10/10/2014	10.2	6.3	-	-	0.53	6.68	17.69	-95.0	880	-
	10/20/2014	1.0	6.3	10.1	10.3	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.80	6.63	17.81	-91.6	369	-
	2/24/2015	8.4	3.0	12.2	26.6	0.10	6.53	16.31	-172.6	724	-
	5/11/2015	64.8	1.6	10.8	27.8	PRODUCT					
	8/4/2015	11.4	8.9	7.2	9.2	PRODUCT					
	3/14/2016	78.8	3.5	10.8	2.2	0.13	6.65	16.46	-104.0	860	-
	4/21/2016	14.8	20.8	0.3	0.1	0.11	6.62	16.14	-57.6	970	-
	5/23/2016	0.0	20.9	0.0	0.0	PRODUCT					
MW-05 / RW-05	10/13/2014	15.9	13.0	-	-	PRODUCT					
	10/15/2014	137.0	9.6	-	-	PRODUCT					
	2/24/2015	11.4	1.0	15.9	25.3	PRODUCT					
	5/11/2015	90.2	5.8	11.1	19.6	PRODUCT					
	8/4/2015	71.9	18.2	1.9	2.1	PRODUCT					
	12/1/2015	12.8	2.6	15.1	26.6	PRODUCT					
	3/14/2016	98.8	19.8	0.7	0.4	PRODUCT					
	5/23/2016	0.2	20.8	0.0	0.0	8.46	3.48	16.03	385.0	3,150	-
MW-08S	10/13/2014	21.0	14.5	-	-	0.89	6.68	18.18	-123.6	1,488	-
	10/13/2014	-	-	-	-	0.81	6.70	18.26	-108.0	1,386	-
	10/14/2014	-	-	-	-	0.16	6.77	18.18	-129.0	1,424	-
	10/15/2014	8.7	20.4	-	-	0.83	6.68	18.29	-105.8	1,325	-
	10/15/2014	-	-	-	-	0.28	6.66	18.23	-113.1	1,408	-
	10/20/2014	15.9	10.9	6.2	1.9	-	-	-	-	-	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-08S (cont.)	10/22/2014	-	-	-	-	1.24	6.59	18.27	-98.8	1,276	-
	2/24/2015	49.3	0.4	13.8	15.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.09	6.69	16.81	-137.5	1,236	-
MW-10S / RW-10S	10/13/2014	23.1	17.0	-	-	0.75	6.59	18.17	-117.6	1,202	-
	10/13/2014	-	-	-	-	0.60	6.60	18.20	-113.0	1,185	-
	10/15/2014	8.3	20.4	-	-	0.41	6.54	18.23	-118.5	1,185	-
	10/15/2014	-	-	-	-	0.60	6.56	18.30	-104.5	1,189	-
	10/16/2014	18.5	20.9	-	-	-	-	-	-	-	-
	10/20/2014	25.2	15.2	3.7	0.2	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.30	6.48	18.44	-72.7	1,002	-
	2/24/2015	54.5	1.0	14.7	3.4	-	-	-	-	-	-
	5/11/2015	22.6	6.5	9.2	7.6	-	-	-	-	-	-
	8/4/2015	53.6	4.2	10.6	7.6	0.02	6.73	16.52	-90.0	1,440	-
	3/14/2016	134.2	19.4	1.2	0.4	0.14	6.59	15.38	-121.4	1,350	-
	4/21/2016	190.3	17.5	2.5	0.5	-	-	-	-	-	-
	5/23/2016	44.3	20.9	0.3	0.0	6.87	3.93	15.87	114.8	1,570	-
MW-11	10/13/2014	5.4	19.0	-	-	2.30	6.27	18.16	56.2	324	-
	10/13/2014	-	-	-	-	3.23	6.14	18.29	48.6	349	-
	10/15/2014	23.6	15.3	-	-	-	-	-	-	-	-
	10/20/2014	22.0	11.6	6.3	1.9	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.38	5.73	18.38	160.2	323	-
	2/24/2015	3.2	19.3	3.7	0.1	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.12	5.60	17.83	62.6	370	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-11 (cont.)	5/11/2015	0.6	20.6	0.2	0.1	0.07	5.66	17.27	91.2	390	-
	8/4/2015	4.3	2.5	15.0	26.8	0.09	6.66	18.45	-39.8	1,150	-
MW-14	10/13/2014	15.9	17.2	-	-	2.79	6.00	18.13	68.0	368	-
	10/20/2014	82.4	14.4	3.7	1.3	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.26	5.79	18.43	216.2	310	-
	2/24/2015	188.0	14.4	0.9	0.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.84	6.25	17.90	-98.6	460	-
	5/11/2015	166.8	18.4	2.4	0.2	0.07	6.22	17.30	-69.6	420	-
	8/4/2015	11.9	17.8	3.2	0.3	0.07	6.72	17.10	-69.4	1,100	-
	3/14/2016	143.4	13.6	5.9	0.8	0.10	6.35	16.95	-84.7	490	-
	4/21/2016	503.7	20.4	1.5	0.8	PRODUCT					
	5/23/2016	132.0	20.8	0.3	0.2	PRODUCT					
MW-15S	10/13/2014	34.0	12.4	-	-	0.84	6.32	18.03	-17.1	647	-
	10/20/2014	18.2	2.2	11.6	0.0	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.88	6.48	17.61	-37.4	989	-
MW-16S	10/10/2014	9.0	7.2	-	-	-	-	-	-	-	-
	2/24/2015	0.0	5.5	12.4	0.1	1.54	6.11	14.50	60.2	1,600	-
MW-16	10/10/2014	11.1	6.9	-	-	0.46	5.88	17.50	162.4	707	-
	10/22/2014	-	-	-	-	0.87	5.79	17.75	211.0	681	30,200
	2/24/2015	0.0	20.9	0.3	0.1	2.62	5.92	17.57	101.8	1,010	-
	5/11/2015	-	-	-	-	0.49	5.83	17.05	112.4	830	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-25S	10/13/2014	-	-	-	-	0.96	6.46	18.51	-84.0	914	-
	10/13/2014	13.0	20.3	-	-	-	-	-	-	-	-
	10/15/2014	192.0	19.3	-	-	-	-	-	-	-	-
	10/16/2014	34.4	20.9	-	-	-	-	-	-	-	-
	10/20/2014	30.2	16.6	3.4	0.3	-	-	-	-	-	-
	2/24/2015	127.0	3.6	12.7	2.3	-	-	-	-	-	-
	5/11/2015	51.8	6.5	8.3	6.4	-	-	-	-	-	-
	8/4/2015	70.5	4.4	9.5	4.6	-	-	-	-	-	-
MW-25 / RW-25	10/13/2014	139.0	19.2	-	-	-	-	-	-	-	-
	10/14/2014	79.0	17.5	-	-	-	-	-	-	-	-
	10/15/2014	8.4	20.9	-	-	-	-	-	-	-	-
	10/16/2014	28.2	14.3	-	-	-	-	-	-	-	-
	2/24/2015	121.0	15.4	5.5	1.3	-	-	-	-	-	-
	5/11/2015	263.0	11.6	6.7	0.6	-	-	-	-	-	-
	8/4/2015	118.4	15.8	3.7	0.4	-	-	-	-	-	-
	12/1/2015	79.5	14.7	5.4	1.1	-	-	-	-	-	-
	3/14/2016	6.2	10.9	8.9	3.2	-	-	-	-	-	-
	4/21/2016	50.2	20.9	0.2	0.2	8.30	5.45	16.77	154.2	310	-
	5/23/2016	23.1	20.7	0.1	0.0	6.45	5.54	17.26	142.1	340	-
MW-27	10/10/2014	41.5	17.7	-	-	0.28	6.55	17.74	-79.8	1,075	-
	10/15/2014	7.3	20.9	-	-	0.02	6.51	17.97	-36.3	1,057	-
	10/15/2014	21.9	16.1	-	-	1.67	6.37	18.18	44.5	831	-
	10/16/2014	21.9	16.1	-	-	-	-	-	-	-	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-27 (cont.)	10/20/2014	25.3	14.3	6.5	8.6	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.54	6.46	17.97	743.0	153	1,540
	2/24/2015	21.1	2.3	12.2	13.6	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.06	6.61	15.83	-85.6	1,228	-
	5/11/2015	127.3	8.1	7.9	0.0	0.08	6.54	14.84	-110.0	1,300	-
	8/4/2015	28.5	1.3	13.2	16.6	0.03	6.68	15.93	-49.3	1,260	-
	12/1/2015	67.4	2.2	16.9	31.9	0.06	6.57	17.28	-51.5	1,190	-
	3/14/2016	70.8	1.0	15.5	0.6	0.08	6.54	14.77	-142.5	1,390	-
	4/21/2016	123.2	20.3	1.0	0.3	10.15	6.80	14.65	90.9	740	-
	5/23/2016	11.4	20.7	0.3	0.0	4.96	6.79	14.39	30.5	780	-
MW-31 / RW-31	10/10/2014	120.5	6.2	-	-	0.39	6.97	18.62	-119.7	899	-
	10/15/2014	62.5	15.0	-	-	0.59	6.83	19.04	-119.9	848	-
	10/15/2014	0.0	20.9	-	-	0.90	6.61	19.57	-47.6	541	-
	10/20/2014	11.8	17.4	1.1	0.3	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.41	6.98	18.69	-15.9	791	728
	2/24/2015	179.0	2.1	0.2	0.3	0.02	7.08	14.47	-164.3	927	-
	5/11/2015	36.9	5.8	4.1	0.1	0.00	7.06	12.74	-129.3	1,010	-
	8/4/2015	41.3	3.9	5.4	1.7	0.02	7.18	15.92	-13.7	1,010	-
	5/23/2016	-	-	-	-	7.34	6.69	15.56	82.4	620	-
MW-33	10/10/2014	1.4	9.7	-	-	0.68	5.81	17.97	157.4	654	-
	10/15/2014	0.5	19.0	-	-	0.09	5.84	18.30	64.9	633	-
	10/15/2014	0.0	20.9	-	-	0.42	5.86	18.30	92.6	658	-
	10/20/2014	1.0	12.0	5.4	0.0	-	-	-	-	-	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-33 (cont.)	10/23/2014	-	-	-	-	2.37	6.05	18.24	186.7	698	1,120
	2/24/2015	0.0	20.6	0.1	0.1	2.35	5.51	15.51	88.7	648	-
	5/11/2015	21.4	19.0	1.0	0.0	0.47	5.69	14.03	88.0	720	-
	8/4/2015	1.4	3.3	8.6	0.0	0.05	6.29	15.84	48.5	780	
MW-51S	10/13/2014	23.0	5.7	-	-	0.64	6.72	18.32	-120.0	1,457	-
	10/13/2014	1.0	-	-	-	0.75	6.65	18.35	-78.8	1,000	-
	10/14/2014	-	-	-	-	0.33	6.64	18.46	-71.8	1,047	-
	10/15/2014	1.2	20.0	-	-	1.62	6.60	18.43	1.5	566	-
	10/15/2014	-	-	-	-	0.74	6.62	18.45	-84.6	1,122	-
	10/20/2014	22.3	10.6	6.3	1.5	-	-	-	-	-	-
	10/22/2014	-	-	-	-	0.81	6.67	18.47	-93.7	1,153	-
	2/24/2015	9.9	0.9	13.5	27.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.08	6.70	16.75	-110.9	1,968	-
	5/11/2015	40.8	1.2	12.1	28.3	0.02	6.74	16.21	-113.3	1,830	-
	8/4/2015	15.2	0.7	13.2	27.5	0.04	6.82	16.33	-96.0	1,440	-
	3/14/2016	62.4	4.8	10.6	0.6	0.27	6.63	16.10	-129.3	2,250	-
	4/21/2016	12.4	13.2	1.6	0.3	0.06	6.65	16.57	-79.9	1,760	-
	5/23/2016	0.0	20.9	0.0	0.0	0.59	6.83	16.74	-96.6	2,290	-
MW-51 / RW-51	10/13/2014	135.0	18.0	-	-	-	-	-	-	-	-
	10/15/2014	100.8	14.0	-	-	0.33	6.60	18.57	-86.9	1,014	-
	10/20/2014	31.5	11.6	4.9	3.2	-	-	-	-	-	-
	2/24/2015	35.1	4.7	11.4	6.0	-	-	-	-	-	-
	5/11/2015	100.3	1.2	12.6	5.1	-	-	-	-	-	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-51 / RW-51 (cont.)	8/4/2015	104.3	19.6	1.0	1.6	-	-	-	-	-	-
	12/1/2015	18.5	17.8	2.4	1.2	-	-	-	-	-	-
	3/14/2016	30.0	19.0	1.7	0.2	-	-	-	-	-	-
	4/21/2016	59.9	20.9	0.3	0.2	5.13	6.43	16.38	46.7	740	-
	5/23/2016	33.1	20.6	0.3	0.0	5.43	6.57	17.44	19.6	700	-
MW-52	10/10/2014	5.4	16.3	-	-	1.15	5.87	17.51	45.9	465	-
MW-70	10/10/2014	0.3	16.2	-	-	2.12	5.76	17.30	98.7	843	-
	2/24/2015	0.0	17.8	1.3	0.2	1.02	5.53	16.71	-36.2	900	-
	5/11/2015	-	-	-	-	0.40	5.49	16.51	120.7	790	-
	8/4/2015	-	-	-	-	0.46	5.72	16.24	77.5	820	
MW-72S / RW-72S	10/10/2014	21.7	5.8	-	-	0.55	6.42	18.41	-98.2	1,331	-
	10/15/2014	14.5	14.0	-	-	0.04	6.40	18.56	-85.4	1,340	-
	10/15/2014	-	-	-	-	1.70	6.47	18.70	-53.0	1,246	-
	10/16/2014	95.0	7.8	-	-	-	-	-	-	-	-
	10/20/2014	38.8	9.3	7.4	4.2	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.92	6.39	17.99	-21.2	904	-
	2/24/2015	30.6	5.4	11.5	1.6	0.09	6.54	16.13	-101.9	1,325	-
	5/11/2015	65.0	6.5	9.4	3.3	0.02	6.49	14.58	-110.6	1,340	-
	8/4/2015	8.0	8.2	6.9	0.4	0.11	6.71	16.20	-56.9	1,710	-
	3/14/2016	21.4	15.6	4.1	0.1	2.16	6.59	15.02	-101.1	1,960	-
	5/23/2016	0.0	20.9	0.2	0.0	NO MEASUREMENTS - BAILER CAUGHT IN WELL (RELEASED NEXT SAMPLE DAY)					

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-72 / RW-72	10/10/2014	12.2	6.6	-	-	0.48	5.47	17.86	32.6	743	-
	10/15/2014	14.8	16.8	-	-	0.14	5.41	18.04	110.3	733	-
	10/15/2014	-	-	-	-	2.99	5.75	18.09	108.9	739	-
	10/16/2014	6.9	5.2	-	-	-	-	-	-	-	-
	10/20/2014	10.5	2.0	16.8	13.0	-	-	-	-	-	-
	10/22/2014	-	-	-	-	1.77	5.86	17.73	146.2	533	29,800
	2/24/2015	13.3	14.2	6.9	0.1	0.58	5.48	17.43	82.8	877	-
	5/11/2015	64.5	20.6	0.2	0.0	0.03	5.82	15.99	-21.9	1,080	-
	8/4/2015	6.9	12.7	5.0	3.2	0.02	6.68	16.31	-57.3	1,880	-
	3/14/2016	42.8	19.8	1.0	0.1	0.04	6.62	16.93	-121.3	1,970	-
	4/21/2016	79.2	20.7	0.6	0.2	10.41	5.98	16.45	143.7	660	-
	5/23/2016	0.0	20.9	0.0	0.0	7.92	6.42	16.99	112.8	710	-
MW-100S	10/10/2014	6.5	6.8	-	-	0.40	5.62	18.36	11.8	915	-
	2/24/2015	0.0	17.2	3.5	0.2	4.78	5.79	16.07	25.5	160	-
MW-100	10/10/2014	0.3	20.4	-	-	2.23	5.38	17.60	148.8	531	-
	2/24/2015	0.0	20.4	0.6	0.2	1.02	5.53	16.80	27.5	309	-
MW-102	10/10/2014	0.6	17.7	-	-	2.44	6.10	17.15	68.2	295	-
MW-103	10/10/2014	8.5	19.4	-	-	1.72	6.41	19.90	71.6	610	-
	10/23/2014	-	-	-	-	7.32	6.15	19.14	149.3	598	-
	2/24/2015	0.0	19.5	2.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	5.27	6.17	5.08	85.9	720	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-103 (cont.)	5/11/2015	-	-	-	-	0.13	5.95	12.40	82.3	680	-
MW-104	10/10/2014	5.8	18.9	-	-	1.98	6.90	19.47	6.1	452	-
	10/21/2014	-	-	-	-	2.17	6.93	18.83	102.6	526	3,250
	2/24/2015	0.0	15.1	1.1	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.75	7.07	9.30	50.4	496	-
	5/11/2015	-	-	-	-	1.24	6.89	12.25	54.8	740	-
MW-105	10/10/2014	11.5	19.0	-	-	3.96	6.90	19.03	56.8	427	-
	10/21/2014	-	-	-	-	4.47	6.89	19.20	155.1	393	2,520
	5/11/2015	-	-	-	-	0.42	5.38	11.11	98.1	27,900	-
MW-106	10/10/2014	9.2	17.1	-	-	1.20	4.66	18.99	122.5	2,231	-
	10/14/2014	4.3	18.3	-	-	-	-	-	-	-	-
	10/20/2014	0.2	15.5	3.8	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	1.29	5.20	18.35	97.7	1,529	-
	2/24/2015	0.0	7.1	5.4	0.1	1.03	4.63	9.81	62.0	2,156	-
	5/11/2015	0.7	0.2	7.6	0.2	0.03	5.00	11.73	100.8	2,010	-
	8/4/2015	1.0	12.6	4.5	0.0	0.09	5.66	17.62	31.8	2,080	-
	3/14/2016	0.5	19.2	0.7	0.0	0.06	4.76	10.70	113.8	1,740	-
	4/21/2016	24.7	0.1	8.8	2.9	0.06	6.05	12.10	34.8	1,830	-
	5/23/2016	120.4	19.2	0.7	0.3	1.29	3.88	13.24	319.2	1,430	-
MW-107	10/10/2014	10.5	11.8	-	-	0.62	3.51	18.90	348.4	2,063	-
	10/15/2014	7.3	13.7	-	-	1.51	3.63	19.54	393.0	1,047	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-107 (cont.)	10/15/2014	-	-	-	-	2.52	3.76	19.36	428.9	1,117	-
	10/20/2014	0.3	7.3	9.4	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	3.40	2.90	19.05	480.1	1,462	-
	2/24/2015	0.0	19.3	1.5	0.1	7.33	3.01	11.73	338.5	15,400	-
	5/11/2015	0.8	9.1	6.7	0.0	0.40	3.36	12.51	425.7	2,010	-
	8/4/2015	0.5	7.9	8.2	0.0	0.31	3.69	18.19	347.8	2,360	-
MW-108	10/10/2014	9.5	11.6	-	-	-	-	-	-	-	-
MW-109S	10/10/2014	50.0	11.3	-	-	1.43	6.35	18.20	-83.5	827	-
	10/20/2014	13.8	3.9	13.2	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	0.35	6.03	18.29	59.2	769	-
	2/24/2015	12.9	1.3	14.9	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.35	6.19	13.93	36.7	607	-
	5/11/2015	4.0	13.8	4.8	0.0	0.33	5.96	12.89	124.7	460	-
MW-109	10/10/2014	11.8	19.1	-	-	1.65	6.03	17.98	35.0	247	-
	10/20/2014	0.2	20.8	0.6	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	0.86	5.81	18.04	133.5	261	-
	2/24/2015	6.2	18.5	3.2	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.71	5.74	15.75	137.9	248	-
MW-110S	10/10/2014	9.9	14.4	-	-	0.50	6.32	18.38	-87.8	651	-
	2/24/2015	12.7	4.3	12.8	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.65	6.39	13.79	-19.5	849	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-110	10/10/2014	13.1	16.4	-	-	1.30	5.39	17.98	117.8	215	-
	2/24/2015	5.8	19.4	1.0	0.4	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.70	5.48	15.49	168.1	245	-
MW-111	10/10/2014	7.3	16.9	-	-	1.70	5.82	17.98	75.9	247	-
	2/24/2015	0.0	18.7	1.7	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.21	6.05	15.24	122.6	368	-
MW-112S	10/10/2014	25.0	14.7	-	-	1.95	5.46	18.26	148.5	369	-
	10/20/2014	0.0	12.0	7.9	0.0	-	-	-	-	-	-
	10/21/2014	-	-	-	-	2.50	5.38	18.27	172.9	333	-
	2/24/2015	16.8	6.6	9.7	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.92	5.41	13.06	207.5	347	-
	5/11/2015	2.1	16.3	3.3	0.0	3.37	5.21	13.22	197.2	360	-
MW-112	10/10/2014	14.8	16.3	-	-	2.14	5.56	17.93	157.3	162	-
	2/24/2015	12.3	19.2	1.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	4.34	5.54	15.13	203.8	171	-
MW-113	10/10/2014	6.3	19.2	-	-	6.17	6.35	17.97	83.2	352	-
	2/24/2015	0.0	19.9	1.6	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	5.96	6.73	14.72	73.5	428	-
MW-114	10/10/2014	9.0	6.3	-	-	1.50	5.83	17.65	78.0	310	-
	10/20/2014	0.1	16.0	2.1	0.1	-	-	-	-	-	-
	10/21/2014	-	-	-	-	1.23	6.04	17.81	154.1	262	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
MW-114 (cont.)	2/24/2015	0.0	20.6	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	8.72	6.10	12.05	113.7	326	-
	5/11/2015	0.0	19.4	1.0	0.0	3.99	5.99	15.33	199.7	300	-
MW-121	8/4/2015	-	-	-	-	0.02	7.00	17.04	-13.1	890	-
	12/1/2015	14.8	14.8	3.6	15.2	0.04	6.72	17.44	-91.7	880	-
	3/14/2016	7.0	13.0	4.5	17.6	0.02	6.84	17.13	-159.0	850	-
	5/23/2016	251.2	17.6	4.4	0.7	1.54	6.77	17.35	-50.8	1,230	-
MW-122	8/4/2015	-	-	-	-	0.06	7.04	16.73	-6.3	1,020	-
	12/1/2015	2.2	11.2	4.8	4.8	0.27	6.81	17.06	-86.8	1,130	-
	3/14/2016	5.7	16.2	2.7	1.1	0.11	7.04	16.50	-127.1	1,000	-
	5/23/2016	8.4	20.9	0.1	0.0	0.97	6.81	16.84	-77.1	1,090	-
MW-123S / RW-123S	8/4/2015	-	-	-	-	2.66	12.52	16.99	-53.2	15,080	-
	12/1/2015	0.2	17.8	2.0	10.5	0.13	6.63	17.68	-46.3	810	-
	3/14/2016	73.7	16.8	2.9	3.1	0.86	6.50	15.31	-69.7	770	-
	4/21/2016	247.0	16.9	2.5	0.3	7.78	7.21	15.96	21.5	480	-
	5/23/2016	0.5	19.9	0.5	0.2	6.87	7.28	16.23	65.1	520	-
RW-1	10/13/2014	130.0	19.0	-	-	1.34	6.92	18.45	136.4	495	-
	10/13/2014	79.0	18.9	-	-	3.41	6.41	18.31	158.0	473	-
	10/14/2014	55.0	18.9	-	-	0.53	6.49	18.46	129.6	475	-
	10/15/2014	80.7	19.3	-	-	1.99	6.29	18.43	60.4	292	-
	10/15/2014	-	-	-	-	1.06	6.31	18.49	96.9	314	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
RW-1 (cont.)	10/20/2014	29.2	16.4	3.2	2.4	-	-	-	-	-	-
	10/22/2014	-	-	-	-	2.14	6.50	18.07	85.5	311	-
	2/24/2015	178.0	3.2	4.2	0.2	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.03	6.76	17.88	-86.4	900	-
	12/1/2015	6.9	3.1	8.5	9.5	0.07	6.68	17.28	-57.6	760	-
	3/14/2016	0.1	15.3	3.8	0.0	0.16	6.50	17.06	-89.0	730	-
	4/21/2016	197.4	20.7	0.3	0.2	4.04	6.08	16.83	134.6	240	-
	5/23/2016	0.0	20.9	0.0	0.0	2.36	6.35	17.17	56.0	230	-
RW-05S	8/4/2015	-	-	-	-	0.00	8.88	15.65	-469.6	1,960	-
	12/1/2015	193.7	19.2	1.3	3.5	0.04	6.59	17.01	-89.7	1,560	-
	3/14/2016	44.2	20.3	0.6	0.3	1.78	6.63	14.38	-98.0	1,260	-
	4/21/2016	264.4	19.6	1.2	0.3	6.62	7.09	14.94	-27.4	500	-
	5/23/2016	46.1	20.9	0.2	0.0	3.75	6.11	14.74	39.9	710	-
RW-25S	8/4/2015	3.9	2.1	14.7	59.9	DRY					
	12/1/2015	111.1	13.1	6.5	9.7	-	-	-	-	-	-
	3/14/2016	55.5	18.8	1.4	0.5	-	-	-	-	-	-
	4/21/2016	117.1	13.3	2.8	0.8	-	-	-	-	-	-
	5/23/2016	72.1	20.9	0.3	0.0	DRY					
RW-28S	8/4/2015	48.5	13.8	1.4	0.3	0.17	6.22	16.59	-12.0	1,610	-
	12/1/2015	31.8	17.6	1.6	0.1	0.24	6.50	17.31	-48.20	1,590	-
	3/14/2016	68.8	17.6	2.1	0.2	2.25	6.75	12.79	-86.50	1,330	-
	4/21/2016	9.6	20.8	0.1	0.1	8.47	7.12	15.50	92.30	1,450	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
RW-28S (cont.)	5/23/2016	7.4	20.9	0.1	0.0	6.93	7.18	15.77	85.4	1,360	-
RW-30S	10/10/2014	6.8	7.6	-	-	0.31	6.64	18.50	-59.9	1,155	-
	10/15/2014	15.5	17.2	-	-	-	6.69	19.02	-114.8	1,084	-
	10/15/2014	74.4	10.5	-	-	0.69	6.61	19.43	-60.0	1,030	-
	10/20/2014	2.8	11.5	4.0	0.0	-	-	-	-	-	-
	2/24/2015	16.5	12.8	0.3	0.2	0.40	6.74	14.15	-51.7	742	-
	5/11/2015	49.6	13.4	2.9	0.0	0.81	6.7	13.04	7.0	680	-
	8/4/2015	18.3	16.0	0.5	1.1	1.96	7.12	16.90	-93.7	780	-
	12/1/2015	32.1	15.7	2.6	0.1	0.27	6.75	17.86	-68.4	1,040	-
	3/14/2016	16.4	18.4	2.1	0.3	DRY					
	4/21/2016	122.4	20.2	0.6	0.2	-	-	-	-	-	-
	5/23/2016	36.4	20.6	0.4	0.0	DRY					
RW-116S	8/4/2015	3.8	13.8	3.9	0.6	0.07	6.68	16.35	-77.4	1,710	-
	12/1/2015	50.7	18.8	0.6	1.2	0.06	6.62	16.97	-78.7	1,350	-
	3/14/2016	25.1	20.2	0.8	0.2	0.65	6.59	14.49	-92.3	1,150	-
	4/21/2016	157.5	17.9	1.6	0.3	6.24	6.71	14.11	18.4	700	-
	5/23/2016	29.5	20.9	0.1	0.0	7.89	6.56	14.51	55.8	620	-
RW-117S	8/4/2015	3.2	20.5	0.0	0.0	0.27	6.92	16.29	-76.5	1,740	-
	12/1/2015	422.3	17.3	3.1	2.1	0.06	6.64	17.06	-100.6	1,420	-
	3/14/2016	84.0	19.6	1.2	0.2	DRY					
	4/21/2016	74.5	20.8	0.1	0.2	DRY					
	5/23/2016	54.0	20.9	0.2	0.0	DRY					

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
RW-118S	8/4/2015	19.6	6.4	7.3	0.1	0.14	6.78	16.32	-59.8	1,350	-
RW-119S	8/4/2015	2.4	12.8	3.4	2.1	0.03	6.69	16.60	-15.9	1,020	-
TW-02	10/13/2014	0.3	17.4	-	-	1.01	6.43	18.32	-	523	-
	10/23/2014	-	-	-	-	0.65	6.70	17.24	-63.8	1,189	-
	2/24/2015	0.0	19.9	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.56	6.24	8.82	96.2	991	-
	5/11/2015	-	-	-	-	1.62	6.60	21.64	-49.5	1,230	-
	8/5/2015	-	-	-	-	0.27	6.82	18.28	-68.9	792	31.9
TW-03	10/13/2014	0.3	19.5	-	-	1.86	5.73	19.23	-	503	-
	10/23/2014	-	-	-	-	0.71	6.12	18.54	38.1	489	-
	2/24/2015	0.0	3.1	10.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.75	6.21	8.92	64.8	609	-
	5/11/2015	0.0	8.5	10.2	0.0	2.03	5.77	20.61	110.5	480	-
	8/4/2015	0.0	7.8	14.3	0.0	0.26	5.40	21.76	80.4	602	70.6
	3/14/2016	0.0	9.2	8.0	0.1	-	-	-	-	-	-
	5/23/2016	WELL OPEN & BEING SAMPLED UPON ARRIVAL & NEVER RECEIVED LOW-FLOW SAMPLING DATA									
TW-04	10/13/2014	2.0	19.2	-	-	1.67	5.73	19.08	-	1,344	-
	10/23/2014	-	-	-	-	0.70	5.76	18.95	35.0	1,232	-
	2/24/2015	1.2	15.7	4.4	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	2.36	5.86	6.96	65.1	1,862	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-04 (cont.)	5/11/2015	-	-	-	-	1.92	6.19	19.77	-22.7	1,390	-
	8/4/2015	-	-	-	-	0.16	6.23	19.04	-35.7	1,203	210
TW-05	10/13/2014	129.3	17.0	-	-	1.26	5.23	18.64	61.2	1,204	-
	10/15/2014	8.7	20.5	-	-	-	-	-	-	-	-
	10/20/2014	16.0	20.6	0.1	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.85	5.73	19.04	49.2	1,121	-
	2/24/2015	16.0	11.1	8.6	0.7	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.85	6.19	7.42	37.1	992	-
	5/11/2015	22.1	4.6	12.9	0.0	0.15	5.60	18.61	54.0	800	-
	8/4/2015	8.2	7.2	13.3	0.0	0.38	5.86	19.61	21.5	901	87.0
	3/14/2016	0.3	12.3	6.5	0.0	-	-	-	-	-	-
	5/23/2016	31.7	20.8	0.2	0.0	DID NOT RECEIVE LOW-FLOW SAMPLING DATA					
TW-06	10/13/2014	39.8	14.4	-	-	1.31	6.42	18.99	-	983	-
	10/15/2014	78.9	11.0	-	-	1.33	6.54	21.65	-65.0	873	-
	10/15/2014	-	-	-	-	0.31	6.28	19.79	-46.8	986	-
	10/20/2014	0.8	5.4	12.0	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.84	6.51	18.95	-68.8	823	-
	2/24/2015	0.7	5.0	8.9	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	0.84	6.75	7.20	-32.9	882	-
	5/11/2015	-	-	-	-	1.33	6.49	18.61	-69.1	710	-
	8/4/2015	-	-	-	-	0.22	6.17	19.07	-36.8	975	30.5
	12/1/2015	4.7	1.1	14.5	0.0	-	-	-	-	-	-
	3/14/2016	0.0	11.6	4.1	0.1	-	-	-	-	-	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-06	4/21/2016	0.6	10.3	5.6	0.2	1.45	6.32	16.91	-24.4	620	-
	5/23/2016	0.0	20.8	0.1	0.0	-	-	-	-	-	-
	5/24/2016	-	-	-	-	0.08	6.62	15.82	-17.3	921	-
TW-07	10/13/2014	33.5	16.4	-	-	1.40	4.96	19.08	-	580	-
	10/15/2014	15.6	15.4	-	-	0.40	4.94	20.81	97.9	569	-
	10/20/2014	0.0	14.6	5.0	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	0.41	4.99	19.04	139.5	415	-
	2/24/2015	0.0	14.4	7.2	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	1.53	5.07	7.15	244.8	640	-
	5/11/2015	0.0	9.0	11.0	0.0	2.02	4.70	20.64	202.2	660	-
	8/4/2015	0.0	7.2	16.9	0.0	0.20	4.39	22.88	150.0	629	65.8
	3/14/2016	0.0	18.8	2.3	0.1	-	-	-	-	-	-
	5/23/2016	2.3	19.9	0.7	0.0	-	-	-	-	-	-
	5/24/2016	-	-	-	-	0.90	4.85	15.88	206.9	653	
TW-12S	10/10/2014	0.8	18.5	-	-	-	-	-	-	-	-
	2/24/2015	0.0	15.0	2.8	0.3	-	-	-	-	-	-
TW-14	10/10/2014	2.3	19.5	-	-	-	-	-	-	-	-
	10/20/2014	0.0	20.0	0.7	0.0	-	-	-	-	-	-
	10/23/2014	-	-	-	-	1.99	7.48	19.13	-47.2	562	-
	2/24/2015	0.0	20.3	0.3	0.3	-	-	-	-	-	-
	2/25/2015	-	-	-	-	3.80	7.18	3.96	-6.1	465	-

Table 3

HISTORICAL GROUNDWATER FIELD PARAMETERS DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Head Space Photo Ionization Detector (ppm)	Head Space Oxygen (%)	Head Space Carbon Dioxide (%)	Head Space Methane (%)	Dissolved Oxygen (mg/L)	Well pH	Well Temperature (deg C)	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)
TW-14 (cont.)	5/11/2015	-	-	-	-	1.16	7.14	22.53	-114.6	760	-
	8/6/2015	-	-	-	-	0.73	6.88	24.20	-107.8	828	-

Notes:

-	= Not available	mV	= Millivolts
%	= Percent	ORP	= Oxidation-Reduction Potential
µS/cm	= Microsiemens per centimeter	ppm	= Parts per million
deg C	= Degrees Celsius	NTU	= Nephelometric Turbidity Unit
mg/L	= Milligrams per liter	DRY	= Not enough water in well to take measurements.
(cont.)	= continued	PRODUCT	= No measurements taken due to product in the well.

Table 4

APRIL MONITORING AND SAMPLING PLAN

Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

		Field Parameters								Laboratory Parameters									
Well ID	**Aquifer Zone**	**pH**	**Specific Conductance**	**Temperature**	**Oxidation Reduction Potential**	**Dissolved Oxygen**	**Headspace CO_2 concentration**	**Headspace VOC concentration**	**Headspace O2**	**TPH-DRO C10-C28 (SW-846 8015B)**	**BTEX Naphthalene (8260)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} (EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
MW-01S	Shallow	X	X	X	X	X	X	X	X	X								P&S	
MW-05 / RW-05	Deep																	NS	
MW-08S	Shallow									X								P&S	
MW-10S/RW-10S	Shallow	X	X	X	X	X	X	X	X	X								P&S	LNAPL**
MW-11	Deep																	NS	
MW-14	Deep	X	X	X	X	X	X	X	X	X								P&S	LNAPL**
MW-15S	Shallow																	NS	
MW-16S	Shallow																	NS	
MW-16	Deep																	NS	
MW-25S	Shallow									X								P&S	LNAPL**
MW-25 / RW-25	Deep	X	X	X	X	X	X	X	X	X								P&S	
MW-27	Deep	X	X	X	X	X	X	X	X	X								P&S	
MW-31 / RW-31	Deep									X								P&S	
MW-33	Deep																	NS	
MW-51S	Shallow	X	X	X	X	X	X	X	X	X								P&S	
MW-51 / RW-51	Deep	X	X	X	X	X	X	X	X	X								P&S	
MW-52	Deep																	NS	
MW-70	Deep																	NS	
MW-72S	Shallow																	NS	
MW-72 / RW-72	Deep	X	X	X	X	X	X	X	X	X								P&S	

Table 4

APRIL MONITORING AND SAMPLING PLAN

Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

		Field Parameters								Laboratory Parameters									
Well ID	**Aquifer Zone**	**pH**	**Specific Conductance**	**Temperature**	**Oxidation Reduction Potential**	**Dissolved Oxygen**	**Headspace CO_2 concentration**	**Headspace VOC concentration**	**Headspace O2**	**TPH-DRO C10-C28 (SW-846 8015B)**	**BTEX Naphthalene (8260)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} (EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
MW-100S	Shallow																	NS	
MW-100	Deep																	NS	
MW-102	Deep																	NS	
MW-103	Shallow																	NS	
MW-104	Shallow																	NS	
MW-105	Shallow																	NS	
MW-106	Deep																	NS	
MW-107	Deep																	NS	
MW-108	Deep																	NS	Typically Dry
MW-109S	Shallow																	NS	basement wells
MW-109	Deep																	NS	
MW-110S	Shallow																	NS	
MW-110	Deep																	NS	
MW-111	Deep																	NS	
MW-112S	Shallow																	NS	
MW-112	Deep																	NS	
MW-113	Deep																	NS	
MW-114	Deep																	NS	
MW-121	Deep																	NS	
MW-122	Deep																	NS	
MW-123S/RW-123S	Shallow	X	X	X	X	X	X	X	X	X								NS	
TW-02	Deep																	NS	

Table 4

APRIL MONITORING AND SAMPLING PLAN

Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

		Field Parameters								Laboratory Parameters									
Well ID	**Aquifer Zone**	**pH**	**Specific Conductance**	**Temperature**	**Oxidation Reduction Potential**	**Dissolved Oxygen**	**Headspace CO_2 concentration**	**Headspace VOC concentration**	**Headspace O2**	**TPH-DRO C10-C28 (SW-846 8015B)**	**BTEX Naphthalene (8260)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} (EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
TW-03	Deep																	NS	
TW-04	Deep																	NS	
TW-05	Deep																	NS	
TW-06	Deep																	NS	
TW-07	Deep																	NS	
TW-12S	Shallow																	NS	
TW-14	Shallow																	NS	
RW-1	Deep	X	X	X	X	X	X	X	X	X								P&S	
RW-05S	Shallow	X	X	X	X	X	X	X	X	X								P&S	
RW-25S	Shallow	X	X	X	X	X	X	X	X	X								P&S	LNAPL**
RW-28S	Shallow	X	X	X	X	X	X	X	X	X								P&S	
RW-30S	Shallow	X	X	X	X	X	X	X	X	X								P&S	
RW-116S	Shallow	X	X	X	X	X	X	X	X	X								P&S	
RW-117S	Shallow	X	X	X	X	X	X	X	X	X								P&S	
RW-118S	Shallow									X								P&S	
RW-119S	Shallow									X								P&S	

Notes: ** - Wells with LNAPL will only be sampled when no measurable LNAPL is observed.
P&S - Purge and Sample
NS - No Sampling Planned

Table 5

MAY MONITORING AND SAMPLING PLAN

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

		Field Parameters								Laboratory Parameters									
Well ID	**Aquifer Zone**	**pH**	**Specific Conductance**	**Temperature**	**Oxidation Reduction Potential**	**Dissolved Oxygen**	**Headspace CO2 concentration**	**Headspace VOC concentration**	**Headspace O2**	**TPH-DRO C10-C28 (SW-846 8015B)**	**BTEX Naphthalene (8260)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} (EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
MW-01S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	LNAPL**; Begin biostimulation sampling 1Q16
MW-05 / RW-05	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	
MW-08S	Shallow									Q	A							P&S	
MW-10S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	Begin biostimulation sampling 1Q16
MW-11	Deep									A								P&S	
MW-14	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	P&S	LNAPL**; Begin biostimulation sampling 1Q16
MW-15S	Shallow									A								P&S	
MW-16S	Shallow																	NS	Gauge only
MW-16	Deep																	NS	Gauge only
MW-25S	Shallow									Q	A							P&S	LNAPL**
MW-25 / RW-25	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	
MW-27	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	
MW-31 / RW-31	Deep									Q								P&S	
MW-33	Deep									A								P&S	
MW-51S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	P&S	Begin biostimulation sampling 1Q16
MW-51 / RW-51	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	
MW-52	Deep																	NS	Gauge only
MW-70	Deep																	NS	Gauge only
MW-72S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	Begin biostimulation sampling 1Q16

Table 5

MAY MONITORING AND SAMPLING PLAN

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

		Field Parameters								Laboratory Parameters									
Well ID	**Aquifer Zone**	**pH**	**Specific Conductance**	**Temperature**	**Oxidation Reduction Potential**	**Dissolved Oxygen**	**Headspace CO2 concentration**	**Headspace VOC concentration**	**Headspace O2**	**TPH-DRO C10-C28 (SW-846 8015B)**	**BTEX Naphthalene (8260)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} (EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
MW-72 / RW-72	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	Begin biostimulation sampling 1Q16
MW-100S	Shallow	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	P&S	
MW-100	Deep	A	A	A	A	A	A	A	A	A		A	A	A	A	A	A	P&S	
MW-102	Deep																	NS	Gauge only
MW-103	Shallow																	NS	Gauge only
MW-104	Shallow																	NS	Gauge only
MW-105	Shallow																	NS	Gauge only
MW-106	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	Begin biostimulation sampling 1Q16
MW-107	Deep									A								P&S	
MW-108	Deep									Q								P&S	Typically Dry
MW-109S	Shallow									A								P&S	basement wells
MW-109	Deep									A								P&S	
MW-110S	Shallow									A								P&S	
MW-110	Deep									A								P&S	
MW-111	Deep									A								P&S	
MW-112S	Shallow									A								P&S	
MW-112	Deep									A								P&S	
MW-113	Deep									A								P&S	
MW-114	Deep									A								P&S	
MW-121	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	
MW-122	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q	A	Q	Q	Q	Q	Q	Q	P&S	
MW-123S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
TW-02	Deep																	NS	Gauge only
TW-03	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	LF	Begin biostimulation sampling 1Q16
TW-04	Deep									Q								LF	

Table 5

MAY MONITORING AND SAMPLING PLAN

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

		Field Parameters								Laboratory Parameters									
Well ID	**Aquifer Zone**	**pH**	**Specific Conductance**	**Temperature**	**Oxidation Reduction Potential**	**Dissolved Oxygen**	**Headspace CO2 concentration**	**Headspace VOC concentration**	**Headspace O2**	**TPH-DRO C10-C28 (SW-846 8015B)**	**BTEX Naphthalene (8260)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} (EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
TW-05	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	LF	Begin biostimulation sampling 1Q16
TW-06	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	LF	
TW-07	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q								LF	Begin collection of field parameters 1Q16
TW-12S	Shallow									Q								P&S	Dry
TW-14	Shallow									Q	A							LF	
RW-1	Deep	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-05S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-25S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q	A							P&S	LNAPL**
RW-28S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-30S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	Begin collection of field parameters 1Q16
RW-116S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-117S	Shallow	Q	Q	Q	Q	Q	Q	Q	Q	Q								P&S	
RW-118S	Shallow									Q								P&S	
RW-119S	Shallow									Q								P&S	

Notes:

2Q2016 - TW-03 was not gauged because well was being sampled during measuring time. TW-05 was not sampled because of an interference caused by the new sparge points which led to air entering the well and too high of a turbidity to sample. TW-12S, RW-30S, and RW-117S were not sampled because they were dry or there was not enough water in the well. Select annual samples were collected during the 4th quarter of 2015. Moving forward, annual sampling to be completed in the 4th quarter of a year.

** - Wells with LNAPL will only be sampled when no measurable LNAPL is observed.

Q - Quarterly sampling frequency

A - Annual sampling frequency

P&S - Purge and Sample

LF - Low Flow Sampling

NS - No Sampling Planned

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-01S	8/15/2014	-	-	-	-	-	-	-	-	-	-	2,670
	10/22/2014	-	-	-	-	-	-	-	-	-	-	23,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	56,000
MW-08S	8/15/2014	-	-	-	-	-	-	-	-	-	-	7,540
	10/22/2014	-	-	-	-	-	-	-	-	-	-	52,000
	2/26/2015	-	-	-	-	-	-	-	-	-	-	22,000
	5/12/2015	-	-	-	-	-	-	-	-	-	-	27,000
	8/4/2015	-	-	-	-	-	-	-	-	-	-	14,000
	12/2/2015	61	<0.5	5	48	-	-	-	-	30	-	15,000
	3/16/2016	-	-	-	-	-	-	-	-	-	-	20,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	11,000
	5/24/2016	-	-	-	-	-	-	-	-	-	-	8,500
MW-10S / RW-10S	8/15/2014	-	-	-	-	-	-	-	-	-	-	36,000
	10/22/2014	-	-	-	-	-	-	-	-	-	-	100,000
	3/14/2016	-	-	-	-	-	-	-	-	-	-	29,000
	5/24/2016	-	-	-	-	-	-	-	-	-	-	270,000
MW-11	8/16/2014	-	-	-	-	-	-	-	-	-	-	423
	10/22/2014	-	-	-	-	-	-	-	-	-	-	840
	2/26/2015	-	-	-	-	-	-	-	-	-	-	920
	5/12/2015	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	-	900
	8/5/2015	-	-	-	-	-	-	-	-	-	-	5,300
	12/2/2015	-	-	-	-	-	-	-	-	-	-	2,000

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-14	8/15/2014	-	-	-	-	-	-	-	-	-	-	305
	10/22/2014	-	-	-	-	-	-	-	-	-	-	2,100
	2/25/2015	-	-	-	-	-	-	-	-	-	-	6,000
	5/12/2015	-	-	-	-	-	-	-	-	-	-	5,500
	8/5/2015	-	-	-	-	-	-	-	-	-	-	7,300
	12/2/2015	-	-	-	-	-	-	-	-	-	-	1,600
	3/15/2016	-	-	-	-	-	-	-	-	-		28,000
MW-15S	8/15/2014	-	-	-	-	-	-	-	-	-	-	909
	10/22/2014	-	-	-	-	-	-	-	-	-	-	2,800
	2/26/2015	-	-	-	-	-	-	-	-	-	-	2,800
	5/12/2015	-	-	-	-	-	-	-	-	-	-	1,800
	8/4/2015	-	-	-	-	-	-	-	-	-	-	5,900
	12/1/2015	-	-	-	-	-	-	-	-	-	-	4,200
MW-16S	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,720
	9/9/2015	-	-	-	-	-	-	-	-	-		100
MW-16	8/15/2014	-	-	-	-	-	-	-	-	-	-	<300
	10/22/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	<45
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-25S	8/15/2014	-	-	-	-	-	-	-	-	-	-	49,000
	12/5/2014	-	-	-	-	-	-	-	-	-	-	840,000

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-25S (cont.)	1/9/2015	-	-	-	-	-	-	-	-	-	-	2,200,000
MW-25 / RW-25	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,280
	12/5/2014	-	-	-	-	-	-	-	-	-	-	50,000
	1/9/2015	-	-	-	-	-	-	-	-	-	-	56,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	5,800
	5/24/2016	-	-	-	-	-	-	-	-	-	-	3,900
MW-27	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,490
	10/23/2014	0.5	<0.5	2	2	<0.5	2	<0.5	<0.5	6	100	1,900
	2/25/2015	<0.5	<0.5	1	0.5	<0.5	<2	<0.5	<0.5	8.3	120	1,700
	5/13/2015	<0.5	<0.5	2	1	<0.5	2 J	<0.5	<0.5	30	260	19,000
	8/5/2015	-	-	-	-	-	-	-	-	-	-	2,100
	12/3/2015	<0.5	<0.5	<0.5	<0.5	-	-	-	-	1.00 J	-	1,700
	3/15/2016	-	-	-	-	-	-	-	-	-	-	33,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	8,400
	5/25/2016	-	-	-	-	-	-	-	-	-	-	18,000
MW-30S	8/15/2014	-	-	-	-	-	-	-	-	-	-	7,040
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	-	25	2,900
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3.9	22	3,500
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	3,200
MW-31 / RW-31	8/16/2014	-	-	-	-	-	-	-	-	-	-	27,200
	10/23/2014	<0.5	<0.5	0.6	0.6	<0.5	<2	<0.5	<0.5	4	140	7,200
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.7	97	1,800
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3 J	120	14,000

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-31 / RW-31 (cont.)	8/5/2015		-	-	-	-	-	-	-	-	-	2,400
	12/3/2015	-	-	-	-	-	-	-	-	-	-	1,200
	3/15/2016	-	-	-	-	-	-	-	-	-	-	11,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	440
	5/24/2016	-	-	-	-	-	-	-	-	-	-	1,200
MW-33	8/15/2014	-	-	-	-	-	-	-	-	-	-	440
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	<45
	2/25/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.1	<20	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
	12/3/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-51S	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,590
	10/22/2014	-	-	-	-	-	-	-	-	-	-	8,400
	2/26/2015	-	-	-	-	-	-	-	-	-	-	7,100
	5/13/2015	-	-	-	-	-	-	-	-	-	-	17,000
	8/5/2015	-	-	-	-	-	-	-	-	-	-	11,000
	12/2/2015	-	-	-	-	-	-	-	-	-	-	14,000
	3/15/2016	-	-	-	-	-	-	-	-	-		67,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	27,000
	5/24/2016	-	-	-	-	-	-	-	-	-	-	11,000
MW-51 / RW-51	8/11/2014	-	-	-	-	-	-	-	-	-	-	1,180
	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,650
	8/16/2014	-	-	-	-	-	-	-	-	-	-	281,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	2,900

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-51 / RW-51 (cont.)	5/24/2016	-	-	-	-	-	-	-	-	-	-	780
MW-52	8/15/2014	-	-	-	-	-	-	-	-	-	-	<600
	10/22/2014	-	-	-	-	-	-	-	-	-	-	120
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	110
MW-70	8/15/2014	-	-	-	-	-	-	-	-	-	-	<153
	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	-	3,200
	5/12/2015	-	-	-	-	-	-	-	-	-	-	100
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-72S / RW-72S	8/15/2014	-	-	-	-	-	-	-	-	-	-	5,980
	10/22/2014	-	-	-	-	-	-	-	-	-	-	3,300
	2/25/2015	-	-	-	-	-	-	-	-	-	-	3,400
	5/13/2015	13	<0.5	24	<0.5	<0.5	<2	<0.5	<0.5	16.00	-	4,000
	8/5/2015	-	-	-	-	-	-	-	-	-	-	3,700
	12/3/2015	8	<0.5	15	<0.5	-	-	-	-	2.00 J	-	2,100
	3/14/2016	-	-	-	-	-	-	-	-	-		8,200
	5/25/2016	-	-	-	-	-	-	-	-	-	-	3,800
MW-72 / RW-72	8/11/2014	-	-	-	-	-	-	-	-	-	-	<300
	8/13/2014	-	-	-	-	-	-	-	-	-	-	1,100
	8/16/2014	-	-	-	-	-	-	-	-	-	-	1,340
	10/22/2014	41	<0.5	1	66	0.6	2	<0.5	<0.5	61	480	2,000

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-72 / RW-72 (cont.)	2/25/2015	8	<0.5	<0.5	3	<0.5	<2	<0.5	<0.5	<0.030	65	590
	5/13/2015	13	<0.5	<0.5	6	<0.5	<2	<0.5	<0.5	13.00	120	630
	8/5/2015	-	-	-	-	-	-	-	-	-	-	3,900
	12/3/2015	20	<0.5	29	100	-	-	-	-	26	-	960
	3/15/2016	-	-	-	-	-	-	-	-	-		1,200
	4/21/2016	-	-	-	-	-	-	-	-	-	-	350
	5/24/2016	-	-	-	-	-	-	-	-	-	-	360
MW-100S	8/15/2014	-	-	-	-	-	-	-	-	-	-	<300
	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	-	690
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-100	8/15/2014	-	-	-	-	-	-	-	-	-	-	<152
	10/21/2014	-	-	-	-	-	-	-	-	-	-	60
	2/25/2015	-	-	-	-	-	-	-	-	-	-	300
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-102	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500
	10/21/2014	-	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-103	8/15/2014	-	-	-	-	-	-	-	-	-	-	479

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-103 (cont.)	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	26	54
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.033	<20	<45
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	22 J	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-104	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,630
	10/21/2014	<0.5	<0.5	0.7	2	<0.5	<2	<0.5	<0.5	1	59	150
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	<45
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-105	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.06	<20	<45
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45
	8/5/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-106	8/15/2014	-	-	-	-	-	-	-	-	-	-	89,200
	10/22/2014	<0.5	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	23	230	2,000
	2/25/2015	<0.5	<0.5	2	<0.5	<0.5	<2	<0.5	<0.5	4.1	130	9,500
	5/12/2015	<0.5	<0.5	5	<0.5	<0.5	<2	<0.5	<0.5	2 J	75	7,800
	8/5/2015	-	-	-	-	-	-	-	-	-	-	2,300
	12/3/2015	<0.5	<0.5	1	<0.5	-	-	-	-	<1	-	3,300
	3/15/2016	-	-	-	-	-	-	-	-	-	-	2,900
	4/21/2016	-	-	-	-	-	-	-	-	-	-	2,000
	5/24/2016	-	-	-	-	-	-	-	-	-	-	1,100

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-107	8/16/2014	-	-	-	-	-	-	-	-	-	-	8,540
	10/22/2014	<0.5	<0.5	2	2	<0.5	<2	<0.5	<0.5	0.9	49	840
	2/25/2015	1	<0.5	0.7	0.7	<0.5	<2	<0.5	<0.5	-	37	480
	5/12/2015	<0.5	<0.5	2	3	<0.5	<2	<0.5	<0.5	5.00	40 J	150
	8/5/2015	-	-	-	-	-	-	-	-	-	-	280
	12/3/2015	-	-	-	-	-	-	-	-	-	-	730
MW-108	5/25/2016	-	-	-	-	-	-	-	-	-	-	51 J
MW-109S	8/21/2014	-	-	-	-	-	-	-	-	-	-	7,500
	10/20/2014	-	-	-	-	-	-	-	-	-	-	12,000
	2/26/2015	-	-	-	-	-	-	-	-	-	-	1,800
	5/12/2015	<0.5	<0.5	<0.5	<0.5	<0.5	4 J	<0.5	<0.5	<1	-	180
MW-109	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600
	10/20/2014	-	-	-	-	-	-	-	-	-	-	200
	2/26/2015	-	-	-	-	-	-	-	-	-	-	100
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-110S	8/25/2014	-	-	-	-	-	-	-	-	-	-	6,630
	10/20/2014	-	-	-	-	-	-	-	-	-	-	8,500
	2/26/2015	-	-	-	-	-	-	-	-	-	-	6,700
	5/12/2015	-	-	-	-	-	-	-	-	-	-	2,300
MW-110	8/25/2014	-	-	-	-	-	-	-	-	-	-	<153
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-110 (cont.)	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-111	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	-	260
	5/12/2015	-	-	-	-	-	-	-	-	-	-	150
MW-112S	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500
	10/20/2014	-	-	-	-	-	-	-	-	-	-	380
	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-112	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-113	8/21/2014	-	-	-	-	-	-	-	-	-	-	<600
	10/20/2014	-	-	-	-	-	-	-	-	-	-	61
	2/26/2015	-	-	-	-	-	-	-	-	-	-	90
	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-114	8/25/2014	-	-	-	-	-	-	-	-	-	-	<600
	10/20/2014	-	-	-	-	-	-	-	-	-	-	<45
	2/26/2015	-	-	-	-	-	-	-	-	-	-	<45

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
MW-114 (cont.)	5/12/2015	-	-	-	-	-	-	-	-	-	-	<45
MW-121	8/4/2015	-	-	-	-	-	-	-	-	-	-	9,400
	12/2/2015	2.00	<0.5	8.00	<0.5	-	-	-	-	41.00	-	4,500
	3/15/2016	-	-	-	-	-	-	-	-	-		5,500
	5/25/2016	-	-	-	-	-	-	-	-	-	-	12,000
MW-122	8/4/2015	-	-	-	-	-	-	-	-	-	-	2,000
	12/2/2015	1.00	<0.5	8.00	<0.5	-	-	-	-	<1	-	1,600
	3/15/2016	-	-	-	-	-	-	-	-	-		1,800
	5/25/2016	-	-	-	-	-	-	-	-	-	-	4,000
MW-123S / RW-123S	8/5/2015	-	-	-	-	-	-	-	-	-	-	2,400
	12/1/2015	-	-	-	-	-	-	-	-	-	-	2,500
	3/14/2016	-	-	-	-	-	-	-	-	-	-	13,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	150,000
	5/24/2016	-	-	-	-	-	-	-	-	-	-	100,000
RW-1	10/22/2014	-	-	-	-	-	-	-	-	-	-	30,000
	2/26/2015	-	-	-	-	-	-	-	-	-	-	6,200
	5/12/2015	-	-	-	-	-	-	-	-	-	-	8,400
	8/5/2015	-	-	-	-	-	-	-	-	-	-	2,500
	12/2/2015	-	-	-	-	-	-	-	-	-	-	4,300
	3/15/2016	-	-	-	-	-	-	-	-	-		4,300
	4/21/2016	-	-	-	-	-	-	-	-	-	-	2,600
	5/24/2016	-	-	-	-	-	-	-	-	-	-	1,500

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
RW-05S	8/5/2015	-	-	-	-	-	-	-	-	-	-	6,900
	12/2/2015	-	-	-	-	-	-	-	-	-	-	17,000
	3/15/2016	-	-	-	-	-	-	-	-	-		15,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	19,000
	5/24/2016	-	-	-	-	-	-	-	-	-	-	59,000
MW-05/RW-05	5/24/2016	-	-	-	-	-	-	-	-	-	-	62,000
RW-28S	8/5/2015	-	-	-	-	-	-	-	-	-	-	2,300
	12/1/2015	-										2,500
	3/14/2016	-	-	-	-	-	-	-	-	-	-	790
	4/21/2016	-	-	-	-	-	-	-	-	-	-	2,300
	5/24/2016	-	-	-	-	-	-	-	-	-	-	3,300
RW-30S	8/5/2015	-	-	-	-	-	-	-	-	-	-	890
	12/1/2015	-	-	-	-	-	-	-	-	-	-	1,300
	3/14/2016	-	-	-	-	-	-	-	-	-		61,000
RW-116S	8/5/2015	-	-	-	-	-	-	-	-	-	-	7,000
	12/2/2015	-	-	-	-	-	-	-	-	-	-	11,000
	3/14/2016	-	-	-	-	-	-	-	-	-		7,600
	4/21/2016	-	-	-	-	-	-	-	-	-	-	3,000
	5/24/2016	-	-	-	-	-	-	-	-	-	-	230,000
RW-117S	8/5/2015	-	-	-	-	-	-	-	-	-	-	6,600
	12/1/2015	-	-	-	-	-	-	-	-	-	-	13,000

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
RW-118S	8/5/2015	-	-	-	-	-	-	-	-	-	-	8,200
	12/2/2015	-	-	-	-	-	-	-	-	-	-	11,000
	3/14/2016	-	-	-	-	-	-	-	-	-		8,200
	4/21/2016	-	-	-	-	-	-	-	-	-	-	1,100
	5/24/2016	-	-	-	-	-	-	-	-	-	-	1,600
RW-119S	8/5/2015	-	-	-	-	-	-	-	-	-	-	2,700
	12/2/2015	-	-	-	-	-	-	-	-	-	-	2,000
	3/14/2016	-	-	-	-	-	-	-	-	-		4,400
	4/21/2016	-	-	-	-	-	-	-	-	-	-	3,300
	5/24/2016	-	-	-	-	-	-	-	-	-	-	2,100
TW-01	12/16/2013	14.3	ND	13.1	63.5	1.55	-	-	-	119	-	14,100
	7/7/2014	-	-	-	-	-	-	-	-	-	-	27,400
TW-02	12/16/2013	<0.5	<0.5	<0.5	<0.5	0.791	-	-	-	ND	-	584
	7/7/2014	-	-	-	-	-	-	-	-	-	-	<1,160
	8/15/2014	-	-	-	-	-	-	-	-	-	-	<600
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	60
	3/4/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	<45
	5/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	<45
	8/5/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	<45
	12/3/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.07	<20	81 J
	3/16/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	<45
	5/25/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	<45

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HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
TW-03	12/16/2013	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	ND	-	351
	7/7/2014	-	-	-	-	-	-	-	-	-	-	<1,160
	8/15/2014	-	-	-	-	-	-	-	-	-	-	<1,500
	10/23/2014	0.7	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	49
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	<20	180
	5/13/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	21 J	200
	8/5/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	150
	12/2/2015	0.7 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	<20	56 J
	3/16/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.1 J	32 J	150
	5/23/2016 [H]	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.1 J	31 J	190
	5/23/2016[L]	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.1 J	27 J	180
TW-04	12/16/2013	2.2	<0.5	3.45	7.11	<0.5	-	-	-	27.7	-	2,000
	7/7/2014	-	-	-	-	-	-	-	-	-	-	1,270
	8/15/2014	-	-	-	-	-	-	-	-	-	-	1,610
	10/23/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	<20	160
	3/4/2015	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1	27 J	940
	5/13/2015	1 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	33 J	700
	8/6/2015	0.6 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.6	38 J	1,000
	12/2/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	22 J	280
	3/14/2016	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.2	31 J	980
	5/24/2016	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.5	50 J	1,100
TW-05	12/16/2013	7.68	<0.5	62.8	40.3	<0.5	-	-	-	240	-	136,000
	7/7/2014	-	-	-	-	-	-	-	-	-	-	66,300
	8/15/2014	-	-	-	-	-	-	-	-	-	-	271,000

Table 6

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Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
TW-05 (cont.)	10/23/2014	4	<0.5	14	<0.5	<0.5	<2	<0.5	<0.5	21	140	29,000
	3/4/2015	2	<0.50	1	<0.5	<0.5	<2	<0.5	<0.5	3	130	2,200
	5/13/2015	3	<0.50	<0.50	<0.5	<0.5	<2	<0.5	<0.5	1 J	44 J	1,100
	8/6/2015	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.8	37 J	790
	12/1/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	30 J	330
	3/14/2016	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	<20	960
TW-06	12/16/2013	1.09	ND	20.3	7.86	ND	-	-	-	174	-	47,000
	7/7/2014	-	-	-	-	-	-	-	-	-	-	113,000
	8/15/2014	-	-	-	-	-	-	-	-	-	-	147,000
	10/23/2014	0.8	<0.5	11	1	<0.5	<2	<0.5	<0.5	5	230	16,000
	3/4/2015	2	<0.5	6	<0.5	<0.5	<2	<0.5	<0.5	<0.030	170	2,200
	5/13/2015	2	<0.5	4	<0.5	<0.5	<2	<0.5	<0.5	4	130	2,300
	8/6/2015	2	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	2	81	1,400
	12/1/2015	0.8 J	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	0.8	92	1,300
	3/15/2016	0.8 J	<0.5	3	<0.5	<0.5	<2	<0.5	<0.5	1	110	43,000
	4/21/2016	-	-	-	-	-	-	-	-	-	-	32,000
	5/24/2016	<0.5	<0.5	4	<0.5	<0.5	<2	<0.5	<0.5	1	120	1,800
TW-07	12/16/2013	2.38	ND	0.969	ND	ND	-	-	-	34	-	3,290
	7/7/2014	-	-	-	-	-	-	-	-	-	-	41,500
	8/15/2014	-	-	-	-	-	-	-	-	-	-	19,600
	10/23/2014	2	<0.5	0.6	<0.5	<0.5	<2	<0.5	<0.5	6	29	4,700
	3/4/2015	9	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.2	46 J	670
	5/13/2015	10	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3 J	36 J	320
	8/5/2015	7	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2	57	220

Table 6

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Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
TW-07 (cont.)	12/2/2015	3	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1	<20	110
	3/15/2016	3	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	160
	5/24/2016	3	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	20 J	160*
	5/25/2016	-	-	-	-	-	-	-	-	-	-	<45*
TW-08S	7/7/2014	-	-	-	-	-	-	-	-	-	-	29,500
TW-09S	7/7/2014	-	-	-	-	-	-	-	-	-	-	2,330,000
TW-10	12/18/2013	2.51	ND	19.7	4.99	ND	-	-	-	131	-	3,040
	7/7/2014	-	-	-	-	-	-	-	-	-	-	23,400
TW-11	12/18/2013	1.55	0.664	8.3	9.67	0.578	-	-	-	263	-	170,000
	7/7/2014	-	-	-	-	-	-	-	-	-	-	117,000
TW-13	12/18/2013	6.06	ND	44.5	137	ND	-	-	-	239	-	3,580
	7/7/2014	-	-	-	-	-	-	-	-	-	-	17,500
TW-14	1/17/2014	<0.5	<0.5	<0.5	<0.5	0.536	-	-	-	ND	-	2,290
	7/7/2014	-	-	-	-	-	-	-	-	-	-	16,000
	8/15/2014	-	-	-	-	-	-	-	-	-	-	3,900
	10/21/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	100	670
	2/26/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.030	73	120
	5/12/2015	1	<0.5	<0.5	<0.5	<0.5	7.00	<0.5	<0.5	<1	220	2,000
	8/13/2015	1	<0.5	<0.5	<0.5	<0.5	9	<0.5	<0.5	<0.08	130	3,700
	12/1/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	<20	<45

Table 6

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Methyl tert-butyl ether (µg/L)	tert-Butyl alcohol (µg/L)	1,2-Dibromoethane (µg/L)	1,2-Dichloroethane (µg/L)	Naphthalene (µg/L)	TPH-GRO (µg/L)	TPH-DRO (µg/L)
TW-14 (cont.)	3/14/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	54 J
	5/23/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	22 J	45 J

Notes:
MW-01S, MW-25S, RW-25S, and MW-14 were not sampled due to the presence of LNAPL. RW-30S, RW-117S, and TW-12S were not sampled because either the wells were dry or there was not enough water to sample. TW-05 was not sampled because of an interference caused by the new sparge points which led to air entering the well and too high of a turbidity to sample.

-	= Not available
<#	= Less than the method detection limit
µg/L	= Micrograms per liter
J	= Detected between the Method Detection Limit and the Reporting Limit; therefore, result is an estimated value.
ND	= Non-detect
TPH-GRO	= Total Petroleum Hydrocarbons, Gasoline Range Organics (C6-C10)
TPH-DRO	= Total Petroleum Hydrocarbons, Diesel Range Organics C10-C28
$(Date)^{H}$	= Well sampled during the Potomac River's high tide.
$(Date)^{L}$	= Well sampled during the Potomac River's low tide.
(cont.)	= continued
*	Two samples for TPH-DRO were collected from TW-07. The first sample was collected by Geosyntec for the purpose of analyzing all parameters at this location for quality control purposes (MS/MSD). A second sample was also collected by GES as part of their routine monitoring program. The results reported for TW-07 were 160 J+ micrograms per Liter (µg/L) and <45 µg/L. The difference between the two results is less than twice the reporting limit and therefore deemed valid as received.

Table 7

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO4 (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as CaCO3)	Ferrous Iron (mg/L)	Manganese (mg/L)
MW-01S	10/22/2014	4200	130	0.044 J	0.037 J	306	31.4	-
	3/16/2016	4,500	27.9	<0.040	0.017 J	367	9.3	14.5
MW-10S / RW-10S	10/22/2014	1,100	33.1	<0.040	0.037 J	461	62.8	-
	3/14/2016	1,800	193	<0.040	0.088	427	129	4.04
	5/24/2016	11	716	<0.040	<0.015	0.7 J	31.2	4.85
MW-11	10/22/2014	120	71.9	<0.040	<0.015	55	0.059	-
	2/26/2015	200	79.8	<0.040	<0.015	39	0.37	1.64
	5/12/2015	280	70.5	<0.040	<0.015	40.8	0.75	1.73
	8/6/2015	450	118	<0.040	0.049 J	356	21.9	5.67
MW-14	2/25/2015	230	51.4	0.7	<0.015	63	2.5	8.66
	5/12/2015	660	44.3	0.6	0.023 J	76.8	6.3	8.54
	8/6/2015	1,800	45.9	0.15	0.11	304	18	15.1
	3/15/2016	5,800	23.8	<0.040	0.050 J	171	22.2	6.81
MW-27	12/3/2015	2,500	112	<0.040	<0.015	424	33.4	10.9
	3/15/2016	6,100	214	<0.040	0.022 J	439	34	10.3
	5/25/2016	<3.0	452	<0.040	<0.015	44.3	4.4	6.85
MW-31 / RW-31	10/23/2014	4,300	57.2	<0.040	<0.015	416	2.6	-
	2/25/2015	5,000	69.7	<0.040	<0.015	487	9.3	9.84
	5/13/2015	5,700	70.1	<0.040	<0.015	510	15.4	10.8
	8/5/2015	5,400	85.3	<0.040	<0.015	482	10	5.52
MW-33	10/23/2014	43	253	1.9	<0.015	119	0.068	-
	2/25/2015	9.8	235	2.5	<0.015	55.6	0.030 J	1.23
	5/13/2015	7.3	254	2	<0.015	81.7	0.075	0.975
	8/5/2015	17	253	1.8	<0.015	97.7	<0.010	0.605
MW-51S	10/22/2014	7,100	36.3	0.047 J	<0.015	564	28.7	-
	2/26/2015	8,900	6.2	<0.040	0.12	518	82.4	4.49
	5/13/2015	11,000	<1.5	<0.040	0.2	676	77.3	1.74
	8/6/2015	10,000	26.1	<0.040	0.046	480	48.3	1.03
	3/15/2016	13,000	535	<0.040	0.049 J	585	69	4.64
	5/24/2016	3,800	884	<0.040	0.039 J	335	32	3.46

Table 7

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO4 (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as CaCO3)	Ferrous Iron (mg/L)	Manganese (mg/L)
MW-70	2/26/2015	<3.0	361	0.71	<0.015	35.1	0.048 J	2.62
	5/12/2015	3.4 J	357	0.7	<0.015	40.7	<0.50	6.13
	8/6/2015	<3.0	365	0.73	<0.015	29.6	0.089	1.29
MW-72S / RW-72S	10/22/2014	4,400	80.3	0.093 J	0.019 J	328	9.1	-
	2/25/2015	3,600	64.5	<0.040	<0.015	615	16.7	8.49
	5/13/2015	4,100	130	<0.040	0.097	597	24.6	8.46
	8/5/2015	2,300	207	<0.040	0.067	697	30.7	11.7
	3/14/2016	310	508	<0.040	0.054	543	71.4	16.7
	5/25/2016	20	1,500	<0.040	<0.015	<0.7	51.9	34.8
MW-72 / RW-72	10/22/2014	2,200	389	<0.040	<0.015	65.5	0.33	-
	2/25/2015	490	396	<0.040	<0.015	72.7	4.8	18.8
	5/13/2015	540	434	<0.040	0.057	101	10.8	17.5
	8/5/2015	1,400	393	<0.040	<0.015	548	14.3	13.5
	5/24/2016	<3.0	246	0.25	<0.015	24	0.073	1.72
MW-106	2/25/2015	260	1600	<0.040	0.021 J	<7.0	122	2.23
	5/12/2015	960	1160	<0.040	0.15	<0.70	50.1	1.49
	8/5/2015	2,100	1,010	<0.040	<0.015	35.1	32.7	1.38
	3/15/2016	1,600	1,250	<0.040	0.016 J	<0.70	25.1	1.67
	5/24/2016	3 J	1,310	<0.040	<0.015	<0.7	4.4	2.69
MW-109S	10/20/2014	1,000	18.8	<0.040	0.037 J	368	8	-
	2/26/2015	140	55.4	<0.040	<0.015	196	3.1	2.64
	5/12/2015	11	62.7	<0.040	<0.015	126	0.5	2.34
MW-112S	10/20/2014	4.1 J	99	0.71	<0.015	25	0.13	-
	2/26/2015	<3.0	86.7	2.3	<0.015	13.3	0.029 J	0.649
	5/12/2015	<3.0	98.9	2.5	<0.015	13.8	<0.010	0.597
MW-114	10/20/2014	16	40.5	1.5	0.16	66.7	0.066	-
	2/26/2015	<3.0	42.7	1.7	<0.015	68	0.016 J	0.102
	5/12/2015	<3.0	42.4	1.7	<0.015	68.2	0.035 J	0.0465
MW-121	12/2/2015	12,000	38.7	<0.040	0.033 J	353	66.7	28
	5/25/2016	3,300	115	<0.040	<0.015	374	81.4	22

Table 7

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfate as SO4 (mg/L)	Nitrate Nitrogen (mg/L)	Nitrite Nitrogen (mg/L)	Alkalinity, Carbonate (mg/L as CaCO3)	Ferrous Iron (mg/L)	Manganese (mg/L)
MW-122	12/2/2015	1,000	94.3	<0.040	<0.015	451	7.2	13.1
	5/25/2016	450	188	0.048 J	<0.015	300	90.8	16.3
TW-03	3/4/2015	2,500	269	<0.040	0.083	49.7	29.7	5.24
	5/13/2015	2,200	298	<0.040	0.13	39	24.6	4.32
	8/6/2015	1,800	289	<0.040	0.07	<0.70	32.3	4.61
	3/16/2016	1,600	345	<0.040	0.029 J	24.7	21.9	4.99
	5/23/2016	410	365	<0.040	0.043 J	31.2	29.1	7.88
TW-05	3/4/2015	2,800	367	<0.040	0.13	89.4	72.6	5.28
	5/13/2015	1,300	463	0.052 J	0.18	66.2	58.6	4.77
	8/6/2015	3,000	388	-	-	-	-	-
	8/13/2015	-	-	<0.040	0.091	16.1	84.5	3.55
	3/14/2016	460	410	0.12	0.042 J	114	41.5	3.05
TW-06	12/2/2015	7,000	279	<0.040	0.027 J	194	58.4	1.93
	3/15/2016	3,600	224	<0.040	0.039 J	128	53.9	1.46
	5/24/2016	3,400	402	<0.040	0.036 J	72	46	2.1
TW-07	3/4/2015	1,300	258	<0.040	0.034 J	1.6 J	14.1	4.3
	5/13/2015	800	323	<0.040	0.046 J	1.1 J	9.5	5.62
	8/6/2015	2,700	304	<0.040	0.018 J	2.7	8.7	4.51

Notes:

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, the result is an estimated value.

<# = Less than the method detection limit of #

µg/L = Micrograms per liter

mg/L = Milligrams per liter

Table 8

SOIL ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Monitoring Well / Boring	Sample Depth (ft)	Date	TPH-DRO (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenzene (µg/kg)	Total Xylenes (µg/kg)	Napthalene (µg/kg)
RW-05S	24 - 25	06/29/2015	2,600	<27	<53	170 J	610	1,700
MW-120 (RW-25S)	27 - 28	06/30/2015	220	<20	<40	<40	87 J	620
MW-121	24 - 25	07/01/2015	3,900	70 J	<43	71 J	1,400	4,800
RW-28S	26.5 - 27	07/06/2015	18	1 J	<0.8	19	3 J	53
MW-123S	24 - 25	07/07/2015	1,300	28 J	<39	780	860	3,400
SP-15	5.5	04/07/2016	1,600	-	-	-	-	-

ft	= Feet
mg/kg	= Milligrams per kilogram
µg/kg	= Micrograms per kilogram
-	= Not analyzed
ND	= Non-detect

Table 9

TOTAL PHASE EXTRACTION OPERATIONAL SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

DATE	Operation			Vapor Recovery							Groundwater Recovery		
	Period (days)	Operating Days	Operating Hours	Applied Vacuum	Vapor Flow Rate	PID Reading	Influent C1-C10 Hydrocarbon Concentration	Hydrocarbon Recovery Per Day	Hydrocarbon Recovery Per Period	Cumulative Hydrocarbon Recovery	Average Groundwater Flow Rate	Monthly Groundwater Recovery	Cummulative Groundwater Recovery
				(in. Hg)	(scfm)	(ppm-v)	(mg/m^3)	(lbs/day)	(lbs)	(lbs)	(gpm)	(gal)	(gal)
March 14, 2016	-	-	-	15.8	325	-		-	-	-	-		539
March 15, 2016	0.1	0.1	2	14.5	340	-		**25.4**	2.1	2	0.7		627
March 16, 2016	0.3	0.3	10	14.0	340	150		**25.4**	8.5	11	0.5		875
March 17, 2016	0.4	0.4	19	13.7	360	313	830	**26.9**	10.1	21	0.2	2,572	993
March 21, 2016	1.3	1.3	49	15.1	320	189		**23.9**	29.8	50	0.2		1,358
March 24, 2016	3	2.5	108	-	-	-		-	-	-	0.2		1,920
March 30, 2016	6	5.4	238	15.1	360	210		**26.9**	212	262	0.1		2,572
Q1 2016	**11**	**10**		**14.7**	**341**	**216**			**262**		**0.2**	**2,572**	
April 7, 2016	8.0	7.8	426	14.7	350	120	135	**4.2**	33	295	0.1		4,207
April 13, 2016	6.0	5.9	568	13.7	380	71	-	21.7	129	424	0.1	4,671	5,375
April 20, 2016	7.0	6.3	718	14.7	360	63	-	18.0	113	537	0.1		6,431
April 27, 2016	7.0	5.5	851	15.1	330	59	-	15.7	87	624	0.1		7,243
May 5, 2016	8.0	7.7	1035	15.7	330	105	74	**2.2**	17	640	0.1		8,530
May 18, 2016	13.0	8.9	1248	14.4	350	48	-	13.4	119	759	0.1	4,121	10,084
May 25, 2016	7.0	4.8	1362	15.3	340	-	-	**2.3**	11	770	0.2		11,364
June 8, 2016	14.0	8.8	1573	16.5	340	37	0	**0.0**	0	770	0.2	5,196	13,273
June 21, 2016	13.0	12.6	1876	15.2	360	24	-	7.0	89	859	0.2		16,560
Q2 2016	**83**	**68**		**15.0**	**349**	**66**			**597**		**0.1**	**13,988**	

Notes:

PID - photoionization detector
in. Hg - inches of mercury
scfm - standard cubic feet per minute
ppm-v - parts per million by volume
mg/m^3 - milligrams per cubic meter
lbs - pounds
gal - gallons
gpm - gallons per minute

Bold hydrocarbon recovery per day values indicate the result is from analytical results (sum of C1-C4 and >C4-C10 hydrocarbons). Other a PID reading is used.

Estimate of TPE vapor >C4-C10 hydrocarbon recovery using analytical results in units of mg/m^3:

Pounds = Vapor Flow Rate (scfm) x Influent >C4-C10 Hydrocarbons (mg/m^3) x Period (days) x c

c = conversion factors, 1440 min/day, 0.02832 m^3/ft^3, 2.2046E-6 lb/mg

Estimate of hydrocarbon recovery per day using PID reading:

Pounds = VOC concentration (ppm) x MW (g/mol) / MV (mol/L)] x vapor flow rate (scfm) x c

MW = molecular weight, assumed at 200 grams/mol for diesel

MV = molar volume, 22.4 at standard temperature and pressure (25 deg. Celsius, 1 atm)

c = conversion factors, 1440 min/day, 2.2E-6 lb/mg, 1 m3 /35.3 ft3

Estimate of recovery using analytical results in units of mg/L:

Pounds = Total Monthly Flow (gal) x Concentration (mg/L) x c

c = conversion factors, 3.7854 L/gal, 2.2046E-6 lb/mg

Table 10

PUMP AND TREAT OPERATIONAL SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

DATE	Operation			Groundwater Recovery			Recovery Wells									
	Period (days)	Operating Days	Operating Hours	Average Groundwater Flow Rate	Monthly Groundwater Recovery	Cumulative Groundwater Recovery	RW-05		RW-25		RW-31		RW-51		RW-72	
				(gpm)	(gal)	(gal)	Cumulative Pump Cycles	Cycles per Minute	Cumulative Pump Cycles	Cycles per Minute	Cumulative Pump Cycles	Cycles per Minute	Cumulative Pump Cycles	Cycles per Minute	Cumulative Pump Cycles	Cycles per Minute
March 14, 2016	-	-	-	-	43,907	536	692	-	6,213	-	3,309	-	5,987	-	4,157	-
March 15, 2016	0.2	0.2	6	0.5		729	1,120	1.8	10,090	16	9,063	24	10,880	20	7,307	13
March 16, 2016	0.4	0.4	15	4.6		3,220	1,299	0.3	14,530	8	11,994	5	15,925	9	8,755	3
March 17, 2016	0.3	0.3	22	3.3		4,595	1,436	0.3	21,226	16	16,785	11	23,056	17	9,825	3
March 21, 2016	1.3	1.3	54	1.1		6,677	1,505	0.0	31,176	5	18,124	1	29,238	3	16,073	3
March 24, 2016	3.0	2.3	108	1.8		12,539	1,625	0.0	-	-	-	-	-	-	-	-
March 30, 2016	6.0	5.2	232	4.2		43,907	11,823	1.4	212,345	17	151,623	12	205,395	16	39,882	2
Q1 2016	**11**	**10**		**3.2**	**43,907**		**11,823**	**0.9**	**212,345**	**15**	**151,623**	**11**	**205,395**	**15**	**39,882**	**3**
April 7, 2016	8	7.8	418	3.2	117,175	81,177	17,696	0.5	430,776	20	244,598	8	431,044	20	51,551	1.0
April 13, 2016	6	5.5	551	3.6		109,780	26,045	1.0	589,447	20	347,559	13	591,420	20	62,240	1.3
April 20, 2016	7	6.3	701	3.1		137,844	34,325	0.9	773,123	20	355,229	1	775,119	20	69,772	0.8
April 27, 2016	7	5.1	824	3.1		161,082	37,883	0.5	918,471	20	407,031	7	921,715	20	80,116	1.4
May 5, 2016	8	7.5	1,005	3.0	87,572	193,885	39,826	0.2	1,138,059	20	471,149	6	1,136,789	20	90,455	1.0
May 10, 2016	5	1.1	1,031	3.1		198,662	40,882	0.7	1,168,873	20	500,383	19	1,167,296	20	91,887	0.9
May 18, 2016	8	7.2	1,204	2.7		226,298	60,355	1.9	1,387,605	21	525,551	2	1,381,275	21	97,943	0.6
May 25, 2016	7	6.5	1,360	2.4		248,654	-	-	-	-	-	-	-	-	-	-
June 2, 2016	8	5.5	1,493	2.1	61,464	265,336	90,911	1.8	1,760,840	22	777,780	15	1,743,745	21	112,951	0.9
June 8, 2016	6	3.3	1,571	2.1		275,335	97,569	1.4	1,861,909	22	844,068	14	1,841,688	21	117,805	1.0
June 14, 2016	6.0	6.0	1,714	1.9		291,227	110,555	1.5	2,069,338	24	948,955	12	2,035,824	23	127,548	1.1
June 21, 2016	7.0	6.8	1,877	1.9		310,118	143,720	3.4	2,299,257	24	1,075,182	13	2,259,050	23	137,772	1.0
Q2 2016	**83**	**69**		**2.7**	**266,211**		**131,897**	**1.3**	**2,086,912**	**21**	**923,559**	**9**	**2,053,655**	**21**	**97,890**	**1**

Notes:

gal - gallons

gpm - gallons per minute

Pump Cycles - Cycle counters at each pneumatic well pump are used as relative measurements to estimate proportion of total flow and evaluate changes in flow rates over time.

Table 11

BIOSPARGE OPERATIONAL SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

DATE	Operation		Biosparge Injection Points														
	Period (days)	Operating Days	SP-01	SP-02	SP-03	SP-04	SP-05	SP-06	SP-07	SP-08	SP-09	SP-10	SP-11	SP-12	SP-13	SP-14	SP-15
			Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)	Flow (scfm)
March 15, 2016	0.0	0.0	0.8	0.7	0.6	0.8	0.8	0.6	0.8	0.7							
March 16, 2016	0.4	0.4	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7							
March 17, 2016	0.9	0.9	0.7	0.75	0.7	0.7	0.7	0.7	0.75	0.75							
March 21, 2016	1.3	1.3	1.0	1.0	1.0	1.0	1.2	1.1	1.0	1.0							
March 30, 2016	9.0	8.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8							
Q1 2016	**12**	**11**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**							
April-16	28	27.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8							
May-16	28	23.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
June-16	27	22.7	0.8	0.75	0.8	0.8	0.8	0.75	0.75	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Q2 2016	**83**	**73**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**

Notes:

scfm - standard cubic feet per minute

Table 12

HYDROCARBON RECOVERY SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

DATE	TPE			P&T			LNAPL		Cumulative Hydrocarbon Recovery					
	Monthly Groundwater Recovery	Dissolved-Phase TPH-DRO Concentration	Monthly TPH-DRO Recovery	Monthly Groundwater Recovery	Dissolved-Phase TPH-DRO Concentration	Monthly TPH-DRO Recovery	LNAPL Thickness in Drum[1]	Monthly Recovered LNAPL	Dissolved-Phase		Liquid-Phase	Vapor-Phase[2]	Total	
									TPE	P&T				
	(gal)	(mg/L)	(lbs)	(gal)	(mg/L)	(lbs)	(ft)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(lbs)	(gal)
March 2016	2,572	250	5.4	43,907	56	20.5	0.39	56.8	5	21	57	262	345	47
Q1 2016			**5.4**			**20.5**		**56.8**						
April 2016	4,671	10	0.4	117,175	2.4	2.3	0.41	2.9	6	23	60	624	712	97
May 2016	4,121	69	2.4	87,572	2.8	2.0	0.43	*21.2*	8	25	81	770	884	121
June 2016	5,196	18	0.8	61,464	0.7	0.3	0.43	0.0	9	25	81	859	974	133
Q2 2016			**3.5**			**4.7**		**24.1**						

Notes:

TPE - total phase extraction
P&T - pump & treat
TPH-DRO - total petroleum hydrocarbons - diesel range organics
LNAPL - light non-aqueous phase liquid
gal - gallon
mg/L - milligrams per liter
lbs - pounds
[1] - LNAPL drum includes LNAPL bailed previously during well gauge and bail events
[2] - Vapor-Phase recovery values are calculated withing the Total Phase Extraction Operational Summary Table
I - May LNAPL recovery includes LNAPL removed from the oil/water separator during a cleaning event.

Estimate of dissolved-phase recovery using analytical results in units of mg/L:

Pounds = Total Monthly Flow (gal) x Concentration (mg/L) x c
c = conversion factors, 3.7854 L/gal, 2.2046E-6 lb/mg

Estimate of recovered LNAPL in drum using product thickness in units of ft:

Pounds = LNAPL Thickness (ft) x Drum Radius^2 (ft^2) x π x LNAPL Density (lb/ft^3)
drum diameter = 1.875 feet
Density of LNAPL (#2 fuel oil) is 54.81 lb/ft^3 based on an average from LNAPL samples from MW-05 and MW-25

Conversion of recovered hydrocarbons from pounds to gallons:

Gallons = Total Hydrocarbons (lbs) / Denisty of LNAPL (54.8 lb/ft^3) x 7.48 gal/ft^3)

ATTACHMENT A

WASTE DOCUMENTATION

24 Hour Emergency Service
(410) 636-3700

TRIUMVIRATE ENVIRONMENTAL

☑ Baltimore, MD Office 410-636-3700 ☐ Ashland, VA Office 540-288-1176

JOB NO.: 329476

SHEET: 1
OF: 1

DAY: Thursday
DATE: 5.19.16
ARRIVAL TIME: 8am

JOB CONTACT: NRG Ron Ulman
JOB PHONE: 301.646 9963
JOB DESCRIPTION: pump drums, clean lines, pump sump
SUPERVISOR: Andy Leslie
PROJECT MGR.: Craig Chilenes
CHANGE ORDER: YES NO

LABOR: S = SUPERVISOR, F = FOREMAN, E = EQUIPMENT OPERATOR, T = TECHNICIAN

Position	Employee Name	Unit #	Pre-Trip / Load	Travel To Job	Onsite	Travel From Job	Lunch / Break	Office / Compliance	Total Time
S	A. Leslie	7009	5	2.0	5.5	2.0		.5	
T	M. Morgan	1025	5	2.0	5.5	2.0		.5	

EQUIPMENT / PURCHASES

Type	Unit #	Start Time	Stop Time	Total Hours	Rental Co. / Supplier	Purchase Order No.
Vac TK	7009	530			pumped 12 Drums	
Utility TK	1025	530				
Press Wash	643	530				

WASTE INFORMATION

Destination 1500 Carbon Ave Balt Md

	Amount	Shipping Document #	Taken to Destination	Left on Site
Liquid Bulk	1238 GLS.	B01 329476	☑	☐
Sludge Bulk	GLS.		☐	☐
Bags of Debris / PPE	Each		☐	☐
Liquid	Drums		☐	☐
Solid	Drums		☐	☐
	Pounds		☐	☐
	TNS./YDS.		☐	☐
Other			☐	☐

TRIUMVIRATE

PRINT NAME: Andy Leslie
SIGNATURE: Andrew Leslie
DATE: 5.19.16

CUSTOMER

PRINT NAME: Ronald Ulman
SIGNATURE:
DATE: 5.19.16

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4017241

TRIUMVIRATE ENVIRONMENTAL BILL OF LADING

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

BOL Document Number: BOL329476

TRANSPORTER:	US EPA ID Number:	Phone:
1 Triumvirate Environmental, Inc.	MAC300016672	800-966-9282
2		

GENERATOR:	US EPA ID Number:	Phone:
GenOn - Po River 1400 North Royal Street Alexandria, VA 22314	VAD000731588	703-838-3701

FACILITY:	US EPA ID Number:	Phone:
Triumvirate Environmental - Baltimore, LLC 1500 Carbon Avenue Baltimore, MD 21226	MDD093002384	(410) 636-3700

Received: _____ (Print Name) _____ (Signature) _____ (Date)

HM	Description of Articles or Proper Shipping Name	Containers No.	Size	Type	Weight	Unit Wt/Vol.
	Non-RCRA, Non-DOT Regulated Materials - Liquids (Petroleum Impacted Water) 13920-20020A	001 x	Tanker	TT	1238	G
	Non-RCRA, Non-DOT Regulated Materials - Liquids (Oil, Water) 13920-21050A	001 x	Tanker	TT		G
	Non-RCRA, Non-DOT Regulated Materials - Liquids (Oil, Water, Sludge) 13920-21050C	001 x	Tanker	TT		G
		x				

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

	Print Name	Signature	Date
GENERATOR: GenOn - Po River	x Ron Ullman	x	5.19.16
TRANSPORTER: 1 Triumvirate Environmental, Inc.	Andy Leslie	Andy Leslie	5.19.16
2			

ER #: (800) 966-9282
ERIP: Triumvirate Environmental

Monitored at all times the Hazardous Materials is in transportation including storage to transportation. (172.604)

VEOLIA
ENVIRONMENTAL SERVICES

In Mail 7/12/2016
Final Receipt.

SHIPPING DOCUMENT	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Shipping Document Tracking Number
	VAD000731588	1	(877) 818-0087	ZZ 00409987

5. Generator's Name and Mailing Address
NRG POTOMAC RIVER GENERATING
1400 N ROYAL ST
ALEXANDRIA, VA 22314
Generator's Phone: 301 646-9963

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: VEOLIA ES TECHNICAL SOLUTIONS — U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name: S J TRANSPORTATION CO INC. — U.S. EPA ID Number: NJD071629976

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
4301 INFIRMARY ROAD
WEST CARROLLTON, OH 45449
Facility's Phone: 937 859-6101
U.S. EPA ID Number: OHD093945293

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Codes
	1. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT., (PETROLEUM IMPACTED SOIL)	11	DM	7650	P	NONE
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
(36115)

15. GENERATOR S/OFFEROR S CERTIFICATION: 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.

Generator/Offeror Printed/Typed Name: Ronald Ulman — Signature: — Month 06 Day 14 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Shipment
Transporter 1 Printed/Typed Name: William Roberts — Signature: — Month 06 Day 14 Year 16
Transporter 2 Printed/Typed Name: BRUCE E. CORNWALL — Signature: — Month 6 Day 17 Year 16

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Shipping Document Tracking Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a.
Printed/Typed Name: Dr. Harry Blankenship — Signature: — Month 6 Day 20 Year 16

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – APRIL 21, 2016 MONITORING EVENT

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: April 27, 2016

Project: NRG PRGS

Submittal Date: 04/22/2016
Group Number: 1653543
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-06 Grab Groundwater	8346971

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: TW-06 Grab Groundwater
NRG PRGS

LL Sample # WW 8346971
LL Group # 1653543
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 13:00 by JP

Submitted: 04/22/2016 17:00
Reported: 04/27/2016 12:38

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGT6

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	32,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161140004A	04/26/2016 20:09	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161140004A	04/25/2016 09:35	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/27/2016 12:38

Group Number: 1653543

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

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

Method Blank

Analysis Name	Result ug/l	MDL ug/l
Batch number: 161140004A	Sample number(s): 8346971	
DRO C10-C28	N.D.	45

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 161140004A	Sample number(s): 8346971								
DRO C10-C28	2660	2151.36			81		69-115		

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 161140004A	Sample number(s): 8346971 UNSPK: P339449									
DRO C10-C28	324.35	2720	2528.96	2750	2232.17	81	69	69-115	12	20

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 161140004A

	Orthoterphenyl
8346971	97
Blank	116
LCS	110
MS	111
MSD	100

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/27/2016 12:38

Group Number: 1653543

Surrogate Quality Control

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

Limits: 42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1653543 Sample # 8346971-

Client: Groundwater & Env. Services, Inc.

Project Name/#: NRG PRGS | Site ID #: NRG PRGS

Project Manager: Ashley Bell | P.O. #: 0402919

Sampler: Jeff Plummer | PWSID #:

Phone #: 800-220-3606 x 3704 | Quote #: 212032A

State where sample(s) were collected: 1400 North Royal St., Alexandria, VA

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Potable Water	Ground Water	Surface Water	NPDES	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	BTEX, Naphthalene (SW-846 8260B) (H)	Alkalinity (SM 2320B) (None)	Nitrate NO3-1 (EPA 353.2) (S)	Manganese Mn2+ (EPA 6010B) (N)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) (H)	Sulfate SO42- (EPA 300.0) (None)	Methane (RSKSOP-175 modified) (H)	Remarks
TW-06	4-21-16	1300	X				X					2	X								

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☒
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 3-day TAT

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	4-22-16	0800	Denise Woodring	4-22-16	0800
Denise Woodring	4-22-16	1200	Bill DeJong	4-22-16	1200
Bill DeJong	4-22-16	1700			

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 4.3 °C

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7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 143995

Group Number(s): 1653543

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	04/22/2016 17:00
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:39 on 04/22/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	4.3	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T : 717-656-2300
F : 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: May 10, 2016

Project: NRG PRGS

Submittal Date: 04/22/2016
Group Number: 1653544
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-01S Grab Groundwater	8346972
MW-08S Grab Groundwater	8346973
RW-25 Grab Groundwater	8346974
MW-27 Grab Groundwater	8346975
RW-31 Grab Groundwater	8346976
MW-51S Grab Groundwater	8346977
RW-51 Grab Groundwater	8346978
RW-72 Grab Groundwater	8346979
RW-1 Grab Groundwater	8346980

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: MW-01S Grab Groundwater
NRG PRGS

LL Sample # WW 8346972
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:10 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG1S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	56,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 15:38	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: MW-08S Grab Groundwater
NRG PRGS

LL Sample # WW 8346973
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:20 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG8S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	11,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 16:02	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-25 Grab Groundwater
NRG PRGS

LL Sample # WW 8346974
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 13:30 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRR25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	5,800	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 16:26	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: MW-27 Grab Groundwater
NRG PRGS

LL Sample # WW 8346975
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 15:10 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	8,400	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 16:49	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-31 Grab Groundwater
NRG PRGS

LL Sample # WW 8346976
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:00 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRR31

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	440	45	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 17:13	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

Sample Description: MW-51S Grab Groundwater
NRG PRGS

LL Sample # WW 8346977
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:30 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR51S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	27,000	45	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 17:36	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-51 Grab Groundwater
NRG PRGS

LL Sample # WW 8346978
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 13:40 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRR51

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,900	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 18:00	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-72 Grab Groundwater
NRG PRGS

LL Sample # WW 8346979
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 13:50 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRR72

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	350	45	1

Target analytes were detected in the method blank associated with the samples as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 18:23	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-1 Grab Groundwater
NRG PRGS

LL Sample # WW 8346980
LL Group # 1653544
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 15:00 by JP

Submitted: 04/22/2016 17:00
Reported: 05/10/2016 11:05

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGR1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,600	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 18:46	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/10/2016 11:05

Group Number: 1653544

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

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

Method Blank

Analysis Name	Result ug/l		MDL ug/l
Batch number: 161170009A	Sample number(s): 8346972-8346980		
DRO C10-C28	47	J	45

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 161170009A	Sample number(s): 8346972-8346980								
DRO C10-C28	2670	1972.93	2640	1844.47	74	70	69-115	7	20

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 161170009A

	Orthoterphenyl
8346972	80
8346973	91
8346974	85
8346975	54
8346976	61
8346977	177*
8346978	101
8346979	86
8346980	54
Blank	106
LCS	93
LCSD	106
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

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Environmental Analysis Request/Chain of Custody

Acct. # 8390 Group # 1653544 Sample # 8316972-80

Client: Groundwater & Env. Services, Inc.
Project Name/#: NRG PRGS | Site ID #: NRG PRGS
Project Manager: Ashley Bell | P.O. #: 0402919
Sampler: Jeff Plummer | PWSID #:
Phone #: 800-220-3606 x 3704 | Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA

For Lab Use Only
SF #:
SCR #:

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Potable	Ground Water	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	BTEX, Naphthalene (SW-846 8260B) (H)	Alkalinity (SM 2320B) (None)	Nitrate NO3-1 (EPA 353.2) (S)	Manganese Mn2+ (EPA 6010B) (N)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) (H)	Sulfate SO42- (EPA 300.0) (None)	Methane (RSKSOP-175 modified) (H)	Remarks
MW-01S	4-21-16	1410	X					X				2	X								
MW-08S	↓	1420	↓					↓				↓	↓								
RW-25	↓	1330	↓					↓				↓	↓								
MW-27	↓	1510	↓					↓				↓	↓								
RW-31	↓	1400	↓					↓				↓	↓								
MW-51S	↓	1430	↓					↓				↓	↓								
RW-51	↓	1340	↓					↓				↓	↓								
RW-72	↓	1350	↓					↓				↓	↓								
RW-1	4-21-16	1500	X					X				2	X								

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)
Date results are needed:
Rush results requested by (please check): E-Mail ☑ Phone ☐
E-mail Address: mdlabs@gesonline.com & ges@equisonline.com
Phone:

Data Package Options (please check if required)
Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	4-22-16	0800	Denise Wooding	4-22-16	0800
Denise Wooding	4-22-16	1200	Bob De Long	4-22-16	12:00
Bob De Long	4-22-16	17:00			
				4/22/16	1700

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.3 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 143995

Group Number(s): 1653544

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	04/22/2016 17:00
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:39 on 04/22/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	4.3	DT	Wet	Y	Bagged	N

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Lancaster, PA 17605-2425

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F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: April 30, 2016

Project: NRG PRGS

Submittal Date: 04/22/2016
Group Number: 1653545
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
RW-28S Grab Groundwater	8346981
RW-123S Grab Groundwater	8346982
RW-05S Grab Groundwater	8346983
RW-116S Grab Groundwater	8346984
RW-119S Grab Groundwater	8346985
RW-118S Grab Groundwater	8346986
MW-106 Grab Groundwater	8346987

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: RW-28S Grab Groundwater
NRG PRGS

LL Sample # WW 8346981
LL Group # 1653545
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 13:42 by JB

Submitted: 04/22/2016 17:00
Reported: 04/30/2016 16:41

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW28S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,300	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 19:56	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-123S Grab Groundwater
NRG PRGS

LL Sample # WW 8346982
LL Group # 1653545
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 13:52 by JB

Submitted: 04/22/2016 17:00
Reported: 04/30/2016 16:41

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

R123S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	150,000	45	10

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/28/2016 09:38	Christine E Dolman	10
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-05S Grab Groundwater
NRG PRGS

LL Sample # WW 8346983
LL Group # 1653545
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 13:55 by JB

Submitted: 04/22/2016 17:00
Reported: 04/30/2016 16:41

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW05S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	19,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 20:43	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-116S Grab Groundwater
NRG PRGS

LL Sample # WW 8346984
LL Group # 1653545
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:03 by JB

Submitted: 04/22/2016 17:00
Reported: 04/30/2016 16:41

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

R116S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 21:06	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-119S Grab Groundwater
NRG PRGS

LL Sample # WW 8346985
LL Group # 1653545
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:27 by JB

Submitted: 04/22/2016 17:00
Reported: 04/30/2016 16:41

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

R119S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,300	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 21:29	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: RW-118S Grab Groundwater
NRG PRGS

LL Sample # WW 8346986
LL Group # 1653545
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:35 by JB

Submitted: 04/22/2016 17:00
Reported: 04/30/2016 16:41

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

R118S

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,100	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 21:52	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

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Analysis Report

Sample Description: MW-106 Grab Groundwater
NRG PRGS

LL Sample # WW 8346987
LL Group # 1653545
Account # 08390

Project Name: NRG PRGS

Collected: 04/21/2016 14:57 by JB

Submitted: 04/22/2016 17:00
Reported: 04/30/2016 16:41

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NG106

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161170009A	04/27/2016 22:15	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161170009A	04/27/2016 08:05	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/30/2016 16:41

Group Number: 1653545

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

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

Method Blank

Analysis Name	Result ug/l		MDL ug/l
Batch number: 161170009A	Sample number(s): 8346981-8346987		
DRO C10-C28	47	J	45

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 161170009A	Sample number(s): 8346981-8346987								
DRO C10-C28	2670	1972.93	2640	1844.47	74	70	69-115	7	20

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 161170009A

	Orthoterphenyl
8346981	44
8346982	403*
8346983	110
8346984	88
8346985	97
8346986	96
8346987	60
Blank	106
LCS	93
LCSD	106
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1653545 Sample # 8346981-87

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Ashley Bell	P.O. #: 0402919
Sampler: J. Brendan Huffey	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

For Lab Use Only
SF #:
SCR #:

Preservation Codes: H = HCl; N = HNO_3; S = H_2SO_4; O = Other; T = Thiosulfate; B = NaOH; P = H_3PO_4

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Potable Water	Ground Water	Surface Water	NPDES	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B)	BTEX, Naphthalene (SW-846 8260B)	Alkalinity (SM 2320B)	Nitrate NO3-1 (EPA 353.2)	Manganese Mn2+ (EPA 6010B)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO42- (EPA 300.0)	Methane (RSKSOP-175 modified)	Remarks
Preservation Codes													H	H	None	S	N	H	None	H	
BW-28S	4-21-16	13:42	X				X					2	X								
BW-123S	↓	13:52	↓				↓					↓	↓								
BW-05S	↓	13:55	↓				↓					↓	↓								
BW-116S	↓	14:03	↓				↓					↓	↓								
BW-119S	↓	14:27	↓				↓					↓	↓								
BW-118S	↓	14:35	↓				↓					↓	↓								
MW-10C	4-21-16	14:57	X				X					2	X								

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4-22-16	0630	Denise Woodring	4-22-16	0800
Denise Woodring	4-22-16	1200	Bill Dougherty	4-22-16	1200
Bill Dougherty	4-22-16	1700			
			[signature]	4/22/16	1200

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 4.3 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 143995

Group Number(s): 1653545

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	04/22/2016 17:00
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:39 on 04/22/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	4.3	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

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ATTACHMENT C

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – MAY 23-25, 2016 MONITORING EVENT

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: May 31, 2016

Project: NRG PRGS

Submittal Date: 05/24/2016
Group Number: 1664846
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-03 Grab Groundwater	8395410

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: TW-03 Grab Groundwater
NRG PRGS

LL Sample # WW 8395410
LL Group # 1664846
Account # 08390

Project Name: NRG PRGS

Collected: 05/23/2016 10:25 by LK

Submitted: 05/24/2016 17:25
Reported: 05/31/2016 14:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGT3

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	410	3.0	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	7.88	0.0012	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	365	15.0	50
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	0.043 J	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	31.2	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	29.1	1.0	100

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161470004A	05/26/2016 15:54	Johanna C Kennedy	1
07058	Manganese	SW-846 6010B	1	161461848002	05/27/2016 01:57	Matthew R Machtinger	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161461848002	05/26/2016 07:45	Lisa J Cooke	1
00228	Sulfate	EPA 300.0	1	16146667131A	05/25/2016 16:09	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	16150106102B	05/29/2016 17:30	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16145105105A	05/24/2016 18:52	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16146002102A	05/25/2016 17:09	Nathan T Morgan	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	100

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/31/2016 14:34

Group Number: 1664846

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: 161470004A	Sample number(s): 8395410	
Methane	N.D.	3.0
	mg/l	mg/l
Batch number: 161461848002	Sample number(s): 8395410	
Manganese	N.D.	0.0012
Batch number: 16145105105A	Sample number(s): 8395410	
Nitrite Nitrogen	N.D.	0.015
Batch number: 16146667131A	Sample number(s): 8395410	
Sulfate	N.D.	0.30
Batch number: 16150106102B	Sample number(s): 8395410	
Nitrate Nitrogen	N.D.	0.040
Batch number: 16149834401A	Sample number(s): 8395410	
Ferrous Iron	N.D.	0.010
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 16146002102A	Sample number(s): 8395410	
Total Alkalinity to pH 4.5	0.83 J	0.70

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161470004A	Sample number(s): 8395410								
Methane	59.8	59.16	59.8	60.88	99	102	85-115	3	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 161461848002	Sample number(s): 8395410								
Manganese	0.500	0.516			103		80-120		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16145105105A	Sample number(s): 8395410								
Nitrite Nitrogen	0.700	0.702			100		90-110		
Batch number: 16146667131A	Sample number(s): 8395410								
Sulfate	7.50	7.44	7.50	7.29	99	97	90-110	2	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/31/2016 14:34

Group Number: 1664846

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16150106102B	Sample number(s): 8395410								
Nitrate Nitrogen	2.50	2.51			100		90-110		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16149834401A	Sample number(s): 8395410								
Ferrous Iron	0.400	0.399			100		93-105		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16146002102A	Sample number(s): 8395410								
Total Alkalinity to pH 4.5	188	176.64			94		84-110		

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 161470004A	Sample number(s): 8395410 UNSPK: P394760									
Methane	993.55	59.8	819.92			-289 (2)		73-125		
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 161461848002	Sample number(s): 8395410 UNSPK: P395558									
Manganese	0.909	0.500	1.42	0.500	1.39	102	96	75-125	2	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16145105105A	Sample number(s): 8395410 UNSPK: P395140									
Nitrite Nitrogen	N.D.	0.200	0.199			99		90-110		
Batch number: 16146667131A	Sample number(s): 8395410 UNSPK: P395469									
Sulfate	73.61	50	121.44			96		90-110		
Batch number: 16150106102B	Sample number(s): 8395410 UNSPK: P391110									
Nitrate Nitrogen	1.55	1.00	2.58			103		90-110		
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16149834401A	Sample number(s): 8395410 UNSPK: P400088									
Ferrous Iron	4.35	8.00	11.81	8.00	11.95	93	95	93-105	1	6
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16146002102A	Sample number(s): 8395410 UNSPK: P394935									
Total Alkalinity to pH 4.5	10.88	188	181.75	188	183.47	91	92	84-110	1	5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/31/2016 14:34

Group Number: 1664846

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Batch number: 161461848002	Sample number(s): 8395410 BKG: P395558			
Manganese	0.909	0.908	0	20
	mg/l	mg/l		
Batch number: 16145105105A	Sample number(s): 8395410 BKG: P395140			
Nitrite Nitrogen	N.D.	N.D.	0 (1)	20
Batch number: 16146667131A	Sample number(s): 8395410 BKG: P395469			
Sulfate	73.61	73.16	1	15
Batch number: 16150106102B	Sample number(s): 8395410 BKG: P391110			
Nitrate Nitrogen	1.55	1.57	1	2
	mg/l	mg/l		
Batch number: 16149834401A	Sample number(s): 8395410 BKG: P400088			
Ferrous Iron	4.35	4.39	1 (1)	5
	mg/l as CaCO3	mg/l as CaCO3		
Batch number: 16146002102A	Sample number(s): 8395410 BKG: P394935			
Total Alkalinity to pH 4.5	10.88	12.03	10*	5

Surrogate Quality Control

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

Analysis Name: Methane
Batch number: 161470004A

	Propene
8395410	58
Blank	99
LCS	99
LCSD	99
MS	60
Limits:	44-123

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1664846 Sample # 83954110

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Ashley Bell	P.O. #: 0402919
Sampler: Lindsay Keeney	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

Matrix: Sediment ☐ Soil ☐ Water ☒ (Ground ☐ Surface ☐ Potable ☐ NPDES ☐) Other: ☐

Analyses Requested — Preservation Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Water	Other	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	BTEX, Naphthalene (SW-846 8260B) (H)	Alkalinity (SM 2320B) (None)	Nitrate NO3-1 (EPA 353.2) (S)	Manganese Mn2+ (EPA 6010B) (N)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) (H)	Sulfate SO42- (EPA 300.0) (None)	Methane (RSKSOP-175 modified) (H)	Remarks
TW-03	5/23/16	1025	X			X		9			X	X	X	X	X	X	

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5/24/16	0900	Donna Marple	5/24/16	0900
Donna Marple	5/24/16	12:00	[signature]	5/24/16	1200
[signature]	5/24/16	17:00			
			[signature]	5/24/16	1725

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 147797

Group Number(s): 1661846

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/24/2016 17:25
Number of Packages:	1	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:34 on 05/24/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.6	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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F 717-656-2681
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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: June 07, 2016

Project: NRG PRGS

Submittal Date: 05/25/2016
Group Number: 1665387
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TW-14 Grab Groundwater	8397613

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: TW-14 Grab Groundwater
NRG PRGS

LL Sample # WW 8397613
LL Group # 1665387
Account # 08390

Project Name: NRG PRGS

Collected: 05/23/2016 15:25 by JP

Submitted: 05/25/2016 16:55
Reported: 06/07/2016 22:24

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

14TW-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 11:49	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/07/2016 22:24

Group Number: 1665387

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

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

Method Blank

Analysis Name	Result ug/l	MDL ug/l
Batch number: 161480006A	Sample number(s): 8397613	
DRO C10-C28	N.D.	45

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 161480006A	Sample number(s): 8397613								
DRO C10-C28	2640	2809.72	2680	2249.16	106	84	69-115	22*	20

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 161480006A

	Orthoterphenyl
8397613	99
Blank	96
LCS	98
LCSD	93
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1665387 Sample # 8397613

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Ashley Bell	P.O. #: 0402919
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Sediment	Ground	Surface	Soil	Potable	NPDES	Water	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	BTEX, Naphthalene (SW-846 8260B) (H)	Alkalinity (SM 2320B) (None)	Nitrate NO3 -1 (EPA 353.2) (S)	Manganese Mn2+ (EPA 6010B) (N)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) (H)	Sulfate SO42- (EPA 300.0) (None)	Methane (RSKSOP-175 modified) (H)	[redacted]	Remarks
TW14	5-23-16	1525	X			X					X		5	X	[redacted]							[redacted]	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-25-16	0800	Denise Woodring	5-25-16	0800
Denise Woodring	5-25-16	12:10	[illegible]	5/25/16	1:10
[illegible]	5/25/16	16:55			
			[illegible]	5/25/16	1655

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.2 °C

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7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 147974

Group Number(s): 1665387

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/25/2016 16:55
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 19:07 on 05/25/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.2	DT	Wet	Y	Bagged	N

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www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: June 16, 2016

Project: NRG PRGS

Submittal Date: 05/25/2016
Group Number: 1665388
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
RW-123S Grab Groundwater	8397614
RW-119S Grab Groundwater	8397615
RW-05S Grab Groundwater	8397616
RW-116S Grab Groundwater	8397617
RW-10S Grab Groundwater	8397618
RW-118S Grab Groundwater	8397619
MW-28S Grab Groundwater	8397620
MW-106 Grab Groundwater	8397621

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: RW-123S Grab Groundwater
NRG PRGS

LL Sample # WW 8397614
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 08:55 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	100,000	45	5

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	06/01/2016 08:19	Christine E Dolman	5
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-119S Grab Groundwater
NRG PRGS

LL Sample # WW 8397615
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 09:10 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,100	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 12:36	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-05S Grab Groundwater
NRG PRGS

LL Sample # WW 8397616
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 09:30 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	59,000	45	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 13:00	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-116S Grab Groundwater
NRG PRGS

LL Sample # WW 8397617
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 09:45 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	230,000	45	25

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	06/01/2016 08:42	Christine E Dolman	25
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-10S Grab Groundwater
NRG PRGS

LL Sample # WW 8397618
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 10:00 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW-05

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	11	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	270,000	45	50
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	4.85	0.0012	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	716	15.0	50
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	31.2	2.0	200

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161470011A	05/26/2016 15:49	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	06/01/2016 09:05	Christine E Dolman	50
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161471848003	05/27/2016 06:35	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161471848003	05/26/2016 20:10	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	16148667601A	05/27/2016 22:57	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	16150106103B	05/29/2016 18:22	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16146105102A	05/25/2016 22:18	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16147003102A	05/26/2016 16:10	Nathan T Morgan	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	200

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Analysis Report

Sample Description: RW-118S Grab Groundwater
NRG PRGS

LL Sample # WW 8397619
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 11:35 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW-06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,600	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 14:11	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: MW-28S Grab Groundwater
NRG PRGS

LL Sample # WW 8397620
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 12:15 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MW-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,300	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 14:34	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

Sample Description: MW-106 Grab Groundwater
NRG PRGS

LL Sample # WW 8397621
LL Group # 1665388
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 13:00 by BH

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MW-02

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	1,100	45	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.69	0.0012	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	1,310	60.0	200
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	4.4	0.20	20

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161470011A	05/26/2016 16:06	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 15:00	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161471848003	05/27/2016 06:45	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161471848003	05/26/2016 20:10	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	16148667601B	05/27/2016 23:14	Drew M Gerhart	200
00220	Nitrate Nitrogen	EPA 353.2	1	16150106103B	05/29/2016 18:24	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16146105102A	05/25/2016 22:19	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16147003102A	05/26/2016 17:31	Nathan T Morgan	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	20

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665388

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: 161470011A	Sample number(s): 8397618,8397621	
Methane	N.D.	3.0
Batch number: 161480006A	Sample number(s): 8397614-8397621	
DRO C10-C28	N.D.	45
	mg/l	mg/l
Batch number: 161471848003	Sample number(s): 8397618,8397621	
Manganese	N.D.	0.0012
Batch number: 16146105102A	Sample number(s): 8397618,8397621	
Nitrite Nitrogen	N.D.	0.015
Batch number: 16148667601A	Sample number(s): 8397618	
Sulfate	N.D.	0.30
Batch number: 16148667601B	Sample number(s): 8397621	
Sulfate	N.D.	0.30
Batch number: 16150106103B	Sample number(s): 8397618,8397621	
Nitrate Nitrogen	N.D.	0.040
Batch number: 16149834401A	Sample number(s): 8397618,8397621	
Ferrous Iron	N.D.	0.010
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 16147003102A	Sample number(s): 8397618,8397621	
Total Alkalinity to pH 4.5	0.88 J	0.70

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161470011A	Sample number(s): 8397618,8397621								
Methane	59.8	66.73	59.8	64.91	112	109	85-115	3	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161480006A	Sample number(s): 8397614-8397621								
DRO C10-C28	2640	2809.72	2680	2249.16	106	84	69-115	22*	20
	mg/l	mg/l	mg/l	mg/l					

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665388

LCS/LCSD (continued)

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	mg/l	mg/l	mg/l	mg/l					
Batch number: 161471848003	Sample number(s): 8397618,8397621								
Manganese	0.500	0.513			103		80-120		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16146105102A	Sample number(s): 8397618,8397621								
Nitrite Nitrogen	0.700	0.716			102		90-110		
Batch number: 16148667601A	Sample number(s): 8397618								
Sulfate	7.50	7.59			101		90-110		
Batch number: 16148667601B	Sample number(s): 8397621								
Sulfate	7.50	7.59			101		90-110		
Batch number: 16150106103B	Sample number(s): 8397618,8397621								
Nitrate Nitrogen	2.50	2.45			98		90-110		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16149834401A	Sample number(s): 8397618,8397621								
Ferrous Iron	0.400	0.399			100		93-105		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16147003102A	Sample number(s): 8397618,8397621								
Total Alkalinity to pH 4.5	188	176.75			94		84-110		

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 161471848003	Sample number(s): 8397618,8397621 UNSPK: P398665									
Manganese	0.00130	0.500	0.502	0.500	0.479	100	96	75-125	5	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16146105102A	Sample number(s): 8397618,8397621 UNSPK: P397630									
Nitrite Nitrogen	0.0359	0.200	0.204			84*		90-110		
Batch number: 16148667601A	Sample number(s): 8397618 UNSPK: P400431									
Sulfate	57.27	50	108.03			102		90-110		
Batch number: 16148667601B	Sample number(s): 8397621 UNSPK: P400420									
Sulfate	483.76	500	983.24			100		90-110		
Batch number: 16150106103B	Sample number(s): 8397618,8397621 UNSPK: P396884									
Nitrate Nitrogen	0.0739	1.00	1.15			108		90-110		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665388

MS/MSD (continued)

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16149834401A	Sample number(s): 8397618,8397621 UNSPK: P400088									
Ferrous Iron	4.35	8.00	11.81	8.00	11.95	93	95	93-105	1	6
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16147003102A	Sample number(s): 8397618,8397621 UNSPK: P397674									
Total Alkalinity to pH 4.5	N.D.	188	N.D.	188	N.D.	0*	0*	84-110	0	5

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Batch number: 161471848003	Sample number(s): 8397618,8397621 BKG: P398665			
Manganese	0.00130	0.00137	5 (1)	20
	mg/l	mg/l		
Batch number: 16146105102A	Sample number(s): 8397618,8397621 BKG: P397630			
Nitrite Nitrogen	0.0359	0.0343	5 (1)	20
Batch number: 16148667601A	Sample number(s): 8397618 BKG: P400431			
Sulfate	57.27	56.96	1	15
Batch number: 16148667601B	Sample number(s): 8397621 BKG: P400420			
Sulfate	483.76	484.14	0	15
Batch number: 16150106103B	Sample number(s): 8397618,8397621 BKG: P396884			
Nitrate Nitrogen	0.0739	0.0402	59* (1)	2
	mg/l	mg/l		
Batch number: 16149834401A	Sample number(s): 8397618,8397621 BKG: P400088			
Ferrous Iron	4.35	4.39	1 (1)	5
	mg/l as CaCO3	mg/l as CaCO3		
Batch number: 16147003102A	Sample number(s): 8397618,8397621 BKG: P397674			
Total Alkalinity to pH 4.5	N.D.	N.D.	0 (1)	5

Surrogate Quality Control

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

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665388

Surrogate Quality Control

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

Analysis Name: Methane
Batch number: 161470011A

	Propene
8397618	95
8397621	97
Blank	111
LCS	108
LCSD	105
Limits:	44-123

Analysis Name: DRO micro-ext 8015B
Batch number: 161480006A

	Orthoterphenyl
8397614	391*
8397615	102
8397616	178*
8397617	1429*
8397618	1486*
8397619	109
8397620	26*
8397621	47
Blank	96
LCS	98
LCSD	93
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1665388 Sample # 8397614-21

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Ashley Bell	P.O. #: 0402919
Sampler: Brendan Huffey	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

Matrix: Sediment ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Soil ☐ Water ☐ Other:

Analyses Requested / Preservation Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	BTEX, Naphthalene (SW-846 8260B) (H)	Alkalinity (SM 2320B) (None)	Nitrate NO3-1 (EPA 353.2) (S)	Manganese Mn2+ (EPA 6010B) (N)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) (H)	Sulfate SO42- (EPA 300.0) (None)	Methane (RSKSOP-175 modified) (H)	Remarks
RW-123S	5/24/16	8:55	X		2	X								
RW-119S	5/24/16	9:10	↓		2	X								
RW-05S	5/24/16	9:30	↓		2	X								
RW-116S	5/24/16	9:45	↓		2	X								
RW-10S	5/24/16	10:00	↓		11	X		X	X	X	X	X	X	
RW-118S	5/24/16	11:35	↓		2	X								
MW-28S	5/24/16	12:15	↓		2	X								
MW-106	5/24/16	13:00	↓		11	X		X	X	X	X	X	X	

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5/24/16	16:00	Denise Woodring	5-25-16	0800
Denise Woodring	5-25-16	12:10	[signature]	5/25/16	1200
[signature]	5/25/16	16:00			

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.2 °C

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7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 147974

Group Number(s): 1665388

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/25/2016 16:55
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 19:07 on 05/25/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
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www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: June 16, 2016

Project: NRG PRGS

Submittal Date: 05/25/2016
Group Number: 1665389
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
MW-08S Grab Groundwater	8397622
MW-51S Grab Groundwater	8397623
RW-05 Grab Groundwater	8397624
RW-25 Grab Groundwater	8397625
RW-51 Grab Groundwater	8397626
RW-72 Grab Groundwater	8397627
RW-1 Grab Groundwater	8397628
RW-31 Grab Groundwater	8397629
TW-06 Grab Groundwater	8397630

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

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Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: MW-08S Grab Groundwater
NRG PRGS

LL Sample # WW 8397622
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 11:40 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	8,500	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 15:23	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: MW-51S Grab Groundwater
NRG PRGS

LL Sample # WW 8397623
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 12:00 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-02

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	3,800	60	20
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	11,000	45	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	3.46	0.0012	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	884	60.0	200
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	0.039 J	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	335	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	32.0	1.0	100

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161470011A	05/27/2016 19:32	Johanna C Kennedy	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 15:47	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161471848003	05/27/2016 06:48	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161471848003	05/26/2016 20:10	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	16147972121B	05/27/2016 08:36	Drew M Gerhart	200
00220	Nitrate Nitrogen	EPA 353.2	1	16150106104A	05/29/2016 19:01	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16146105102A	05/25/2016 22:20	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16148004101A	05/27/2016 15:13	Yolunder Y Bunch	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	100

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Analysis Report

Sample Description: RW-05 Grab Groundwater
NRG PRGS

LL Sample # WW 8397624
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 10:45 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	62,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 16:11	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-25 Grab Groundwater
NRG PRGS

LL Sample # WW 8397625
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 10:55 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,900	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 16:34	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-51 Grab Groundwater
NRG PRGS

LL Sample # WW 8397626
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 11:15 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	780	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 16:58	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-72 Grab Groundwater
NRG PRGS

LL Sample # WW 8397627
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 12:45 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
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NR-06

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	360	45	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	1.72	0.0012	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	246	30.0	100
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.25	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	24.0	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	0.073	0.010	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161470011A	05/26/2016 16:39	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 17:24	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161471848003	05/27/2016 06:51	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161471848003	05/26/2016 20:10	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	16147972121B	05/27/2016 08:55	Drew M Gerhart	100
00220	Nitrate Nitrogen	EPA 353.2	1	16150106104A	05/29/2016 19:06	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16146105102A	05/25/2016 22:22	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16148004101A	05/27/2016 16:26	Yolunder Y Bunch	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	1

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Analysis Report

Sample Description: RW-1 Grab Groundwater
NRG PRGS

LL Sample # WW 8397628
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 11:25 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-07

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,500	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 17:48	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: RW-31 Grab Groundwater
NRG PRGS

LL Sample # WW 8397629
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 11:05 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-08

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,200	45	1

The reported result may be attributed to contamination of the sample extract during the sample preparation. The sample was re-extracted outside the method required holding time and the suspected contamination is not present. Since the sample could not be re-extracted within the method specified holding time, the results from the initial trial are reported. Results of the re-extract are 700 ug/L.

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 18:11	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1

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Analysis Report

Sample Description: TW-06 Grab Groundwater
NRG PRGS

LL Sample # WW 8397630
LL Group # 1665389
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 10:30 by JP

Submitted: 05/25/2016 16:55
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NR-09

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	3,400	60	20
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,800	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	2.10	0.0012	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	402	15.0	50
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	0.036 J	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	72.0	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	46.0	1.0	100

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161470011A	05/27/2016 20:06	Johanna C Kennedy	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480006A	05/31/2016 18:35	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480006A	05/30/2016 08:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161471848003	05/27/2016 06:54	Joanne M Gates	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161471848003	05/26/2016 20:10	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	16147972121B	05/27/2016 09:13	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	16150106104A	05/29/2016 19:08	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16146105102A	05/25/2016 22:23	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16148004101A	05/27/2016 15:20	Yolunder Y Bunch	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	100

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665389

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: 161470011A	Sample number(s): 8397623,8397627,8397630	
Methane	N.D.	3.0
Batch number: 161480006A	Sample number(s): 8397622-8397630	
DRO C10-C28	N.D.	45
	mg/l	mg/l
Batch number: 161471848003	Sample number(s): 8397623,8397627,8397630	
Manganese	N.D.	0.0012
Batch number: 16146105102A	Sample number(s): 8397623,8397627,8397630	
Nitrite Nitrogen	N.D.	0.015
Batch number: 16147972121B	Sample number(s): 8397623,8397627,8397630	
Sulfate	N.D.	0.30
Batch number: 16150106104A	Sample number(s): 8397623,8397627,8397630	
Nitrate Nitrogen	N.D.	0.040
Batch number: 16149834401A	Sample number(s): 8397623,8397627,8397630	
Ferrous Iron	N.D.	0.010
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 16148004101A	Sample number(s): 8397623,8397627,8397630	
Total Alkalinity to pH 4.5	N.D.	0.70

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161470011A	Sample number(s): 8397623,8397627,8397630								
Methane	59.8	66.73	59.8	64.91	112	109	85-115	3	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161480006A	Sample number(s): 8397622-8397630								
DRO C10-C28	2640	2809.72	2680	2249.16	106	84	69-115	22*	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 161471848003	Sample number(s): 8397623,8397627,8397630								
Manganese	0.500	0.513			103		80-120		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665389

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 16146105102A	Sample number(s): 8397623,8397627,8397630								
Nitrite Nitrogen	0.700	0.716			102		90-110		
Batch number: 16147972121B	Sample number(s): 8397623,8397627,8397630								
Sulfate	7.50	7.60			101		90-110		
Batch number: 16150106104A	Sample number(s): 8397623,8397627,8397630								
Nitrate Nitrogen	2.50	2.54			102		90-110		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16149834401A	Sample number(s): 8397623,8397627,8397630								
Ferrous Iron	0.400	0.399			100		93-105		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16148004101A	Sample number(s): 8397623,8397627,8397630								
Total Alkalinity to pH 4.5	188	175.28			93		84-110		

MS/MSD

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 161471848003	Sample number(s): 8397623,8397627,8397630 UNSPK: P398665									
Manganese	0.00130	0.500	0.502	0.500	0.479	100	96	75-125	5	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16146105102A	Sample number(s): 8397623,8397627,8397630 UNSPK: 8397630									
Nitrite Nitrogen	0.0359	0.200	0.204			84*		90-110		
Batch number: 16147972121B	Sample number(s): 8397623,8397627,8397630 UNSPK: P399089									
Sulfate	4.18	50	56.13			104		90-110		
Batch number: 16150106104A	Sample number(s): 8397623,8397627,8397630 UNSPK: 8397623									
Nitrate Nitrogen	0.0592	1.00	1.18			112*		90-110		
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16149834401A	Sample number(s): 8397623,8397627,8397630 UNSPK: P400088									
Ferrous Iron	4.35	8.00	11.81	8.00	11.95	93	95	93-105	1	6
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16148004101A	Sample number(s): 8397623,8397627,8397630 UNSPK: P396412									
Total Alkalinity to pH 4.5	154.34	188	304.28	188	303.41	80*	79*	84-110	0	5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665389

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Batch number: 161471848003	Sample number(s): 8397623,8397627,8397630 BKG: P398665			
Manganese	0.00130	0.00137	5 (1)	20
	mg/l	mg/l		
Batch number: 16146105102A	Sample number(s): 8397623,8397627,8397630 BKG: 8397630			
Nitrite Nitrogen	0.0359	0.0343	5 (1)	20
Batch number: 16147972121B	Sample number(s): 8397623,8397627,8397630 BKG: P399089			
Sulfate	4.18	4.00	4 (1)	15
Batch number: 16150106104A	Sample number(s): 8397623,8397627,8397630 BKG: 8397623			
Nitrate Nitrogen	0.0592	0.0439	30* (1)	2
	mg/l	mg/l		
Batch number: 16149834401A	Sample number(s): 8397623,8397627,8397630 BKG: P400088			
Ferrous Iron	4.35	4.39	1 (1)	5
	mg/l as CaCO3	mg/l as CaCO3		
Batch number: 16148004101A	Sample number(s): 8397623,8397627,8397630 BKG: P396412			
Total Alkalinity to pH 4.5	154.34	153.93	0	5

Surrogate Quality Control

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

Analysis Name: Methane
Batch number: 161470011A

	Propene
8397623	105
8397627	93
8397630	108
Blank	111
LCS	108
LCSD	105
Limits:	44-123

Analysis Name: DRO micro-ext 8015B
Batch number: 161480006A

	Orthoterphenyl
8397622	135
8397623	133
8397624	45

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665389

Surrogate Quality Control (continued)

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

	Orthoterphenyl
8397625	121
8397626	93
8397627	101
8397628	50
8397629	85
8397630	111
Blank	96
LCS	98
LCSD	93
Limits:	42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1665389 Sample # 8397622-30

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Ashley Bell	P.O. #: 0402919
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA	

Matrix: Sediment ☐ Ground ☒ Surface ☐ Potable ☐ NPDES ☐ Soil ☐ Water ☒ Other:

Analyses Requested / Preservation Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	BTEX, Naphthalene (SW-846 8260B) (H)	Alkalinity (SM 2320B) (None)	Nitrate NO3-1 (EPA 353.2) (S)	Manganese Mn2+ (EPA 6010B) (N)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) (H)	Sulfate SO42- (EPA 300.0) (None)	Methane (RSKSOP-175 modified) (H)	[redacted]	[redacted]						Remarks
MW-08S	5-24-15	1140	X		5	X	[redacted]							[redacted]							
MW-51S		1200			11	X		X	X	X	X	X	X								
RW-05		1045			2	X															
RW-25		1055			2	X															
RW-51		1115			5	X	[redacted]							[redacted]							
RW-72		1245			14	X	[redacted]	X	X	X	X	X	X	[redacted]							
RW-1		1125			2	X															
RW-31		1105			2	X															
TW-06	5-24-16	1030	X		11	X		X	X	X	X	X	X								

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-25-16	0800	Denise Woodring	5-25-16	0800
Denise Woodring	5-25-16	12:10	[illegible]	5/25/16	12:10
[illegible]	5/25/16	16:55			
			[illegible]	5/25/16	1655

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.2 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 147974

Group Number(s): 1665389

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/25/2016 16:55
Number of Packages:	1	Number of Projects:	3
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 19:07 on 05/25/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	1.2	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: June 16, 2016

Project: NRG PRGS

Submittal Date: 05/26/2016
Group Number: 1665885
PO Number: NRG PRGS
Release Number: 0402919
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
RW-72S Grab Groundwater	8400087
MW-27 Grab Groundwater	8400088
MW-121 Grab Groundwater	8400089
MW-122 Grab Groundwater	8400090
MW-108 Grab Groundwater	8400091
TW-04 Grab Groundwater	8400092
TW-07 Grab Groundwater	8400093

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

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Analysis Report

Sample Description: RW-72S Grab Groundwater
NRG PRGS

LL Sample # WW 8400087
LL Group # 1665885
Account # 08390

Project Name: NRG PRGS

Collected: 05/25/2016 10:45 by BH

Submitted: 05/26/2016 15:25
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

RW72S

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	20	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	3,800	45	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	34.8	0.0060	5
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	1,500	60.0	200
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	51.9	1.0	100

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161480003A	05/27/2016 14:24	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161560037A	06/09/2016 16:45	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	2	161560037A	06/08/2016 06:55	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161481848001	05/31/2016 20:20	Cindy M Gehman	5
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161481848001	05/29/2016 07:50	Lisa J Cooke	1
00228	Sulfate	EPA 300.0	1	16148667131A	05/28/2016 23:51	Drew M Gerhart	200
00220	Nitrate Nitrogen	EPA 353.2	1	16150106105A	05/29/2016 20:02	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16147105105A	05/26/2016 21:22	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16148004103A	05/27/2016 23:12	Yolunder Y Bunch	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	100

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Analysis Report

Sample Description: MW-27 Grab Groundwater NRG PRGS

LL Sample # WW 8400088
LL Group # 1665885
Account # 08390

Project Name: NRG PRGS

Collected: 05/25/2016 11:45 by BH

Submitted: 05/26/2016 15:25
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MW-27

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous	**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane	74-82-8	N.D.	3.0	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	18,000	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	6.85	0.0012	1
Wet Chemistry	**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	452	15.0	50
	EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
	SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	44.3	0.70	1
	SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron	n.a.	4.4	0.20	20

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161480003A	05/27/2016 14:41	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480007A	05/31/2016 23:41	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480007A	05/30/2016 08:10	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161551848001	06/06/2016 15:52	Eric L Eby	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161551848001	06/06/2016 05:36	James L Mertz	1
00228	Sulfate	EPA 300.0	1	16148667131A	05/27/2016 19:36	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	16150106105A	05/29/2016 19:53	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16147105105A	05/26/2016 21:24	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16148004104A	05/28/2016 00:33	Yolunder Y Bunch	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	20

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Analysis Report

Sample Description: MW-121 Grab Groundwater
NRG PRGS

LL Sample # WW 8400089
LL Group # 1665885
Account # 08390

Project Name: NRG PRGS

Collected: 05/25/2016 12:40 by BH

Submitted: 05/26/2016 15:25
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MW121

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	3,300	60	20
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	12,000	45	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	22.0	0.0060	5
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	115	3.0	10
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	374	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	81.4	2.0	200

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161480003A	05/28/2016 11:12	Johanna C Kennedy	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480007A	06/01/2016 00:05	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480007A	05/30/2016 08:10	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161551848001	06/07/2016 10:27	Eric L Eby	5
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161551848001	06/06/2016 05:36	James L Mertz	1
00228	Sulfate	EPA 300.0	1	16148667131A	05/27/2016 19:54	Drew M Gerhart	10
00220	Nitrate Nitrogen	EPA 353.2	1	16150106105A	05/29/2016 20:04	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16147105105A	05/26/2016 21:25	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16148004103A	05/27/2016 23:06	Yolunder Y Bunch	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	200

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Analysis Report

Sample Description: MW-122 Grab Groundwater
NRG PRGS

LL Sample # WW 8400090
LL Group # 1665885
Account # 08390

Project Name: NRG PRGS

Collected: 05/25/2016 13:20 by BH

Submitted: 05/26/2016 15:25
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MW122

CAT No.	Analysis Name		CAS Number	Result	Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	450	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	4,000	45	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	16.3	0.0060	5
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	188	15.0	50
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.048 J	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 2320 B-1997		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	300	0.70	1
		SM 3500-Fe B 1997		**mg/l**	**mg/l**	
08344	Ferrous Iron		n.a.	90.8	2.0	200

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	161480003A	05/27/2016 15:14	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480007A	06/01/2016 00:28	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480007A	05/30/2016 08:10	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	161551848001	06/07/2016 10:30	Eric L Eby	5
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161551848001	06/06/2016 05:36	James L Mertz	1
00228	Sulfate	EPA 300.0	1	16148667131B	05/29/2016 00:09	Drew M Gerhart	50
00220	Nitrate Nitrogen	EPA 353.2	1	16150106105A	05/29/2016 20:06	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	16147105105A	05/26/2016 21:29	James S Mathiot	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-1997	1	16148004103A	05/28/2016 00:01	Yolunder Y Bunch	1
08344	Ferrous Iron	SM 3500-Fe B 1997	1	16149834401A	05/28/2016 06:45	Daniel S Smith	200

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Analysis Report

Sample Description: MW-108 Grab Groundwater
NRG PRGS

LL Sample # WW 8400091
LL Group # 1665885
Account # 08390

Project Name: NRG PRGS

Collected: 05/25/2016 13:45 by BH

Submitted: 05/26/2016 15:25
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

MW108

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	51	J	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480007A	06/01/2016 00:52	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480007A	05/30/2016 08:10	Maria Davenport	1

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Analysis Report

Sample Description: TW-04 Grab Groundwater
NRG PRGS

LL Sample # WW 8400092
LL Group # 1665885
Account # 08390

Project Name: NRG PRGS

Collected: 05/24/2016 14:00 by BH

Submitted: 05/26/2016 15:25
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

04-TW

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,100	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480007A	06/01/2016 01:16	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480007A	05/30/2016 08:10	Maria Davenport	1

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Analysis Report

Sample Description: TW-07 Grab Groundwater
NRG PRGS

LL Sample # WW 8400093
LL Group # 1665885
Account # 08390

Project Name: NRG PRGS

Collected: 05/25/2016 11:00 by BH

Submitted: 05/26/2016 15:25
Reported: 06/16/2016 13:03

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

07-TW

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161480007A	06/01/2016 01:39	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161480007A	05/30/2016 08:10	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665885

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: 161480003A	Sample number(s): 8400087-8400090	
Methane	N.D.	3.0
Batch number: 161480007A	Sample number(s): 8400088-8400093	
DRO C10-C28	N.D.	45
Batch number: 161560037A	Sample number(s): 8400087	
DRO C10-C28	N.D.	45
	mg/l	mg/l
Batch number: 161481848001	Sample number(s): 8400087	
Manganese	N.D.	0.0012
Batch number: 161551848001	Sample number(s): 8400088-8400090	
Manganese	N.D.	0.0012
Batch number: 16147105105A	Sample number(s): 8400087-8400090	
Nitrite Nitrogen	N.D.	0.015
Batch number: 16148667131A	Sample number(s): 8400087-8400089	
Sulfate	N.D.	0.30
Batch number: 16148667131B	Sample number(s): 8400090	
Sulfate	N.D.	0.30
Batch number: 16150106105A	Sample number(s): 8400087-8400090	
Nitrate Nitrogen	N.D.	0.040
Batch number: 16149834401A	Sample number(s): 8400087-8400090	
Ferrous Iron	N.D.	0.010
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 16148004103A	Sample number(s): 8400087,8400089-8400090	
Total Alkalinity to pH 4.5	N.D.	0.70
Batch number: 16148004104A	Sample number(s): 8400088	
Total Alkalinity to pH 4.5	N.D.	0.70

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 161480003A	Sample number(s): 8400087-8400090								

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665885

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Methane	59.8	67.38			113		85-115		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161480007A	Sample number(s): 8400088-8400093								
DRO C10-C28	2690	2179.96			81		69-115		
Batch number: 161560037A	Sample number(s): 8400087								
DRO C10-C28	2700	2478.28	2690	2387.67	92	89	69-115	4	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 161481848001	Sample number(s): 8400087								
Manganese	0.500	0.515			103		80-120		
Batch number: 161551848001	Sample number(s): 8400088-8400090								
Manganese	0.500	0.515			103		80-120		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16147105105A	Sample number(s): 8400087-8400090								
Nitrite Nitrogen	0.700	0.717			102		90-110		
Batch number: 16148667131A	Sample number(s): 8400087-8400089								
Sulfate	7.50	7.33			98		90-110		
Batch number: 16148667131B	Sample number(s): 8400090								
Sulfate	7.50	7.33			98		90-110		
Batch number: 16150106105A	Sample number(s): 8400087-8400090								
Nitrate Nitrogen	2.50	2.43			97		90-110		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16149834401A	Sample number(s): 8400087-8400090								
Ferrous Iron	0.400	0.399			100		93-105		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16148004103A	Sample number(s): 8400087,8400089-8400090								
Total Alkalinity to pH 4.5	188	179.59			96		84-110		
Batch number: 16148004104A	Sample number(s): 8400088								
Total Alkalinity to pH 4.5	188	178.81			95		84-110		

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665885

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 161480003A	Sample number(s): 8400087-8400090 UNSPK: P397674									
Methane	12747.66	59.8	9570.78	59.8	9611.48	-5312 (2)	-5243 (2)	73-125	0	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 161480007A	Sample number(s): 8400088-8400093 UNSPK: P397743									
DRO C10-C28	159.27	2670	2421.47	2700	2394.77	85	83	69-115	1	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 161481848001	Sample number(s): 8400087 UNSPK: P380091									
Manganese	0.174	2.50	2.65	2.50	2.71	99	101	75-125	2	20
Batch number: 161551848001	Sample number(s): 8400088-8400090 UNSPK: P407319									
Manganese	0.00482	0.500	0.516	0.500	0.522	102	103	75-125	1	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16147105105A	Sample number(s): 8400087-8400090 UNSPK: P399545									
Nitrite Nitrogen	N.D.	0.200	0.198			99		90-110		
Batch number: 16148667131A	Sample number(s): 8400087-8400089 UNSPK: P400439									
Sulfate	241.78	250	610.33			147*		90-110		
Batch number: 16148667131B	Sample number(s): 8400090 UNSPK: 8400090									
Sulfate	187.7	500	722.84			107		90-110		
Batch number: 16150106105A	Sample number(s): 8400087-8400090 UNSPK: 8400088									
Nitrate Nitrogen	N.D.	1.00	1.11			111*		90-110		
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16149834401A	Sample number(s): 8400087-8400090 UNSPK: 8400088									
Ferrous Iron	4.35	8.00	11.81	8.00	11.95	93	95	93-105	1	6
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 16148004103A	Sample number(s): 8400087,8400089-8400090 UNSPK: P400431									
Total Alkalinity to pH 4.5	38.51	188	172.14	188	170.12	71*	70*	84-110	1	5
Batch number: 16148004104A	Sample number(s): 8400088 UNSPK: P400439									
Total Alkalinity to pH 4.5	38.03	188	105.62	188	104.01	36*	35*	84-110	2	5

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665885

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
	mg/l	mg/l		
Batch number: 161481848001	Sample number(s): 8400087 BKG: P380091			
Manganese	0.174	0.163	7	20
Batch number: 161551848001	Sample number(s): 8400088-8400090 BKG: P407319			
Manganese	0.00482	0.00489	1 (1)	20
	mg/l	mg/l		
Batch number: 16147105105A	Sample number(s): 8400087-8400090 BKG: P399545			
Nitrite Nitrogen	N.D.	N.D.	0 (1)	20
Batch number: 16148667131A	Sample number(s): 8400087-8400089 BKG: P400439			
Sulfate	241.78	264.11	9	15
Batch number: 16148667131B	Sample number(s): 8400090 BKG: 8400090			
Sulfate	187.7	187.47	0 (1)	15
Batch number: 16150106105A	Sample number(s): 8400087-8400090 BKG: 8400088			
Nitrate Nitrogen	N.D.	N.D.	0 (1)	2
	mg/l	mg/l		
Batch number: 16149834401A	Sample number(s): 8400087-8400090 BKG: 8400088			
Ferrous Iron	4.35	4.39	1 (1)	5
	mg/l as CaCO3	mg/l as CaCO3		
Batch number: 16148004103A	Sample number(s): 8400087,8400089-8400090 BKG: P400431			
Total Alkalinity to pH 4.5	38.51	36.91	4	5
Batch number: 16148004104A	Sample number(s): 8400088 BKG: P400439			
Total Alkalinity to pH 4.5	38.03	36.07	5	5

Surrogate Quality Control

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

Analysis Name: Methane
Batch number: 161480003A

	Propene
8400087	98
8400088	91
8400089	96
8400090	81
Blank	106
LCS	110
MS	142*
MSD	146*

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/16/2016 13:03

Group Number: 1665885

Surrogate Quality Control

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

Limits: 44-123

Analysis Name: DRO micro-ext 8015B
Batch number: 161480007A

	Orthoterphenyl
8400088	79
8400089	112
8400090	44
8400091	99
8400092	104
8400093	104
Blank	104
LCS	92
MS	85
MSD	85

Limits: 42-160

Analysis Name: DRO micro-ext 8015B
Batch number: 161560037A

	Orthoterphenyl
8400087	99
Blank	98
LCS	98
LCSD	98

Limits: 42-160

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1665885 Sample # 8400087-93

Client: Groundwater & Env. Services, Inc.
Project Name/#: NRG PRGS — Site ID #: NRG PRGS
Project Manager: Ashley Bell — P.O. #: 0402919
Sampler: Brendan Haffey — PWSID #:
Phone #: 800-220-3606 x 3704 — Quote #: 212032A
State where sample(s) were collected: 1400 North Royal St., Alexandria, VA

For Lab Use Only
SF #:
SCR #:

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Potable	Ground Water	Surface	NPDES	Other:	Total # of Containers	TPH-DRO C10-C28 (SW-846 8015B) (H)	BTEX, Naphthalene (SW-846 8260B) (H)	Alkalinity (SM 2320B) (None)	Nitrate NO3-1 (EPA 353.2) (S)	Manganese Mn2+ (EPA 6010B) (N)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997) (H)	Sulfate SO42- (EPA 300.0) (None)	Methane (RSKSOP-175 modified) (H)	Remarks
BW-72S	5/25/16	10:45	X					X				12	X		X	X	X	X	X	X	
MW-27	5/25/16	11:45										12	X		X	X	X	X	X	X	
MW-121	5/25/16	12:40										12	X		X	X	X	X	X	X	
MW-122	5/25/16	13:20										12	X		X	X	X	X	X	X	
MW-108	5/25/16	13:45										2	X								
TW-04	5/24/16	14:00										2	X								
TW-07	5/25/16	11:00										2	X								

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	5/25/16	16:20	Denise Woodring	5-25-16	1620
Denise Woodring	5/26/16	12:30	[signature]	5/26/16	12:30
[signature]	5/26/16	15:25			
			E Sacher	5/26/16	1525

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 148147

Group Number(s): 1665885

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/26/2016 15:25
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 17:40 on 05/26/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	1.9	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ATTACHMENT D

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – SP-15 SOIL SAMPLE

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: April 20, 2016

Project: NRG PRGS

Submittal Date: 04/08/2016
Group Number: 1648914
PO Number: NRG PRGS
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
SP-15(5.5') Grab Soil	8325608

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution
Electronic Copy To	GES Inc.	Attn: Andrea Taylorson-Collins

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: SP-15(5.5') Grab Soil
NRG PRGS

LL Sample # SW 8325608
LL Group # 1648914
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 11:25 by MR

Submitted: 04/08/2016 16:20
Reported: 04/20/2016 09:19

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

SP-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC Miscellaneous	**SW-846 8015B**		**mg/kg**	**mg/kg**	
10941	TPH-DRO soil C10-C28 microwave	n.a.	1,600	91	20
Wet Chemistry	**SM 2540 G-1997**		**%**	**%**	
00111	Moisture	n.a.	13.0	0.50	1

Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	161070015A	04/19/2016 13:14	Thomas C Wildermuth	20
10942	Microwave Extraction-DRO soils	SW-846 3546	1	161070015A	04/18/2016 07:30	Scott J Carini	1
00111	Moisture	SM 2540 G-1997	1	16103820005A	04/12/2016 17:57	Scott W Freisher	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/20/2016 09:19

Group Number: 1648914

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

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

Method Blank

Analysis Name	Result mg/kg	MDL mg/kg
Batch number: 161070015A	Sample number(s): 8325608	
TPH-DRO soil C10-C28 microwave	N.D.	4.0

LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 161070015A	Sample number(s): 8325608								
TPH-DRO soil C10-C28 microwave	133	127.06			96		74-117		
	%	%	%	%					
Batch number: 16103820005A	Sample number(s): 8325608								
Moisture	89.5	89.43			100		99-101		

MS/MSD

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

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 161070015A	Sample number(s): 8325608 UNSPK: P330677									
TPH-DRO soil C10-C28 microwave	22753.78	133	24460.72			1283 (2)		74-117		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/20/2016 09:19

Group Number: 1648914

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
Batch number: 161070015A	Sample number(s): 8325608 BKG: P330677			
TPH-DRO soil C10-C28 microwave	22753.78	26195.88	14	20
	%	%		
Batch number: 16103820005A	Sample number(s): 8325608 BKG: 8325608			
Moisture	13.01	12.99	0	5

Surrogate Quality Control

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

Analysis Name: TPH-DRO soil C10-C28 microwave
Batch number: 161070015A

	Orthoterphenyl
8325608	82
Blank	79
DUP	107
LCS	94
MS	126
Limits:	34-147

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1648914 Sample # 8325608

Client: Groundwater & Env. Services, Inc.

Project Name/#: NRG PRGS | Site ID #: NRG PRGS

Project Manager: Anne Ashley Bell | P.O. #:

Sampler: Matt Ridgeway | PWSID #:

Phone #: 800-220-3606 x 3704 | Quote #:

State where sample(s) were collected: 1400 North Royal St, Alexandria, VA

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Potable Water	Ground Water	NPDES Water	Surface Water	Other: Vapor	Total # of Containers	BTEX C1-C4 Hydrocarbons >C4 - C10 Hydrocarbons (EPA 18 / 25)	DRO (8015)
SP-15 (5.5')	4-7-16	1125	X		X							1		X

Analyses Requested / Preservation Codes

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	4-8-16	0845	Denise Woodring	4-8-16	0830
Denise Woodring	4-8-16	11:00	[signature]	4-8-16	11:00
[signature]	4-8-16	1620			
			Haitza Jurado	4/8/16	1620

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5 – 0.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 142242

Group Number(s): 1648914

Client: Groundwater

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	04/08/2016 16:20
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Maritza Fernandez (9906) at 17:27 on 04/08/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.5	DT	Wet	Y	Loose	N
2	DT146	0.9	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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ATTACHMENT E

BORING LOGS

BORING LOG

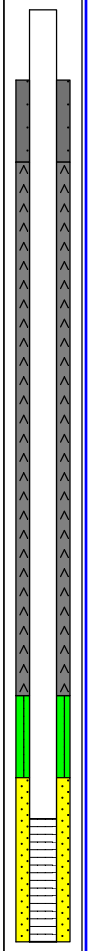
ID NO. **SP-09**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**8.50'**	TOTAL DEPTH:	**21'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**14.59'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/11/16-4/12/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) (0 – 75)	Recovery (feet)	Sample Lithology	Comments	Completion Details
0	0-5'	0.0	0-1'	TOPSOIL.	Hand-cleared to 5'; no utilities unearthed	1.71' Riser Stick-up; Manhole 0'-0.5'
		0.0	1-2'	Brown CLAY. Moist to wet.		Concrete 0.5'-2'
		0.0	2-3'	Tan to brown CLAY. Small pebbles with interbedded sands. Moist.		
		0.0	3-4'			
		0.0	4-5'	Tan to orange CLAY and fine sand. Moist.		
5	5-10'	0.0		No recovery		Grout 2'-15'
		0.0	6.5-10'	Brown CLAY with little sand. No odor. Moist.		
		0.0		Brown clayey SAND with dark mottles. No odor. Wet.	Depth to water: 8.50'	
		0.0		Stiff brown CLAY with trace fine sand. No odor. Moist to wet.		
10	10-15'	0.0	10.5-15'	No recovery.		2" Schedule 40 PVC Riser 0-18'
		0.0		Brown CLAY with trace sand. No odor. Moist.		
		0.8				
		3.6				
		29.8		Brown clayey SAND with fragmented rock. Staining and odor in rocks. Wet.		
15	15-20'	14.4	15.5-20'	No recovery.		Bentonite 15-17'
		1.6		Fine brown SAND with minor pebbles. Sheen and odor. Saturated.		
		11.3				#2 Sand Pack 17'-21'
		6.0		Brown clayey fine SAND with rock fragments. No odor. Wet.		
		4.6				2" Schedule 40 PVC 0.02" Slot Screen 18-21'
20	20-25'	4.5	20-25'	Brown medium to coarse SAND with rock fragments. Saturated.		
				Fine brown running SAND. No odor. Saturated.		
		1.0		Coarse brown SAND. No odor. Saturated.		
		1.2				
25		1.1				



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

BORING LOG

ID NO. **SP-10**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**18.00'**	TOTAL DEPTH:	**24.5'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**14.76'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/7/2016**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) (0–75)	Recovery (feet)	Sample Lithology	Comments	Completion Details
0	0-5'	0.0	0-1'	TOPSOIL.	Hand-cleared to 5'; no utilities unearthed	1.76' Riser Stick-up; Manhole 0'-0.5'; Concrete 1'-2'
		0.0	1-2'	Tan-red CLAY with fine grained sands. Large cobbles and brick fragments. Dry.		
		0.0	2-3'	Reddish to orange CLAY, non-plastic, dry-brittle, fine sands intermixed and tightly packed, cobbles present.		
		0.0	3-4'			
		0.0	4-5'			
5	5-10'	0.0	5-6'			
		0.0		No recovery.		
		0.0	7-10'	Brown soft to medium CLAY with trace round pebbles. No odor, moist.		Grout 2'-18.5'
		0.0				
		0.0				
10	10-15'	0.0	10-15'	Brown medium soft CLAY with trace silts. No odor, moist.		2" Schedule 40 PVC Riser 0'-21.5'
		0.0				
		0.0				
		0.0		Dark brown to black CLAY with gravel and pebbles. No odor, wet.		
15	15-20'	0.0		No recovery.		
		0.0	17-20'	Brown GRAVEL with some sand and silts. No odor. Saturated.	Depth to water: 18.00'	
		0.0		Dark brown GRAVEL with few sands. Black at 20 feet. No odor. Saturated.		Bentonite 18.5'-20.5'
		0.9				
20	20-25'	0.8	20-25'	Brown SAND and GRAVEL, dark brown at 22 feet. Saturated.		#2 Sand Pack 20.5'-24.5'
		0.0		Brown sandy GRAVEL with larger pebbles. No odor. Saturated.		2" Schedule 40 PVC 0.02" Slot Screen 21.5'-24.5'
		0.0				
		0.0				
25		0.0				

LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

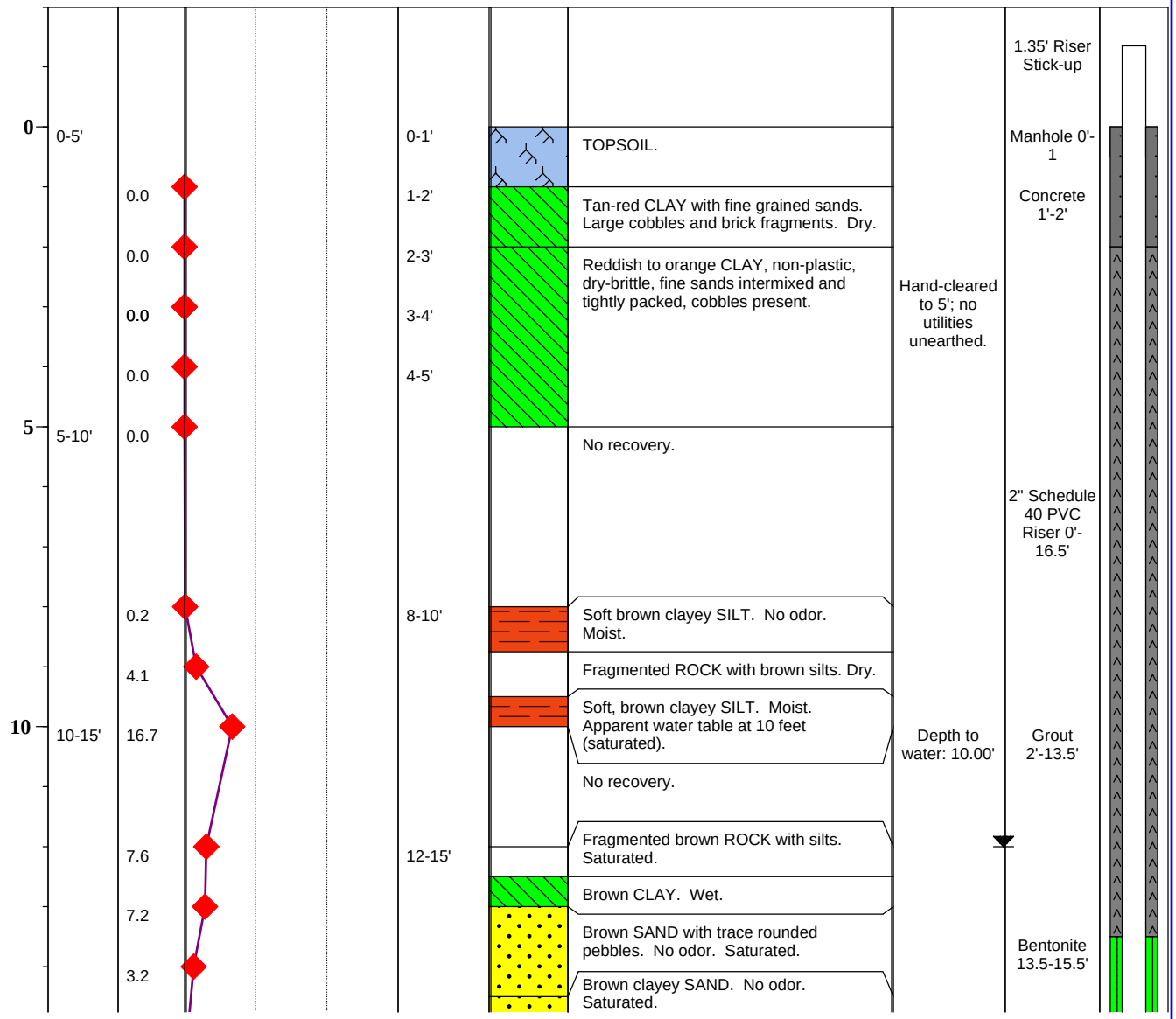
BORING LOG

ID NO. **SP-11**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**10.00'**	TOTAL DEPTH:	**19.5'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**13.80'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/11/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

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1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

BORING LOG

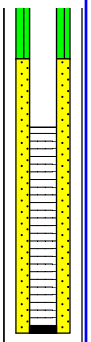
ID NO. **SP-11**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**10.00'**	TOTAL DEPTH:	**19.5'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**13.80'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/11/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) 0–75	Recovery (feet)	Sample Lithology	Comments	Completion Details
15	15-20'	1.3	15.5-20'	No recovery.		
		1.1		Brown clayey SAND with pebbles. No odor. Saturated.		#2 Sand Pack 15.5'-19.5'
				Brown SAND with rounded pebbles. No odor. Saturated.		
		0.8		Fine brown SAND. No odor. Saturated.		2" Schedule 40 PVC 0.02" Slot Screen 16.5-19.5'
		1.1		Brown medium to coarse SAND. Rounded pebbles intermixed. Saturated.		
20		5.4				



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

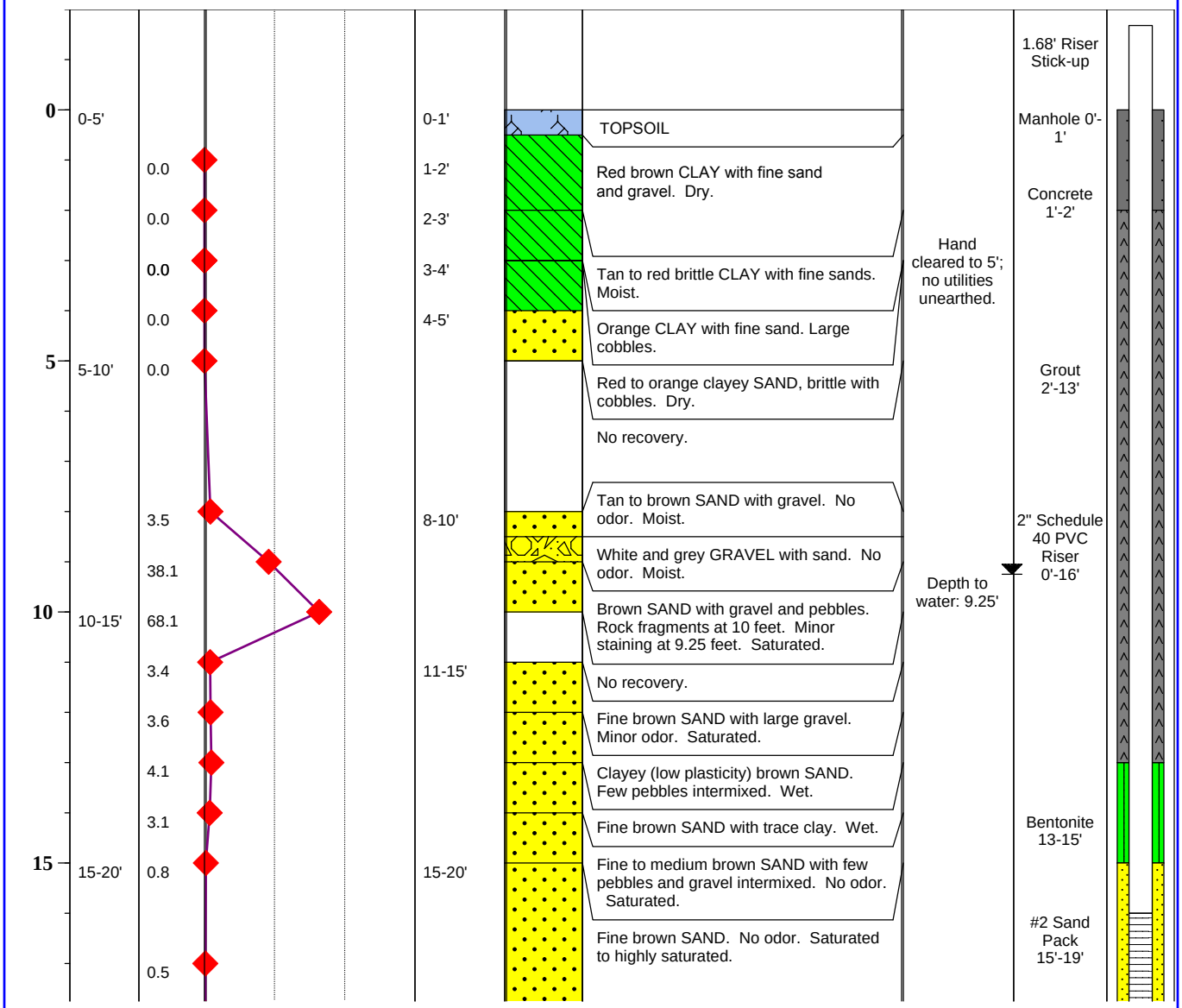
BORING LOG

ID NO. **SP-12**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**9.25'**	TOTAL DEPTH:	**19'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**13.99'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/13/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

BORING LOG

ID NO. **SP-12**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**9.25'**	TOTAL DEPTH:	**19'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**13.99'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/13/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**

Depth (feet)	Sample Interval (feet)	Field Screen: Total Organic Volatiles (ppm) 0 – 125	Recovery (feet)	Sample Lithology	Comments	Completion Details
20		0.5 0.6 1.3		Fine to medium brown SAND with few pebbles. No odor. Saturated. Black SAND with pebbles. No odor. Saturated. Broken GRAVEL with sand. No odor. Saturated.		2" Schedule 40 PVC 0.02" Slot Screen 16-19'

LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

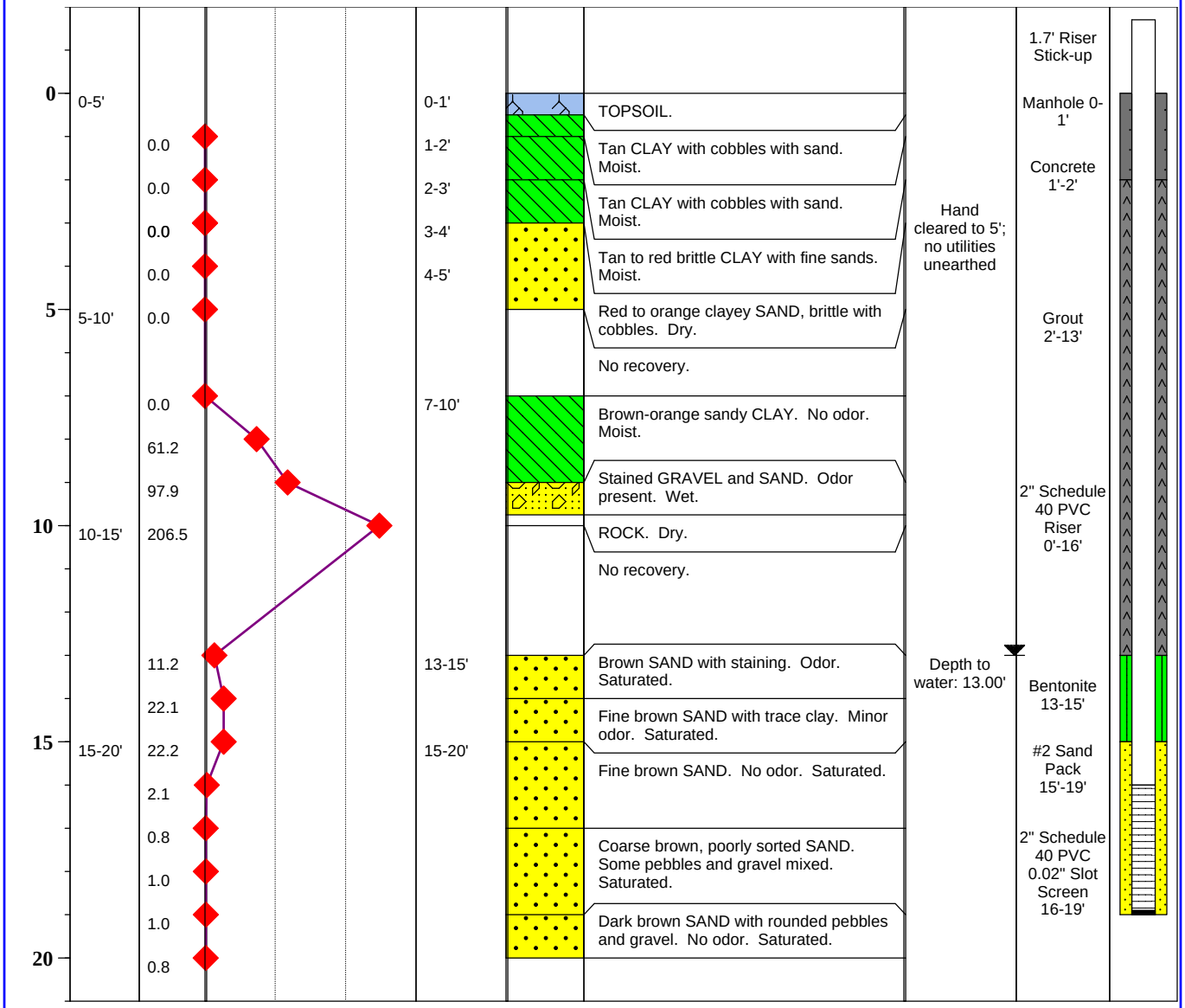
BORING LOG

ID NO. **SP-13**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**13.00'**	TOTAL DEPTH:	**19'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**13.39'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/12/16-4/13/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Unified Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Well ID: SP-13

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

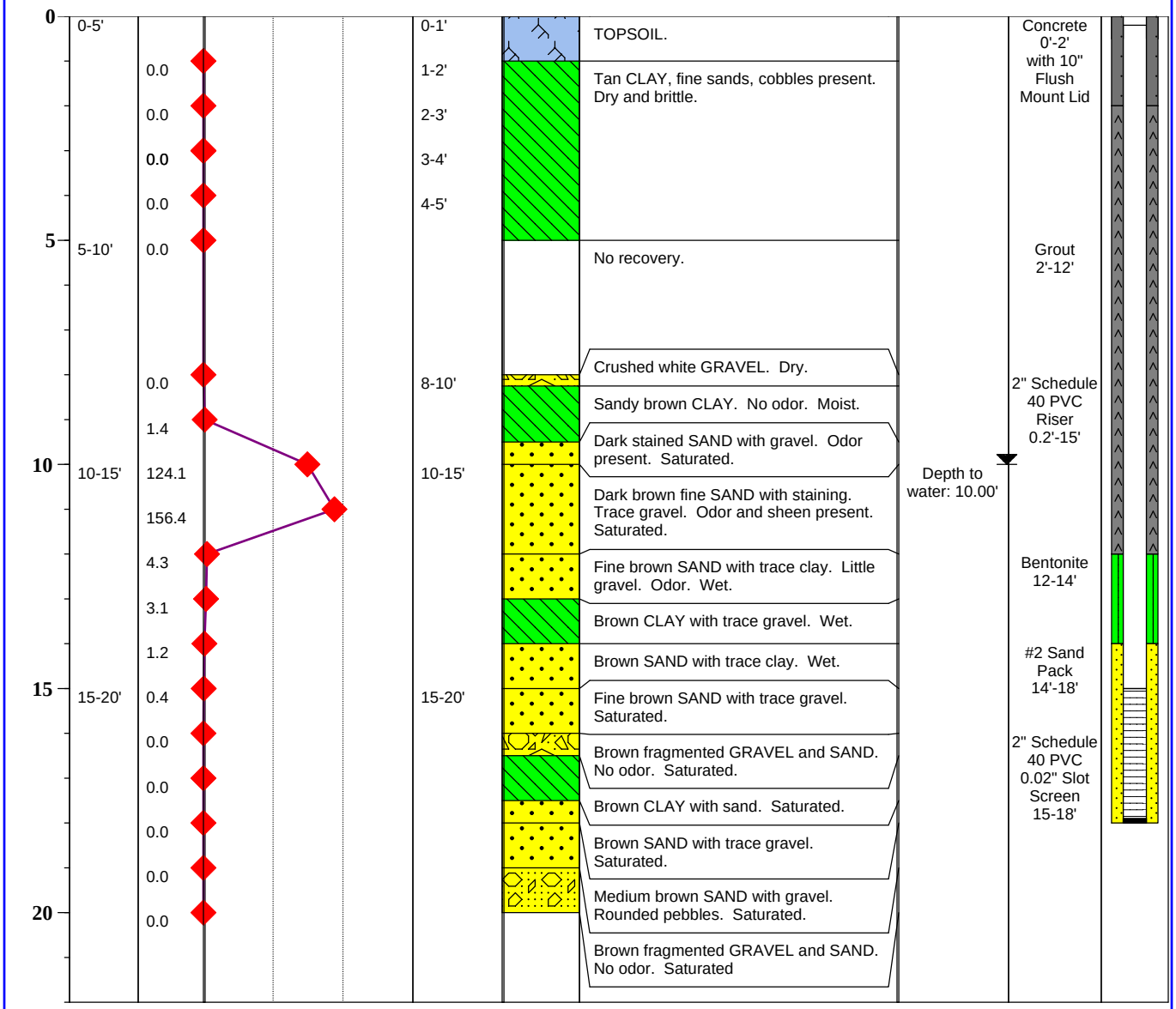
BORING LOG

ID NO. **SP-14**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**10.00'**	TOTAL DEPTH:	**18'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**9.99'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/8/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

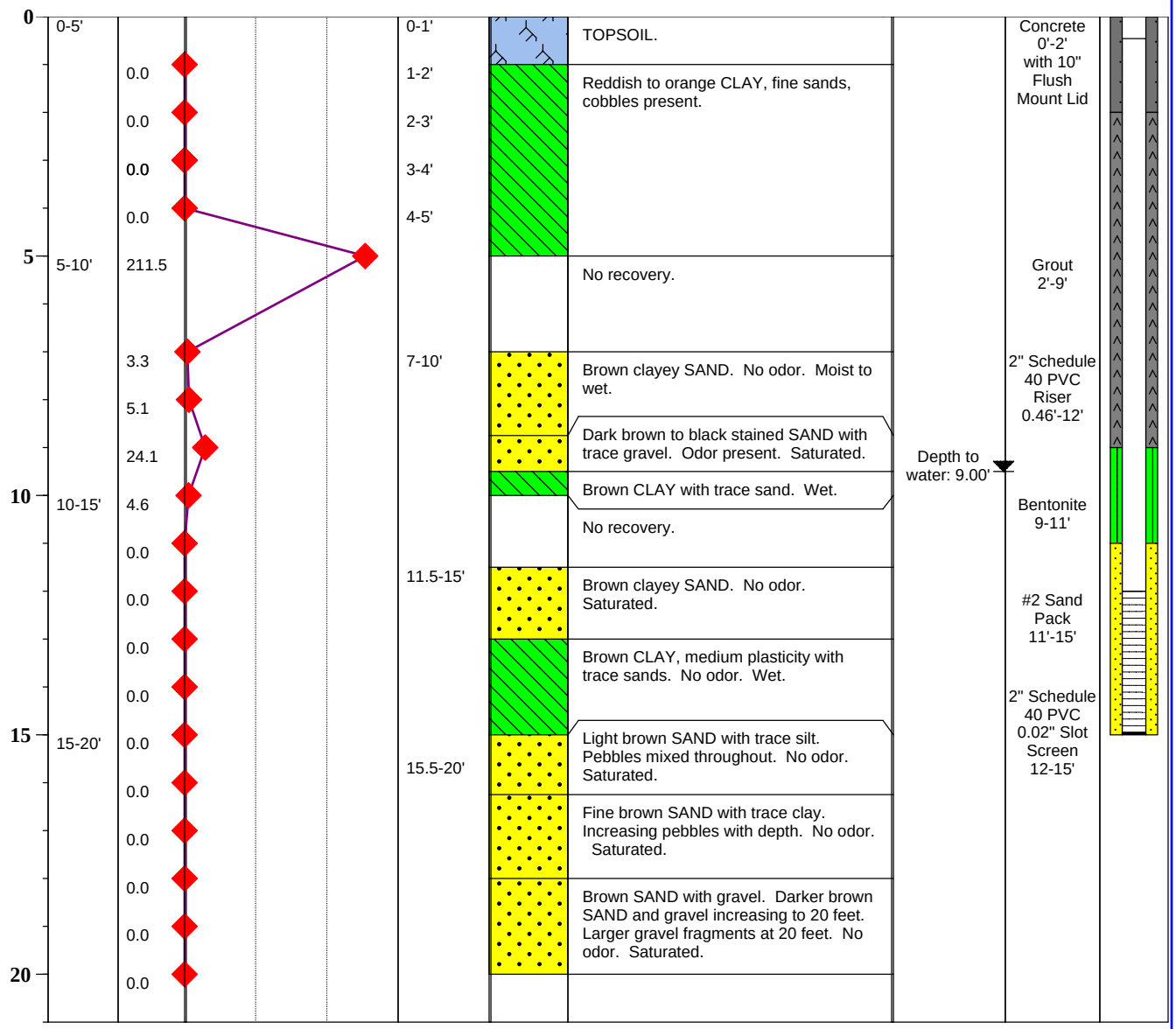
BORING LOG

ID NO. **SP-15**

Groundwater and Environmental Services, Inc.

PROJECT:	**Potomac River Generating Station**	WATER DEPTH:	**9.00'**	TOTAL DEPTH:	**15'**
ADDRESS:	**1400 N Royal St, Alexandria, VA**			CASING EL.:	**9.83'**
JOB NO.	**0402919**	BOREHOLE DIA.:	**8 1/4"**	WELL DIA.:	**2"**

Logged By:	**Scott Andresini**	Drilling Method:	**Hollow Stem Auger**
Dates Drilled:	**4/8/16**	Sampling Method:	**5' Acetate Sleeve**
Drilling Company:	**Odyssey Environmental Services**	Soil Class. System:	**Modified Burmister Soil Classification System**
Well Permit #:	**TBD**	Field Screening:	**PID, 10.6 eV Lamp**



LEGEND

Proportion Descriptions:

Trace = <10% Some = <50%

Little = <25% And = 50%

Symbol Key:

Water Level

Sample Location

" = inches

' = feet

ppm = parts per million

eV = electron volt

Well ID: SP-15

Groundwater & Environmental Services, Inc.
1350 Blair Drive, Suite A, Odenton, Maryland 800.220.3606 Fax 410.721.3733

ATTACHMENT F

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION – SYSTEM SAMPLING

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: April 18, 2016

Project: NRG PRGS

Submittal Date: 04/08/2016
Group Number: 1648859
PO Number: NRG PRGS
Release Number: 0402859
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TPE Vapor Grab Air	8325299

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES	Attn: Greg Reichart
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: TPE Vapor Grab Air
NRG PRGS - Alexandria, VA

LL Sample # AQ 8325299
LL Group # 1648859
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 13:00 by JP

Submitted: 04/08/2016 16:20
Reported: 04/18/2016 12:35

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	
07090	Benzene	71-43-2	< 3	3	1
07090	C1-C4 Hydrocarbons as propane	n.a.	25	18	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	110	35	1
07090	Ethylbenzene	100-41-4	< 4	4	1
07090	Toluene	108-88-3	< 4	4	1
07090	Xylene (total)	1330-20-7	< 9	9	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1610330AA	04/12/2016 16:12	Alexander D Sechrist	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/18/2016 12:35

Group Number: 1648859

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

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

Method Blank

Analysis Name	Result mg/m3	LOQ mg/m3
Batch number: M1610330AA	Sample number(s): 8325299	
Benzene	< 3	3
C1-C4 Hydrocarbons as propane	< 18	18
>C4-C10 Hydrocarbons hexane	< 35	35
Ethylbenzene	< 4	4
Toluene	< 4	4
Xylene (total)	< 9	9

LCS/LCSD

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1610330AA	Sample number(s): 8325299								
Benzene	32.27	27.19	32.27	24.78	84	77	71-116	9	30
Ethylbenzene	43.42	36.86	43.42	32.99	85	76	59-144	11	30
Toluene	37.69	37.68	37.69	33.74	100	90	77-143	11	30
Xylene (total)	129.4	107.58	129.4	93.75	83	72	58-148	14	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1648859 Sample # 8325299

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell	P.O. #:
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #:
State where sample(s) were collected: 1400 North Royal St, Alexandria, VA	

Matrix: ☐ Sediment ☐ Soil ☐ Ground ☐ Surface ☐ Potable ☐ NPDES Water ☐ Other: Vapor - Air bags

Analyses Requested / Preservation Codes

For Lab Use Only: SF #: _____ SCR #: _____

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Sediment	Ground	Surface	Potable	NPDES	Vapor - Air bags	Total # of Containers	BTEX C1-C4 Hydrocarbons >C4 - C10 Hydrocarbons (EPA 18 / 25)	Remarks
TPE Vapor	4-7-16	1300	X							X	2	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report* #.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	4-8-16	0830	Denise Woodring	4-8-16	0830
Denise Woodring	4-8-16	11:00	[illegible]	4-8-16	11:00
[illegible]	4-8-16	1620			
			[illegible]	4/8/16	1620

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt N/A °C

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 142241

Group Number(s): 1648859

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	04/08/2016 16:20
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	Yes
Missing Samples:	No	Air Quality Flow Controllers Present:	No
Extra Samples:	No	Air Quality Returns:	No
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 17:03 on 04/08/2016

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: April 19, 2016

Project: NRG PRGS

Submittal Date: 04/08/2016
Group Number: 1648921
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Effluent Grab Groundwater	8325634
Effluent Grab Groundwater	8325635
Post OWS Grab Groundwater	8325636
P&T Influent Grab Groundwater	8325637
TPE Influent Grab Groundwater	8325638

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

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

Electronic Copy To GES, Inc.-MD Attn: Anne Ashley Bell
Electronic Copy To GES, Inc.-MD Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: May 26, 2016

Project: NRG PRGS

Submittal Date: 05/06/2016
Group Number: 1658303
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Effluent Grab Groundwater	8369925
Post OWS Grab Groundwater	8369926
P&T Influent Grab Groundwater	8369927
TPE Influent Grab Groundwater	8369928

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

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Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8369925
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 11:30 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-1

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 624**		**ug/l**		**ug/l**	
10371	Acrolein	107-02-8	N.D.		5	1
10371	Acrylonitrile	107-13-1	N.D.		0.5	1
10371	Benzene	71-43-2	N.D.		0.5	1
10371	Bromodichloromethane	75-27-4	N.D.		0.5	1
10371	Bromoform	75-25-2	N.D.		0.5	1
10371	Bromomethane	74-83-9	N.D.		0.5	1
10371	Carbon Tetrachloride	56-23-5	N.D.		0.5	1
10371	Chlorobenzene	108-90-7	N.D.		0.5	1
10371	Chloroethane	75-00-3	N.D.		0.5	1
10371	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		0.5	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10371	Chloroform	67-66-3	N.D.		0.5	1
10371	Chloromethane	74-87-3	N.D.		0.5	1
10371	Dibromochloromethane	124-48-1	N.D.		0.5	1
10371	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10371	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10371	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10371	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10371	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10371	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10371	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10371	Ethylbenzene	100-41-4	N.D.		0.5	1
10371	Methylene Chloride	75-09-2	N.D.		0.5	1
10371	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10371	Tetrachloroethene	127-18-4	1	J	0.5	1
10371	Toluene	108-88-3	N.D.		0.5	1
10371	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10371	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10371	Trichloroethene	79-01-6	N.D.		0.5	1
10371	Vinyl Chloride	75-01-4	N.D.		0.5	1
GC/MS Semivolatiles	**EPA 625**		**ug/l**		**ug/l**	
10334	Acenaphthene	83-32-9	0.7	J	0.3	1
10334	Acenaphthylene	208-96-8	N.D.		0.3	1
10334	Anthracene	120-12-7	N.D.		0.2	1
10334	Benzidine	92-87-5	N.D.		19	1
10334	Benzo(a)anthracene	56-55-3	N.D.		0.2	1
10334	Benzo(a)pyrene	50-32-8	N.D.		0.3	1
10334	Benzo(b)fluoranthene	205-99-2	N.D.		0.3	1
10334	Benzo(g,h,i)perylene	191-24-2	N.D.		0.2	1
10334	Benzo(k)fluoranthene	207-08-9	N.D.		0.3	1
10334	4-Bromophenyl-phenylether	101-55-3	N.D.		0.3	1
10334	Butylbenzylphthalate	85-68-7	N.D.		0.8	1
10334	Di-n-butylphthalate	84-74-2	2	J	0.5	1
10334	4-Chloro-3-methylphenol	59-50-7	N.D.		0.3	1
10334	bis(2-Chloroethoxy)methane	111-91-1	N.D.		0.5	1
10334	bis(2-Chloroethyl)ether	111-44-4	N.D.		0.4	1
10334	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.		0.3	1

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8369925
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 11:30 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-1

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 625**		**ug/l**		**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10334	2-Chloronaphthalene	91-58-7	N.D.		0.2	1
10334	2-Chlorophenol	95-57-8	N.D.		0.3	1
10334	4-Chlorophenyl-phenylether	7005-72-3	N.D.		0.3	1
10334	Chrysene	218-01-9	N.D.		0.2	1
10334	Dibenz(a,h)anthracene	53-70-3	N.D.		0.4	1
10334	1,2-Dichlorobenzene	95-50-1	N.D.		0.3	1
10334	1,3-Dichlorobenzene	541-73-1	N.D.		0.3	1
10334	1,4-Dichlorobenzene	106-46-7	N.D.		0.3	1
10334	3,3'-Dichlorobenzidine	91-94-1	N.D.		0.8	1
10334	2,4-Dichlorophenol	120-83-2	N.D.		0.3	1
10334	Diethylphthalate	84-66-2	N.D.		0.3	1
10334	2,4-Dimethylphenol	105-67-9	N.D.		0.3	1
10334	Dimethylphthalate	131-11-3	N.D.		1	1
10334	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		4	1
10334	2,4-Dinitrophenol	51-28-5	N.D.		10	1
10334	2,4-Dinitrotoluene	121-14-2	N.D.		0.4	1
10334	2,6-Dinitrotoluene	606-20-2	N.D.		0.3	1
10334	1,2-Diphenylhydrazine	122-66-7	N.D.		0.2	1
10334	bis(2-Ethylhexyl)phthalate	117-81-7	3	J	1	1
10334	Fluoranthene	206-44-0	N.D.		0.3	1
10334	Fluorene	86-73-7	0.4	J	0.3	1
10334	Hexachlorobenzene	118-74-1	N.D.		1	1
10334	Hexachlorobutadiene	87-68-3	N.D.		0.8	1
10334	Hexachlorocyclopentadiene	77-47-4	N.D.		2	1
10334	Hexachloroethane	67-72-1	N.D.		0.4	1
10334	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.3	1
10334	Isophorone	78-59-1	N.D.		0.3	1
10334	Naphthalene	91-20-3	N.D.		0.2	1
10334	Nitrobenzene	98-95-3	N.D.		0.5	1
10334	2-Nitrophenol	88-75-5	N.D.		0.4	1
10334	4-Nitrophenol	100-02-7	N.D.		5	1
10334	N-Nitrosodimethylamine	62-75-9	N.D.		2	1
10334	N-Nitroso-di-n-propylamine	621-64-7	N.D.		0.4	1
10334	N-Nitrosodiphenylamine	86-30-6	N.D.		0.3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10334	Di-n-octylphthalate	117-84-0	N.D.		0.5	1
10334	Pentachlorophenol	87-86-5	N.D.		3	1
10334	Phenanthrene	85-01-8	N.D.		0.2	1
10334	Phenol	108-95-2	N.D.		0.4	1
10334	Pyrene	129-00-0	0.6	J	0.2	1
10334	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.3	1
10334	2,4,6-Trichlorophenol	88-06-2	N.D.		0.7	1
Pesticides/PCBs	**EPA 608**		**ug/l**		**ug/l**	
07572	Aldrin	309-00-2	0.0062	J	0.0016	1

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8369925
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 11:30 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Pesticides/PCBs	**EPA 608**		**ug/l**	**ug/l**	
07572	Alpha BHC	319-84-6	0.012	0.0026	1
07572	Beta BHC	319-85-7	0.054	0.0040	1
07572	Gamma BHC - Lindane	58-89-9	N.D.	0.0021	1
07572	Chlordane	57-74-9	N.D.	0.066	1
07572	p,p-DDD	72-54-8	0.014 J	0.0044	1
07572	p,p-DDE	72-55-9	N.D.	0.0041	1
07572	p,p-DDT	50-29-3	N.D.	0.0043	1
07572	Delta BHC	319-86-8	N.D.	0.0031	1
07572	Dieldrin	60-57-1	0.0049 J	0.0042	1
07572	Endosulfan I	959-98-8	N.D.	0.0042	1
07572	Endosulfan II	33213-65-9	N.D.	0.0091	1
07572	Endosulfan Sulfate	1031-07-8	N.D.	0.0041	1
07572	Endrin	72-20-8	N.D.	0.024	1
07572	Endrin Aldehyde	7421-93-4	N.D.	0.016	1
07572	Heptachlor	76-44-8	N.D.	0.0021	1
07572	Heptachlor Epoxide	1024-57-3	N.D.	0.0021	1
06030	PCB-1016	12674-11-2	N.D.	0.082	1
06030	PCB-1221	11104-28-2	N.D.	0.082	1
06030	PCB-1232	11141-16-5	N.D.	0.082	1
06030	PCB-1242	53469-21-9	N.D.	0.082	1
06030	PCB-1248	12672-29-6	N.D.	0.082	1
06030	PCB-1254	11097-69-1	N.D.	0.082	1
06030	PCB-1260	11096-82-5	N.D.	0.12	1
06030	Total PCBs	1336-36-3	N.D.	0.082	1
07572	Toxaphene	8001-35-2	N.D.	0.25	1
	Reporting limits were raised due to interference from the sample matrix.				
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,000	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0078	1
07049	Cadmium	7440-43-9	N.D.	0.00064	1
07051	Chromium	7440-47-3	0.0054 J	0.0020	1
07053	Copper	7440-50-8	0.0132	0.0032	1
07055	Lead	7439-92-1	N.D.	0.0051	1
07060	Molybdenum	7439-98-7	N.D.	0.0021	1
07061	Nickel	7440-02-0	0.0336	0.0025	1
07066	Silver	7440-22-4	N.D.	0.0018	1
07072	Zinc	7440-66-6	0.0261	0.0042	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1
Wet Chemistry	**EPA 335.4**		**mg/l**	**mg/l**	
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	1
	EPA 1664A		**mg/l**	**mg/l**	

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Analysis Report

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8369925
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 11:30 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-1

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8369925
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 11:30 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-1

CAT No.	Analysis Name	CAS Number	Result		EDL	Dilution Factor
Dioxins/Furans	**EPA 1613B October 1994**		**pg/l**		**pg/l**	
10915	2378-TCDD	1746-01-6	0.830	JBQ	0.439	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	68	25 - 164

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

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Analysis Report

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8369925
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 11:30 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10371	TTO VOCs 624	EPA 624	1	U161291AA	05/08/2016	12:18	Jason M Long	1
10334	Method 625	EPA 625	1	16132WAH625	05/17/2016	21:28	Linda M Hartenstine	1
08108	625 Water Extraction	EPA 625	2	16132WAH625	05/11/2016	19:15	Nicholas W Shroyer	1
06030	PCBs w/ OC Pests 608	EPA 608	1	161280026A	05/11/2016	02:06	Kirby B Turner	1
07572	Pests (Charged with PCBs 608)	EPA 608	1	161280027A	05/25/2016	21:17	Jamie L Brillhart	1
11960	Method 608 PCB Water Ext.	EPA 608	1	161280026A	05/09/2016	15:45	Ryan A Schafran	1
10241	Method 608 Water Extraction	EPA 608	1	161280027A	05/09/2016	15:45	Ryan A Schafran	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161330019A	05/14/2016	00:08	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161330019A	05/13/2016	06:50	Maria Davenport	1
10915	Dioxins/Furans in Water - 1613	EPA 1613B October 1994	1	16133004	05/13/2016	04:31	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B October 1994	1	16133004	05/12/2016	14:50	Alex L Barton	1
07035	Arsenic	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
07049	Cadmium	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
07051	Chromium	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
07053	Copper	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
07055	Lead	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
07061	Nickel	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
07066	Silver	SW-846 6010B	1	161301848005	05/12/2016	14:05	Eric L Eby	1
07072	Zinc	SW-846 6010B	1	161301848005	05/11/2016	15:31	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	161305713006	05/11/2016	18:11	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161301848005	05/11/2016	07:50	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	161305713006	05/11/2016	09:10	Lisa J Cooke	1
00237	Total Cyanide (water)	EPA 335.4	1	16134102101A	05/17/2016	12:10	Dein K Bernot	1
00492	Cyanide Water Distillation	EPA 335.4	1	16134102101A	05/13/2016	07:30	Nancy J Shoop	1
08079	HEM (oil & grease)	EPA 1664A	1	16131807901A	05/10/2016	00:37	Cassandra N Morgan	1

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Analysis Report

Sample Description: Post OWS Grab Groundwater
NRG PRGS

LL Sample # WW 8369926
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 11:50 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-2

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	4,100		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	2.6	J	1.4	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161330019A	05/14/2016 00:31	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161330019A	05/13/2016 06:50	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664A	1	16131807901A	05/10/2016 00:37	Cassandra N Morgan	1

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Analysis Report

Sample Description: P&T Influent Grab Groundwater NRG PRGS

LL Sample # WW 8369927
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 12:00 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NPG-3

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,800	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161330019A	05/14/2016 01:41	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161330019A	05/13/2016 06:50	Maria Davenport	1

Sample Description: TPE Influent Grab Groundwater NRG PRGS

LL Sample # WW 8369928
LL Group # 1658303
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 12:10 by JP

Submitted: 05/06/2016 16:38
Reported: 05/26/2016 11:21

GES, Inc.
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Odenton MD 21113

NPG-4

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	69,000	45	2

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161330019A	05/17/2016 01:04	Christine E Dolman	2
12059	Microextraction - DRO (waters)	SW-846 3511	1	161330019A	05/13/2016 06:50	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

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

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

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: U161291AA	Sample number(s): 8369925	
Acrolein	N.D.	5
Acrylonitrile	N.D.	0.5
Benzene	N.D.	0.5
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
2-Chloroethyl Vinyl Ether	N.D.	0.5
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
Dibromochloromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methylene Chloride	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5
Vinyl Chloride	N.D.	0.5
Batch number: 16132WAH625	Sample number(s): 8369925	
Acenaphthene	N.D.	0.3
Acenaphthylene	N.D.	0.3
Anthracene	N.D.	0.2
Benzidine	N.D.	20
Benzo(a)anthracene	N.D.	0.2
Benzo(a)pyrene	N.D.	0.3
Benzo(b)fluoranthene	N.D.	0.3
Benzo(g,h,i)perylene	N.D.	0.2
Benzo(k)fluoranthene	N.D.	0.3
4-Bromophenyl-phenylether	N.D.	0.3
Butylbenzylphthalate	N.D.	0.8
Di-n-butylphthalate	N.D.	0.5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

Method Blank (continued)

Analysis Name	Result ug/l	MDL ug/l
4-Chloro-3-methylphenol	N.D.	0.3
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.4
bis(2-Chloroisopropyl)ether	N.D.	0.3
2-Chloronaphthalene	N.D.	0.2
2-Chlorophenol	N.D.	0.3
4-Chlorophenyl-phenylether	N.D.	0.3
Chrysene	N.D.	0.2
Dibenz(a,h)anthracene	N.D.	0.4
1,2-Dichlorobenzene	N.D.	0.3
1,3-Dichlorobenzene	N.D.	0.3
1,4-Dichlorobenzene	N.D.	0.3
3,3'-Dichlorobenzidine	N.D.	0.8
2,4-Dichlorophenol	N.D.	0.3
Diethylphthalate	N.D.	0.3
2,4-Dimethylphenol	N.D.	0.3
Dimethylphthalate	N.D.	1
4,6-Dinitro-2-methylphenol	N.D.	4
2,4-Dinitrophenol	N.D.	10
2,4-Dinitrotoluene	N.D.	0.4
2,6-Dinitrotoluene	N.D.	0.3
1,2-Diphenylhydrazine	N.D.	0.2
bis(2-Ethylhexyl)phthalate	N.D.	1
Fluoranthene	N.D.	0.3
Fluorene	N.D.	0.3
Hexachlorobenzene	N.D.	1
Hexachlorobutadiene	N.D.	0.8
Hexachlorocyclopentadiene	N.D.	2
Hexachloroethane	N.D.	0.4
Indeno(1,2,3-cd)pyrene	N.D.	0.3
Isophorone	N.D.	0.3
Naphthalene	N.D.	0.2
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	0.4
4-Nitrophenol	N.D.	5
N-Nitrosodimethylamine	N.D.	2
N-Nitroso-di-n-propylamine	N.D.	0.4
N-Nitrosodiphenylamine	N.D.	0.3
Di-n-octylphthalate	N.D.	0.5
Pentachlorophenol	N.D.	3
Phenanthrene	N.D.	0.2
Phenol	N.D.	0.4
Pyrene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.3
2,4,6-Trichlorophenol	N.D.	0.7
Batch number: 161280026A	Sample number(s): 8369925	
PCB-1016	N.D.	0.080
PCB-1221	N.D.	0.080
PCB-1232	N.D.	0.080
PCB-1242	N.D.	0.080
PCB-1248	N.D.	0.080

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
PCB-1254	N.D.	0.080
PCB-1260	N.D.	0.12
Total PCBs	N.D.	0.080
Batch number: 161280027A	Sample number(s): 8369925	
Aldrin	N.D.	0.0016
Alpha BHC	N.D.	0.0026
Beta BHC	N.D.	0.0039
Gamma BHC - Lindane	N.D.	0.0020
Chlordane	N.D.	0.064
p,p-DDD	N.D.	0.0042
p,p-DDE	N.D.	0.0040
p,p-DDT	N.D.	0.0042
Delta BHC	N.D.	0.0030
Dieldrin	N.D.	0.0041
Endosulfan I	N.D.	0.0041
Endosulfan II	N.D.	0.0088
Endosulfan Sulfate	N.D.	0.0040
Endrin	N.D.	0.0056
Endrin Aldehyde	N.D.	0.016
Heptachlor	N.D.	0.0021
Heptachlor Epoxide	N.D.	0.0021
Toxaphene	N.D.	0.24
Batch number: 161330019A	Sample number(s): 8369925-8369928	
DRO C10-C28	N.D.	45
	mg/l	mg/l
Batch number: 161301848005	Sample number(s): 8369925	
Arsenic	N.D.	0.0078
Cadmium	N.D.	0.00064
Chromium	N.D.	0.0020
Copper	N.D.	0.0032
Lead	N.D.	0.0051
Molybdenum	N.D.	0.0021
Nickel	N.D.	0.0025
Silver	N.D.	0.0018
Zinc	N.D.	0.0042
Batch number: 161305713006	Sample number(s): 8369925	
Mercury	N.D.	0.000050
Batch number: 16134102101A	Sample number(s): 8369925	
Total Cyanide (water)	N.D.	0.0050
Batch number: 16131807901A	Sample number(s): 8369925-8369926	
HEM (oil & grease)	N.D.	1.4
Analysis Name	**Result**	**EDL**
	pg/l	pg/l
Batch number: 16133004	Sample number(s): 8369925	
2378-TCDD	0.347 J	0.256

*- Outside of specification
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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: U161291AA	Sample number(s): 8369925								
Acrolein	150	125.61			84		60-120		
Acrylonitrile	100	80.9			81		61-120		
Benzene	20	21.38			107		80-120		
Bromodichloromethane	20	20.98			105		77-120		
Bromoform	20	21.76			109		66-125		
Bromomethane	20	21.63			108		69-120		
Carbon Tetrachloride	20	20.51			103		72-128		
Chlorobenzene	20	21.14			106		80-120		
Chloroethane	20	20.79			104		65-120		
2-Chloroethyl Vinyl Ether	20	18.44			92		54-133		
Chloroform	20	19.88			99		80-120		
Chloromethane	20	20.9			105		64-120		
Dibromochloromethane	20	21.16			106		78-120		
1,1-Dichloroethane	20	18.92			95		75-123		
1,2-Dichloroethane	20	20.16			101		74-120		
1,1-Dichloroethene	20	18.55			93		69-122		
trans-1,2-Dichloroethene	20	19.71			99		80-125		
1,2-Dichloropropane	20	21.87			109		80-120		
cis-1,3-Dichloropropene	20	20.39			102		80-120		
trans-1,3-Dichloropropene	20	20.63			103		80-120		
Ethylbenzene	20	21.04			105		80-120		
Methylene Chloride	20	18.93			95		75-120		
1,1,2,2-Tetrachloroethane	20	22.45			112		80-120		
Tetrachloroethene	20	21.65			108		77-122		
Toluene	20	21.02			105		80-120		
1,1,1-Trichloroethane	20	20.49			102		72-120		
1,1,2-Trichloroethane	20	21.62			108		80-120		
Trichloroethene	20	21.54			108		80-120		
Vinyl Chloride	20	21.57			108		68-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16132WAH625	Sample number(s): 8369925								
Acenaphthene	50	49.34	50	52.2	99	104	71-118	6	30
Acenaphthylene	50	45.52	50	49.98	91	100	70-121	9	30
Anthracene	50	48.44	50	48.68	97	97	80-114	0	30
Benzidine	250	164.31	250	162.05	66	65	21-107	1	30
Benzo(a)anthracene	50	47.95	50	49.27	96	99	76-117	3	30
Benzo(a)pyrene	50	46.98	50	44.49	94	89	76-112	5	30
Benzo(b)fluoranthene	50	47.3	50	45.41	95	91	80-120	4	30
Benzo(g,h,i)perylene	50	51.95	50	51.17	104	102	76-120	2	30
Benzo(k)fluoranthene	50	47.63	50	47.4	95	95	75-121	1	30
4-Bromophenyl-phenylether	50	49.35	50	51.89	99	104	75-118	5	30
Butylbenzylphthalate	50	49.9	50	51.28	100	103	80-125	3	30
Di-n-butylphthalate	50	47.98	50	49.02	96	98	77-116	2	30
4-Chloro-3-methylphenol	50	45.99	50	48.19	92	96	72-116	5	30
bis(2-Chloroethoxy)methane	50	48.6	50	48.25	97	96	67-122	1	30

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	50	49.45	50	49.42	99	99	74-111	0	30
bis(2-Chloroisopropyl)ether	50	47.25	50	47.06	94	94	74-116	0	30
2-Chloronaphthalene	50	53.73	50	55.83	107	112	41-144	4	30
2-Chlorophenol	50	49.27	50	52.26	99	105	68-117	6	30
4-Chlorophenyl-phenylether	50	45.63	50	48.25	91	96	76-115	6	30
Chrysene	50	50.41	50	53.27	101	107	81-118	6	30
Dibenz(a,h)anthracene	50	48.03	50	46.81	96	94	77-119	3	30
1,2-Dichlorobenzene	50	32.4	50	35.33	65	71	32-111	9	30
1,3-Dichlorobenzene	50	31.81	50	32.88	64	66	24-107	3	30
1,4-Dichlorobenzene	50	31.75	50	33.04	64	66	26-108	4	30
3,3'-Dichlorobenzidine	50	39.25	50	33.51	78	67	10-103	16	30
2,4-Dichlorophenol	50	49.98	50	52.52	100	105	79-114	5	30
Diethylphthalate	50	46.5	50	49.32	93	99	39-137	6	30
2,4-Dimethylphenol	50	42.6	50	41.18	85	82	72-110	3	30
Dimethylphthalate	50	45.38	50	46.38	91	93	33-136	2	30
4,6-Dinitro-2-methylphenol	50	48.49	50	49.15	97	98	74-120	1	30
2,4-Dinitrophenol	100	89.73	100	95.39	90	95	50-128	6	30
2,4-Dinitrotoluene	50	47.69	50	51.05	95	102	85-117	7	30
2,6-Dinitrotoluene	50	48.55	50	50.64	97	101	80-115	4	30
1,2-Diphenylhydrazine	50	49.73	50	51.58	99	103	73-119	4	30
bis(2-Ethylhexyl)phthalate	50	48.14	50	50.24	96	100	77-118	4	30
Fluoranthene	50	44.72	50	45.31	89	91	77-111	1	30
Fluorene	50	47.48	50	49.82	95	100	80-116	5	30
Hexachlorobenzene	50	47.04	50	49.46	94	99	75-116	5	30
Hexachlorobutadiene	50	30.16	50	32.11	60	64	11-113	6	30
Hexachlorocyclopentadiene	100	25.99	100	33.04	26	33	24-128	24	30
Hexachloroethane	50	29.41	50	29.27	59	59	11-105	0	30
Indeno(1,2,3-cd)pyrene	50	47.44	50	47.79	95	96	76-115	1	30
Isophorone	50	47.78	50	49.5	96	99	78-120	4	30
Naphthalene	50	39.35	50	40.29	79	81	52-115	2	30
Nitrobenzene	50	45.95	50	47.75	92	95	73-113	4	30
2-Nitrophenol	50	47.45	50	48.28	95	97	83-109	2	30
4-Nitrophenol	50	21.42	50	21.59	43	43	10-83	1	30
N-Nitrosodimethylamine	50	29.94	50	29.63	60	59	28-81	1	30
N-Nitroso-di-n-propylamine	50	47.81	50	47.71	96	95	78-110	0	30
N-Nitrosodiphenylamine	50	48.39	50	50.14	97	100	77-116	4	30
Di-n-octylphthalate	50	48.19	50	46.75	96	93	79-125	3	30
Pentachlorophenol	50	46.02	50	50.22	92	100	57-116	9	30
Phenanthrene	50	47.81	50	49.59	96	99	78-112	4	30
Phenol	50	23.11	50	21.55	46	43	14-69	7	30
Pyrene	50	47.05	50	49.71	94	99	78-117	5	30
1,2,4-Trichlorobenzene	50	34.84	50	37.92	70	76	31-118	8	30
2,4,6-Trichlorophenol	50	48.05	50	53.55	96	107	83-120	11	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161280026A	Sample number(s): 8369925								
PCB-1016	5.05	4.12	5.05	4.14	82	82	60-117	1	30
PCB-1260	5.04	4.06	5.04	4.22	81	84	57-134	4	30
Batch number: 161280027A	Sample number(s): 8369925								

*- Outside of specification
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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aldrin	0.102	0.0812	0.102	0.0804	80	79	28-119	1	30
Alpha BHC	0.0980	0.0957	0.0980	0.0957	98	98	47-132	0	30
Beta BHC	0.102	0.0868	0.102	0.0882	85	86	56-125	2	30
Gamma BHC - Lindane	0.0980	0.0912	0.0980	0.0930	93	95	51-132	2	30
p,p-DDD	0.198	0.192	0.198	0.203	97	102	53-131	6	30
p,p-DDE	0.204	0.190	0.204	0.194	93	95	51-129	2	30
p,p-DDT	0.198	0.194	0.198	0.200	98	101	42-136	3	30
Delta BHC	0.102	0.0921	0.102	0.0945	90	93	57-131	3	30
Dieldrin	0.198	0.193	0.198	0.202	97	102	54-126	5	30
Endosulfan I	0.0980	0.0951	0.0980	0.0978	97	100	51-118	3	30
Endosulfan II	0.203	0.188	0.203	0.198	93	97	54-124	5	30
Endosulfan Sulfate	0.201	0.193	0.201	0.199	96	99	41-133	3	30
Endrin	0.202	0.210	0.202	0.217	104	108	35-143	3	30
Endrin Aldehyde	0.207	0.176	0.207	0.180	85	87	40-135	3	30
Heptachlor	0.0980	0.0862	0.0980	0.0834	88	85	38-111	3	30
Heptachlor Epoxide	0.102	0.0952	0.102	0.0985	93	97	56-132	3	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161330019A	Sample number(s): 8369925-8369928								
DRO C10-C28	2650	2221.62	2630	2153.36	84	82	69-115	3	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 161301848005	Sample number(s): 8369925								
Arsenic	0.150	0.141			94		80-120		
Cadmium	0.0500	0.0476			95		80-120		
Chromium	0.200	0.187			93		80-120		
Copper	0.250	0.241			96		80-120		
Lead	0.150	0.140			94		80-120		
Molybdenum	2.00	1.90			95		80-120		
Nickel	0.500	0.477			95		80-120		
Silver	0.0500	0.0440			88		80-120		
Zinc	0.500	0.464			93		80-120		
Batch number: 161305713006	Sample number(s): 8369925								
Mercury	0.00100	0.00117			117		80-120		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16134102101A	Sample number(s): 8369925								
Total Cyanide (water)	0.200	0.197			99		90-110		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 16131807901A	Sample number(s): 8369925-8369926								
HEM (oil & grease)	40	38.3	40	37.6	96	94	78-114	2	11

Analysis Name	OPR Spike Added pg/l	OPR Conc pg/l	OPRD Spike Added pg/l	OPRD Conc pg/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 16133004	Sample number(s): 8369925								
2378-TCDD	200	194.21			97		67-158		

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Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: U161291AA	Sample number(s): 8369925 UNSPK: P361618									
Acrolein	N.D.	150	130.11	150	130.39	87	87	60-120	0	30
Acrylonitrile	N.D.	100	82.61	100	83.82	83	84	61-120	1	30
Benzene	N.D.	20	24.06	20	24.13	120	121*	80-120	0	30
Bromodichloromethane	N.D.	20	22.81	20	23.2	114	116	77-120	2	30
Bromoform	N.D.	20	22.38	20	22.26	112	111	66-125	1	30
Bromomethane	N.D.	20	23.36	20	23.27	117	116	69-120	0	30
Carbon Tetrachloride	N.D.	20	24.6	20	24.14	123	121	72-128	2	30
Chlorobenzene	N.D.	20	23.98	20	23.71	120	119	80-120	1	30
Chloroethane	N.D.	20	22.76	20	22.33	114	112	65-120	2	30
2-Chloroethyl Vinyl Ether	N.D.	20	N.D.	20	N.D.	0*	0*	54-133	0	30
Chloroform	N.D.	20	22.62	20	22.65	113	113	80-120	0	30
Chloromethane	N.D.	20	23.07	20	23.02	115	115	64-120	0	30
Dibromochloromethane	N.D.	20	22.41	20	22.73	112	114	78-120	1	30
1,1-Dichloroethane	N.D.	20	21.84	20	21.36	109	107	75-123	2	30
1,2-Dichloroethane	N.D.	20	21.37	20	21.66	107	108	74-120	1	30
1,1-Dichloroethene	N.D.	20	22.37	20	21.86	112	109	69-122	2	30
trans-1,2-Dichloroethene	N.D.	20	23.04	20	22.48	115	112	80-125	2	30
1,2-Dichloropropane	N.D.	20	24.03	20	24.31	120	122*	80-120	1	30
cis-1,3-Dichloropropene	N.D.	20	21.51	20	21.81	108	109	80-120	1	30
trans-1,3-Dichloropropene	N.D.	20	22.03	20	22.38	110	112	80-120	2	30
Ethylbenzene	N.D.	20	24.18	20	23.59	121*	118	80-120	3	30
Methylene Chloride	N.D.	20	21.25	20	21.12	106	106	75-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	20	22.96	20	23.77	115	119	80-120	3	30
Tetrachloroethene	N.D.	20	25.09	20	24.62	125*	123*	77-122	2	30
Toluene	N.D.	20	24.17	20	23.74	121*	119	80-120	2	30
1,1,1-Trichloroethane	N.D.	20	23.74	20	23.83	119	119	72-120	0	30
1,1,2-Trichloroethane	N.D.	20	23.16	20	23.02	116	115	80-120	1	30
Trichloroethene	N.D.	20	24.51	20	24.47	123*	122*	80-120	0	30
Vinyl Chloride	N.D.	20	23.66	20	23.68	118	118	68-120	0	30
	mg/l	**mg/l**	**mg/l**	**mg/l**	**mg/l**					
Batch number: 161301848005	Sample number(s): 8369925 UNSPK: 8369925									
Arsenic	N.D.	0.150	0.146	0.150	0.144	98	96	75-125	2	20
Cadmium	N.D.	0.0500	0.0483	0.0500	0.0468	97	94	75-125	3	20
Chromium	0.00540	0.200	0.193	0.200	0.185	94	90	75-125	4	20
Copper	0.0132	0.250	0.257	0.250	0.250	97	95	75-125	3	20
Lead	N.D.	0.150	0.136	0.150	0.135	91	90	75-125	1	20
Molybdenum	N.D.	2.00	1.98	2.00	1.90	99	95	75-125	4	20
Nickel	0.0336	0.500	0.502	0.500	0.489	94	91	75-125	3	20
Silver	N.D.	0.0500	0.0452	0.0500	0.0428	90	86	75-125	5	20
Zinc	0.0261	0.500	0.505	0.500	0.491	96	93	75-125	3	20
Batch number: 161305713006	Sample number(s): 8369925 UNSPK: P366730									
Mercury	N.D.	0.00100	0.00115	0.00100	0.00111	115	111	80-120	4	20

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P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

MS/MSD (continued)

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 16134102101A	Sample number(s): 8369925 UNSPK: P369410									
Total Cyanide (water)	N.D.	0.200	0.184			92		90-110		
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16131807901A	Sample number(s): 8369925-8369926 UNSPK: P367221									
HEM (oil & grease)	1.63	43	35.27			78		78-114		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 161301848005	Sample number(s): 8369925 BKG: 8369925			
Arsenic	N.D.	N.D.	0 (1)	20
Cadmium	N.D.	N.D.	0 (1)	20
Chromium	0.00540	0.00539	0 (1)	20
Copper	0.0132	0.0141	6 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Molybdenum	N.D.	N.D.	0 (1)	20
Nickel	0.0336	0.0338	1 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Zinc	0.0261	0.0266	2 (1)	20
Batch number: 161305713006	Sample number(s): 8369925 BKG: P366730			
Mercury	N.D.	N.D.	0 (1)	20
	mg/l	mg/l		
Batch number: 16134102101A	Sample number(s): 8369925 BKG: P369410			
Total Cyanide (water)	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: TTO VOCs 624
Batch number: U161291AA

	1,2-Dichloroethane-d4	Fluorobenzene	4-Bromofluorobenzene
8369925	98	100	95
Blank	95	99	89
LCS	95	102	94
MS	97	104	95

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(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

Surrogate Quality Control

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

	1,2-Dichloroethane-d4	Fluorobenzene	4-Bromofluorobenzene
MSD	97	102	95
Limits:	78-118	88-107	80-118

Analysis Name: Method 625
Batch number: 16132WAH625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol
8369925	97	102	76	9*	17	41
Blank	92	83	97	31	52	94
LCS	88	92	91	40	57	89
LCSD	95	102	101	38	61	103
Limits:	60-119	62-116	55-124	10-75	10-105	11-154

Analysis Name: PCBs w/ OC Pests 608
Batch number: 161280026A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8369925	82	95
Blank	97	103
LCS	88	63
LCSD	96	76
Limits:	33-137	10-148

Analysis Name: Pests (Charged with PCBs 608)
Batch number: 161280027A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8369925	97	60
Blank	60	93
LCS	77	101
LCSD	74	104
Limits:	29-129	32-149

Analysis Name: DRO micro-ext 8015B
Batch number: 161330019A

	Orthoterphenyl
8369925	108
8369926	107
8369927	114
8369928	195*
Blank	105
LCS	103
LCSD	95
Limits:	42-160

Analysis Name: Dioxins/Furans in Water - 1613
Batch number: 16133004

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/26/2016 11:21

Group Number: 1658303

Surrogate Quality Control (continued)

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

	13C12-2378-TCDD
8369925	68
Blank	76
OPR	61
Limits:	25-164

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1658303 Sample # 8369925-28

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell	P.O. #:
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #:
State where sample(s) were collected: 1400 North Royal St, Alexandria, VA	

For Lab Use Only
SF #: _____
SCR #: _____

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Matrix: Water (Potable / Ground / NPDES / Surface)	Matrix: Other:	Total # of Containers	Oil & Grease (EPA 1664A)	VOCs (EPA 624)	SVOCs (EPA 625, PPL list)	Pesticides & PCBs (EPA 608)	2,3,7,8-Tetrachlorodibenzo-p-dioxin Analysis (EPA 1613)	Metals (6010B) (Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Silver, Zinc)	Mercury (7470A)	Total Cyanide (EPA 335.4)	TPH-DRO (EPA 8015B)		Remarks
Preservation Codes									H	-	-	-	-	N	N	B	H	-	
Effluent	5-5-16	1130	X			X		15	X	X	X	X	X	X	X	X	X		
Post OWS	5-5-16	1150	X			X		4	X								X		
P&T Influent	5-5-16	1200	X			X		2	~~X~~ JP								X		
TPE Influent	5-5-16	1210	X			X		2	~~X~~ JP								X		

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-6-16	0800	Denise Woodring	5-6-16	0800
Denise Woodring	5-6-16	1125	[illegible]	5-6-16	1125
[illegible]	5-6-16	1638			
			[illegible]	5/6/16	1638

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.4-0.9 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 145719

Group Number(s): 1658303

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/06/2016 16:38
Number of Packages:	4	Number of Projects:	6
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 22:04 on 05/06/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.8	DT	Wet	Y	Loose	N
2	DT121	0.9	DT	Wet	Y	Loose	N
3	DT121	0.4	DT	Wet	Y	Bagged	N
4	DT121	0.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8325634
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:00 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGE-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 624**		**ug/l**	**ug/l**	
10371	Acrolein	107-02-8	N.D.	5	1
10371	Acrylonitrile	107-13-1	N.D.	0.5	1
10371	Benzene	71-43-2	0.9 J	0.5	1
10371	Bromodichloromethane	75-27-4	N.D.	0.5	1
10371	Bromoform	75-25-2	N.D.	0.5	1
10371	Bromomethane	74-83-9	N.D.	0.5	1
10371	Carbon Tetrachloride	56-23-5	N.D.	0.5	1
10371	Chlorobenzene	108-90-7	N.D.	0.5	1
10371	Chloroethane	75-00-3	N.D.	0.5	1
10371	2-Chloroethyl Vinyl Ether	110-75-8	N.D.	0.5	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.				
10371	Chloroform	67-66-3	N.D.	0.5	1
10371	Chloromethane	74-87-3	N.D.	0.5	1
10371	Dibromochloromethane	124-48-1	N.D.	0.5	1
10371	1,1-Dichloroethane	75-34-3	N.D.	0.5	1
10371	1,2-Dichloroethane	107-06-2	N.D.	0.5	1
10371	1,1-Dichloroethene	75-35-4	N.D.	0.5	1
10371	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	1
10371	1,2-Dichloropropane	78-87-5	N.D.	0.5	1
10371	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	1
10371	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	1
10371	Ethylbenzene	100-41-4	1 J	0.5	1
10371	Methylene Chloride	75-09-2	N.D.	0.5	1
10371	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	1
10371	Tetrachloroethene	127-18-4	N.D.	0.5	1
10371	Toluene	108-88-3	N.D.	0.5	1
10371	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	1
10371	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	1
10371	Trichloroethene	79-01-6	N.D.	0.5	1
10371	Vinyl Chloride	75-01-4	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,500	45	1
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0078	1
07049	Cadmium	7440-43-9	N.D.	0.00064	1
07051	Chromium	7440-47-3	0.0021 J	0.0020	1
07053	Copper	7440-50-8	0.0086 J	0.0032	1
07055	Lead	7439-92-1	N.D.	0.0051	1
07060	Molybdenum	7439-98-7	N.D.	0.0021	1
07061	Nickel	7440-02-0	0.0366	0.0025	1
07066	Silver	7440-22-4	N.D.	0.0018	1
07072	Zinc	7440-66-6	0.0432	0.0042	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	N.D.	0.000050	1

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Analysis Report

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8325634
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:00 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGE-

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Wet Chemistry	**EPA 335.4**		**mg/l**	**mg/l**	
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10371	TTO VOCs 624	EPA 624	1	M160991AA	04/08/2016 22:22	Sara E Johnson	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161000017A	04/12/2016 04:07	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161000017A	04/11/2016 08:15	Maria Davenport	1
07035	Arsenic	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07049	Cadmium	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07051	Chromium	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07053	Copper	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07055	Lead	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07060	Molybdenum	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07061	Nickel	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07066	Silver	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
07072	Zinc	SW-846 6010B	1	161021848001	04/12/2016 22:51	Elaine F Stoltzfus	1
00259	Mercury	SW-846 7470A	1	161025713002	04/13/2016 08:16	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161021848001	04/12/2016 10:48	Christopher M Klumpp	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	161025713002	04/12/2016 12:45	Christopher M Klumpp	1
00237	Total Cyanide (water)	EPA 335.4	1	16105102101A	04/15/2016 01:39	Joseph E McKenzie	1
00492	Cyanide Water Distillation	EPA 335.4	1	16105102101A	04/13/2016 10:25	Nancy J Shoop	1
08079	HEM (oil & grease)	EPA 1664A	1	16102807902A	04/11/2016 23:44	Cassandra N Morgan	1

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8325635
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:00 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG-E

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 625**		**ug/l**		**ug/l**	
10334	Acenaphthene	83-32-9	1	J	0.3	1
10334	Acenaphthylene	208-96-8	0.4	J	0.3	1
10334	Anthracene	120-12-7	0.3	J	0.2	1
10334	Benzidine	92-87-5	N.D.		19	1
10334	Benzo(a)anthracene	56-55-3	N.D.		0.2	1
10334	Benzo(a)pyrene	50-32-8	N.D.		0.3	1
10334	Benzo(b)fluoranthene	205-99-2	N.D.		0.3	1
10334	Benzo(g,h,i)perylene	191-24-2	N.D.		0.2	1
10334	Benzo(k)fluoranthene	207-08-9	N.D.		0.3	1
10334	4-Bromophenyl-phenylether	101-55-3	N.D.		0.3	1
10334	Butylbenzylphthalate	85-68-7	N.D.		0.8	1
10334	Di-n-butylphthalate	84-74-2	1	J	0.5	1
10334	4-Chloro-3-methylphenol	59-50-7	N.D.		0.3	1
10334	bis(2-Chloroethoxy)methane	111-91-1	N.D.		0.5	1
10334	bis(2-Chloroethyl)ether	111-44-4	N.D.		0.4	1
10334	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.		0.3	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10334	2-Chloronaphthalene	91-58-7	N.D.		0.2	1
10334	2-Chlorophenol	95-57-8	N.D.		0.3	1
10334	4-Chlorophenyl-phenylether	7005-72-3	N.D.		0.3	1
10334	Chrysene	218-01-9	N.D.		0.2	1
10334	Dibenz(a,h)anthracene	53-70-3	N.D.		0.4	1
10334	1,2-Dichlorobenzene	95-50-1	N.D.		0.3	1
10334	1,3-Dichlorobenzene	541-73-1	N.D.		0.3	1
10334	1,4-Dichlorobenzene	106-46-7	N.D.		0.3	1
10334	3,3'-Dichlorobenzidine	91-94-1	N.D.		0.8	1
10334	2,4-Dichlorophenol	120-83-2	N.D.		0.3	1
10334	Diethylphthalate	84-66-2	N.D.		0.3	1
10334	2,4-Dimethylphenol	105-67-9	N.D.		0.3	1
10334	Dimethylphthalate	131-11-3	N.D.		1	1
10334	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		4	1
10334	2,4-Dinitrophenol	51-28-5	N.D.		10	1
10334	2,4-Dinitrotoluene	121-14-2	N.D.		0.4	1
10334	2,6-Dinitrotoluene	606-20-2	N.D.		0.3	1
10334	1,2-Diphenylhydrazine	122-66-7	N.D.		0.2	1
10334	bis(2-Ethylhexyl)phthalate	117-81-7	2	J	1	1
10334	Fluoranthene	206-44-0	0.3	J	0.3	1
10334	Fluorene	86-73-7	2	J	0.3	1
10334	Hexachlorobenzene	118-74-1	N.D.		1	1
10334	Hexachlorobutadiene	87-68-3	N.D.		0.8	1
10334	Hexachlorocyclopentadiene	77-47-4	N.D.		2	1
10334	Hexachloroethane	67-72-1	N.D.		0.4	1
10334	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.3	1
10334	Isophorone	78-59-1	N.D.		0.3	1
10334	Naphthalene	91-20-3	3	J	0.2	1
10334	Nitrobenzene	98-95-3	N.D.		0.5	1
10334	2-Nitrophenol	88-75-5	N.D.		0.4	1
10334	4-Nitrophenol	100-02-7	N.D.		5	1

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8325635
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:00 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG-E

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 625**		**ug/l**	**ug/l**	
10334	N-Nitrosodimethylamine	62-75-9	N.D.	2	1
10334	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.4	1
10334	N-Nitrosodiphenylamine	86-30-6	N.D.	0.3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.				
10334	Di-n-octylphthalate	117-84-0	N.D.	0.5	1
10334	Pentachlorophenol	87-86-5	N.D.	3	1
10334	Phenanthrene	85-01-8	0.9 J	0.2	1
10334	Phenol	108-95-2	N.D.	0.4	1
10334	Pyrene	129-00-0	0.9 J	0.2	1
10334	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.3	1
10334	2,4,6-Trichlorophenol	88-06-2	N.D.	0.7	1
Pesticides/PCBs	**EPA 608**		**ug/l**	**ug/l**	
07572	Aldrin	309-00-2	0.0017 J	0.0017	1
07572	Alpha BHC	319-84-6	N.D.	0.0064	1
07572	Beta BHC	319-85-7	N.D.	0.0041	1
07572	Gamma BHC - Lindane	58-89-9	N.D.	0.0054	1
07572	Chlordane	57-74-9	N.D.	0.067	1
07572	p,p-DDD	72-54-8	0.0052 J	0.0044	1
07572	p,p-DDE	72-55-9	N.D.	0.0042	1
07572	p,p-DDT	50-29-3	N.D.	0.0044	1
07572	Delta BHC	319-86-8	N.D.	0.0032	1
07572	Dieldrin	60-57-1	0.0068 J	0.0043	1
07572	Endosulfan I	959-98-8	N.D.	0.0043	1
07572	Endosulfan II	33213-65-9	N.D.	0.0092	1
07572	Endosulfan Sulfate	1031-07-8	N.D.	0.0042	1
07572	Endrin	72-20-8	N.D.	0.0072	1
07572	Endrin Aldehyde	7421-93-4	N.D.	0.017	1
07572	Heptachlor	76-44-8	0.013	0.0022	1
07572	Heptachlor Epoxide	1024-57-3	0.0057 J	0.0022	1
06030	PCB-1016	12674-11-2	N.D.	0.084	1
06030	PCB-1221	11104-28-2	N.D.	0.084	1
06030	PCB-1232	11141-16-5	N.D.	0.084	1
06030	PCB-1242	53469-21-9	N.D.	0.084	1
06030	PCB-1248	12672-29-6	N.D.	0.084	1
06030	PCB-1254	11097-69-1	N.D.	0.084	1
06030	PCB-1260	11096-82-5	N.D.	0.13	1
06030	Total PCBs	1336-36-3	N.D.	0.084	1
07572	Toxaphene	8001-35-2	N.D.	0.25	1

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Analysis Report

Sample Description: Effluent Grab Groundwater NRG PRGS

LL Sample # WW 8325635
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:00 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG-E

CAT No.	Analysis Name	CAS Number	Result	EDL	Dilution Factor
Dioxins/Furans	**EPA 1613B October 1994**		**pg/l**	**pg/l**	
10915	2378-TCDD	1746-01-6	N.D.	0.481	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	91	25 - 164

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

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Analysis Report

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8325635
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:00 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG-E

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10334	Method 625	EPA 625	1	16100WAJ625	04/13/2016 00:49	Ankitaben A Patel	1
08108	625 Water Extraction	EPA 625	1	16100WAJ625	04/12/2016 09:30	David S Schrum	1
06030	PCBs w/ OC Pests 608	EPA 608	1	161030012A	04/13/2016 23:07	Kirby B Turner	1
07572	Pests (Charged with PCBs 608)	EPA 608	1	161030013A	04/15/2016 17:33	Lisa A Reinert	1
11960	Method 608 PCB Water Ext.	EPA 608	1	161030012A	04/12/2016 16:40	JoElla L Rice	1
10241	Method 608 Water Extraction	EPA 608	1	161030013A	04/12/2016 16:40	JoElla L Rice	1
10915	Dioxins/Furans in Water - 1613	EPA 1613B October 1994	1	16100003	04/12/2016 23:13	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B October 1994	1	16100003	04/11/2016 15:20	Alex L Barton	1

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Analysis Report

Sample Description: Post OWS Grab Groundwater
NRG PRGS

LL Sample # WW 8325636
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:30 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG-P

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	11,000	45	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	5.4	1.4	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161000017A	04/12/2016 05:18	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161000017A	04/11/2016 08:15	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664A	1	16102807902A	04/11/2016 23:44	Cassandra N Morgan	1

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Analysis Report

Sample Description: P&T Influent Grab Groundwater NRG PRGS

LL Sample # WW 8325637
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 12:45 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGPT

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	2,400		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	4.1	J	1.4	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161000017A	04/12/2016 05:41	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161000017A	04/11/2016 08:15	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664A	1	16102807902A	04/11/2016 23:44	Cassandra N Morgan	1

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Analysis Report

Sample Description: TPE Influent Grab Groundwater
NRG PRGS

LL Sample # WW 8325638
LL Group # 1648921
Account # 08390

Project Name: NRG PRGS

Collected: 04/07/2016 13:15 by JP

Submitted: 04/08/2016 16:20
Reported: 04/19/2016 10:27

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRG-T

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	10,000		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	4.0	J	1.4	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161000017A	04/12/2016 06:05	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161000017A	04/11/2016 08:15	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664A	1	16103807902A	04/12/2016 18:27	Michelle L Lalli	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

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

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

Method Blank

Analysis Name	Result ug/l	MDL ug/l
Batch number: M160991AA	Sample number(s): 8325634	
Acrolein	N.D.	5
Acrylonitrile	N.D.	0.5
Benzene	N.D.	0.5
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
2-Chloroethyl Vinyl Ether	N.D.	0.5
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
Dibromochloromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methylene Chloride	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5
Vinyl Chloride	N.D.	0.5
Batch number: 16100WAJ625	Sample number(s): 8325635	
Acenaphthene	N.D.	0.3
Acenaphthylene	N.D.	0.3
Anthracene	N.D.	0.2
Benzidine	N.D.	20
Benzo(a)anthracene	N.D.	0.2
Benzo(a)pyrene	N.D.	0.3
Benzo(b)fluoranthene	N.D.	0.3
Benzo(g,h,i)perylene	N.D.	0.2
Benzo(k)fluoranthene	N.D.	0.3
4-Bromophenyl-phenylether	N.D.	0.3
Butylbenzylphthalate	N.D.	0.8
Di-n-butylphthalate	N.D.	0.5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

Method Blank (continued)

Analysis Name	Result ug/l	MDL ug/l
4-Chloro-3-methylphenol	N.D.	0.3
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.4
bis(2-Chloroisopropyl)ether	N.D.	0.3
2-Chloronaphthalene	N.D.	0.2
2-Chlorophenol	N.D.	0.3
4-Chlorophenyl-phenylether	N.D.	0.3
Chrysene	N.D.	0.2
Dibenz(a,h)anthracene	N.D.	0.4
1,2-Dichlorobenzene	N.D.	0.3
1,3-Dichlorobenzene	N.D.	0.3
1,4-Dichlorobenzene	N.D.	0.3
3,3'-Dichlorobenzidine	N.D.	0.8
2,4-Dichlorophenol	N.D.	0.3
Diethylphthalate	N.D.	0.3
2,4-Dimethylphenol	N.D.	0.3
Dimethylphthalate	N.D.	1
4,6-Dinitro-2-methylphenol	N.D.	4
2,4-Dinitrophenol	N.D.	10
2,4-Dinitrotoluene	N.D.	0.4
2,6-Dinitrotoluene	N.D.	0.3
1,2-Diphenylhydrazine	N.D.	0.2
bis(2-Ethylhexyl)phthalate	N.D.	1
Fluoranthene	N.D.	0.3
Fluorene	N.D.	0.3
Hexachlorobenzene	N.D.	1
Hexachlorobutadiene	N.D.	0.8
Hexachlorocyclopentadiene	N.D.	2
Hexachloroethane	N.D.	0.4
Indeno(1,2,3-cd)pyrene	N.D.	0.3
Isophorone	N.D.	0.3
Naphthalene	N.D.	0.2
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	0.4
4-Nitrophenol	N.D.	5
N-Nitrosodimethylamine	N.D.	2
N-Nitroso-di-n-propylamine	N.D.	0.4
N-Nitrosodiphenylamine	N.D.	0.3
Di-n-octylphthalate	N.D.	0.5
Pentachlorophenol	N.D.	3
Phenanthrene	N.D.	0.2
Phenol	N.D.	0.4
Pyrene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.3
2,4,6-Trichlorophenol	N.D.	0.7
Batch number: 161030012A	Sample number(s): 8325635	
PCB-1016	N.D.	0.080
PCB-1221	N.D.	0.080
PCB-1232	N.D.	0.080
PCB-1242	N.D.	0.080
PCB-1248	N.D.	0.080

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
PCB-1254	N.D.	0.080
PCB-1260	N.D.	0.12
Total PCBs	N.D.	0.080
Batch number: 161030013A	Sample number(s): 8325635	
Aldrin	N.D.	0.0016
Alpha BHC	N.D.	0.0026
Beta BHC	N.D.	0.0039
Gamma BHC - Lindane	N.D.	0.0020
Chlordane	N.D.	0.064
p,p-DDD	N.D.	0.0042
p,p-DDE	N.D.	0.0040
p,p-DDT	N.D.	0.0042
Delta BHC	N.D.	0.0030
Dieldrin	N.D.	0.0041
Endosulfan I	N.D.	0.0041
Endosulfan II	N.D.	0.0088
Endosulfan Sulfate	N.D.	0.0040
Endrin	N.D.	0.0056
Endrin Aldehyde	N.D.	0.016
Heptachlor	N.D.	0.0021
Heptachlor Epoxide	N.D.	0.0021
Toxaphene	N.D.	0.24
Batch number: 161000017A	Sample number(s): 8325634,8325636-8325638	
DRO C10-C28	N.D.	45
	mg/l	mg/l
Batch number: 161021848001	Sample number(s): 8325634	
Arsenic	N.D.	0.0078
Cadmium	N.D.	0.00064
Chromium	N.D.	0.0020
Copper	N.D.	0.0032
Lead	N.D.	0.0051
Molybdenum	N.D.	0.0021
Nickel	N.D.	0.0025
Silver	N.D.	0.0018
Zinc	N.D.	0.0042
Batch number: 161025713002	Sample number(s): 8325634	
Mercury	N.D.	0.000050
Batch number: 16105102101A	Sample number(s): 8325634	
Total Cyanide (water)	N.D.	0.0050
Batch number: 16102807902A	Sample number(s): 8325634,8325636-8325637	
HEM (oil & grease)	N.D.	1.4
Batch number: 16103807902A	Sample number(s): 8325638	
HEM (oil & grease)	N.D.	1.4
Analysis Name	**Result**	**EDL**
	pg/l	pg/l
Batch number: 16100003	Sample number(s): 8325635	

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

Method Blank (continued)

Analysis Name	Result	EDL
	pg/l	pg/l
2378-TCDD	N.D.	0.668

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: M160991AA	Sample number(s): 8325634								
Acrolein	150	130.32			87		60-120		
Acrylonitrile	100	75.89			76		61-120		
Benzene	20	21.82			109		80-120		
Bromodichloromethane	20	20.51			103		77-120		
Bromoform	20	21.74			109		66-125		
Bromomethane	20	23.25			116		69-120		
Carbon Tetrachloride	20	20.86			104		72-128		
Chlorobenzene	20	21.5			108		80-120		
Chloroethane	20	22.53			113		65-120		
2-Chloroethyl Vinyl Ether	20	18.17			91		54-133		
Chloroform	20	19.95			100		80-120		
Chloromethane	20	20.26			101		64-120		
Dibromochloromethane	20	20.74			104		78-120		
1,1-Dichloroethane	20	20.11			101		75-123		
1,2-Dichloroethane	20	21.5			107		74-120		
1,1-Dichloroethene	20	17.63			88		69-122		
trans-1,2-Dichloroethene	20	18.79			94		80-125		
1,2-Dichloropropane	20	21.45			107		80-120		
cis-1,3-Dichloropropene	20	20.09			100		80-120		
trans-1,3-Dichloropropene	20	20.03			100		80-120		
Ethylbenzene	20	20.57			103		80-120		
Methylene Chloride	20	17.87			89		75-120		
1,1,2,2-Tetrachloroethane	20	20.95			105		80-120		
Tetrachloroethene	20	23.34			117		77-122		
Toluene	20	20.64			103		80-120		
1,1,1-Trichloroethane	20	19.77			99		72-120		
1,1,2-Trichloroethane	20	21.4			107		80-120		
Trichloroethene	20	22.64			113		80-120		
Vinyl Chloride	20	21.24			106		68-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16100WAJ625	Sample number(s): 8325635								
Acenaphthene	50	48.13	50	48.05	96	96	71-118	0	30
Acenaphthylene	50	47.21	50	47.06	94	94	70-121	0	30
Anthracene	50	47.62	50	49.82	95	100	80-114	5	30
Benzidine	250	186.61	250	187.37	75	75	21-107	0	30
Benzo(a)anthracene	50	49.15	50	49.7	98	99	76-117	1	30
Benzo(a)pyrene	50	46.41	50	46.96	93	94	76-112	1	30
Benzo(b)fluoranthene	50	49.76	50	51.4	100	103	80-120	3	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(g,h,i)perylene	50	47.73	50	49.55	95	99	76-120	4	30
Benzo(k)fluoranthene	50	46.31	50	46.62	93	93	75-121	1	30
4-Bromophenyl-phenylether	50	47.75	50	49.23	95	98	75-118	3	30
Butylbenzylphthalate	50	47.01	50	49.45	94	99	80-125	5	30
Di-n-butylphthalate	50	47.42	50	50.48	95	101	77-116	6	30
4-Chloro-3-methylphenol	50	49.94	50	50.22	100	100	72-116	1	30
bis(2-Chloroethoxy)methane	50	50.57	50	48.41	101	97	67-122	4	30
bis(2-Chloroethyl)ether	50	47.81	50	49.47	96	99	74-111	3	30
bis(2-Chloroisopropyl)ether	50	44.46	50	45.16	89	90	74-116	2	30
2-Chloronaphthalene	50	40.18	50	39.81	80	80	41-144	1	30
2-Chlorophenol	50	47.19	50	48.99	94	98	68-117	4	30
4-Chlorophenyl-phenylether	50	48.16	50	47.28	96	95	76-115	2	30
Chrysene	50	50.31	50	50.45	101	101	81-118	0	30
Dibenz(a,h)anthracene	50	48.68	50	49.96	97	100	77-119	3	30
1,2-Dichlorobenzene	50	38.27	50	38.14	77	76	32-111	0	30
1,3-Dichlorobenzene	50	33.49	50	33.82	67	68	24-107	1	30
1,4-Dichlorobenzene	50	36.3	50	35.16	73	70	26-108	3	30
3,3'-Dichlorobenzidine	50	29.28	50	30.03	59	60	10-103	3	30
2,4-Dichlorophenol	50	49.86	50	51.45	100	103	79-114	3	30
Diethylphthalate	50	48.71	50	47.96	97	96	39-137	2	30
2,4-Dimethylphenol	50	44.21	50	42.45	88	85	72-110	4	30
Dimethylphthalate	50	46.86	50	42.99	94	86	33-136	9	30
4,6-Dinitro-2-methylphenol	50	44.05	50	50.32	88	101	74-120	13	30
2,4-Dinitrophenol	100	83.82	100	92.76	84	93	50-128	10	30
2,4-Dinitrotoluene	50	47.74	50	49.22	95	98	85-117	3	30
2,6-Dinitrotoluene	50	47.5	50	47.67	95	95	80-115	0	30
1,2-Diphenylhydrazine	50	49.05	50	50.16	98	100	73-119	2	30
bis(2-Ethylhexyl)phthalate	50	47.1	50	47.69	94	95	77-118	1	30
Fluoranthene	50	47.84	50	48.77	96	98	77-111	2	30
Fluorene	50	47.43	50	48.41	95	97	80-116	2	30
Hexachlorobenzene	50	45.14	50	48.27	90	97	75-116	7	30
Hexachlorobutadiene	50	30.37	50	26.3	61	53	11-113	14	30
Hexachlorocyclopentadiene	100	38.43	100	32.68	38	33	24-128	16	30
Hexachloroethane	50	27.16	50	25.94	54	52	11-105	5	30
Indeno(1,2,3-cd)pyrene	50	46.63	50	46.96	93	94	76-115	1	30
Isophorone	50	49.17	50	47.46	98	95	78-120	4	30
Naphthalene	50	46.51	50	44.31	93	89	52-115	5	30
Nitrobenzene	50	52.63	50	48.73	105	97	73-113	8	30
2-Nitrophenol	50	46.68	50	46.69	93	93	83-109	0	30
4-Nitrophenol	50	21.97	50	24.82	44	50	10-83	12	30
N-Nitrosodimethylamine	50	26.69	50	30.59	53	61	28-81	14	30
N-Nitroso-di-n-propylamine	50	45.86	50	48.8	92	98	78-110	6	30
N-Nitrosodiphenylamine	50	46.76	50	50.73	94	101	77-116	8	30
Di-n-octylphthalate	50	45.75	50	46.55	92	93	79-125	2	30
Pentachlorophenol	50	50.98	50	49.97	102	100	57-116	2	30
Phenanthrene	50	46.87	50	49.26	94	99	78-112	5	30
Phenol	50	20.92	50	20.54	42	41	14-69	2	30
Pyrene	50	47.18	50	50.28	94	101	78-117	6	30
1,2,4-Trichlorobenzene	50	39.71	50	36.83	79	74	31-118	8	30
2,4,6-Trichlorophenol	50	46.81	50	48.08	94	96	83-120	3	30

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Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 161030012A	Sample number(s): 8325635								
PCB-1016	5.04	4.09	5.04	4.30	81	85	60-117	5	30
PCB-1260	5.05	3.60	5.05	3.79	71	75	57-134	5	30
Batch number: 161030013A	Sample number(s): 8325635								
Aldrin	0.102	0.0694	0.102	0.0754	68	74	28-119	8	30
Alpha BHC	0.102	0.0842	0.102	0.0824	83	81	47-132	2	30
Beta BHC	0.102	0.0789	0.102	0.0781	77	77	56-125	1	30
Gamma BHC - Lindane	0.102	0.0859	0.102	0.0855	84	84	51-132	0	30
p,p-DDD	0.217	0.174	0.217	0.173	80	80	53-131	1	30
p,p-DDE	0.204	0.162	0.204	0.163	79	80	51-129	1	30
p,p-DDT	0.215	0.169	0.215	0.171	79	80	42-136	1	30
Delta BHC	0.102	0.0879	0.102	0.0870	86	85	57-131	1	30
Dieldrin	0.212	0.169	0.212	0.169	80	80	54-126	0	30
Endosulfan I	0.105	0.0830	0.105	0.0835	79	80	51-118	1	30
Endosulfan II	0.203	0.174	0.203	0.167	86	82	54-124	4	30
Endosulfan Sulfate	0.201	0.166	0.201	0.156	83	78	41-133	6	30
Endrin	0.219	0.165	0.219	0.169	76	77	35-143	2	30
Endrin Aldehyde	0.207	0.156	0.207	0.147	75	71	40-135	6	30
Heptachlor	0.104	0.0767	0.104	0.0786	74	76	38-111	2	30
Heptachlor Epoxide	0.102	0.0852	0.102	0.0839	84	82	56-132	1	30
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 161000017A	Sample number(s): 8325634,8325636-8325638								
DRO C10-C28	2660	1849.37	2680	1906.62	70	71	69-115	3	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 161021848001	Sample number(s): 8325634								
Arsenic	0.150	0.155			104		80-120		
Cadmium	0.0500	0.0533			107		80-120		
Chromium	0.200	0.205			103		80-120		
Copper	0.250	0.251			100		80-120		
Lead	0.150	0.155			103		80-120		
Molybdenum	2.00	2.04			102		80-120		
Nickel	0.500	0.526			105		80-120		
Silver	0.0500	0.0499			100		80-120		
Zinc	0.500	0.517			103		80-120		
Batch number: 161025713002	Sample number(s): 8325634								
Mercury	0.00100	0.000871			87		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 16105102101A	Sample number(s): 8325634								
Total Cyanide (water)	0.200	0.191			96		90-110		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 16102807902A	Sample number(s): 8325634,8325636-8325637								
HEM (oil & grease)	40	34.9	40	38.2	87	96	78-114	9	11
Batch number: 16103807902A	Sample number(s): 8325638								

*- Outside of specification
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Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
HEM (oil & grease)	40	37.4	40	38.9	94	97	78-114	4	11

Analysis Name	OPR Spike Added pg/l	OPR Conc pg/l	OPRD Spike Added pg/l	OPRD Conc pg/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 16100003	Sample number(s): 8325635								
2378-TCDD	200	186.69			93		67-158		

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: M160991AA	Sample number(s): 8325634 UNSPK: P322799									
Acrolein	N.D.	750	606.5	750	646.75	81	86	60-120	6	30
Acrylonitrile	N.D.	500	373.13	500	393.49	75	79	61-120	5	30
Benzene	N.D.	100	114.21	100	114.7	114	115	80-120	0	30
Bromodichloromethane	N.D.	100	103.42	100	103.3	103	103	77-120	0	30
Bromoform	N.D.	100	107.69	100	111.33	108	111	66-125	3	30
Bromomethane	N.D.	100	109.68	100	114.2	110	114	69-120	4	30
Carbon Tetrachloride	N.D.	100	110.31	100	116.03	110	116	72-128	5	30
Chlorobenzene	N.D.	100	112.55	100	115.47	113	115	80-120	3	30
Chloroethane	N.D.	100	105.52	100	114.16	106	114	65-120	8	30
2-Chloroethyl Vinyl Ether	N.D.	100	92.33	100	93.13	92	93	54-133	1	30
Chloroform	N.D.	100	106.5	100	109.13	106	109	80-120	2	30
Chloromethane	N.D.	100	96.76	100	97.16	97	97	64-120	0	30
Dibromochloromethane	N.D.	100	106.22	100	106.68	106	107	78-120	0	30
1,1-Dichloroethane	N.D.	100	103.6	100	107.31	104	107	75-123	4	30
1,2-Dichloroethane	7.49	100	117.85	100	119.39	110	112	74-120	1	30
1,1-Dichloroethene	N.D.	100	89.6	100	96.39	90	96	69-122	7	30
trans-1,2-Dichloroethene	N.D.	100	99.07	100	103.12	99	103	80-125	4	30
1,2-Dichloropropane	N.D.	100	110.84	100	111.56	111	112	80-120	1	30
cis-1,3-Dichloropropene	N.D.	100	104.2	100	108.33	104	108	80-120	4	30
trans-1,3-Dichloropropene	N.D.	100	101.34	100	106.35	101	106	80-120	5	30
Ethylbenzene	N.D.	100	107.82	100	110.6	108	111	80-120	3	30
Methylene Chloride	N.D.	100	89.95	100	94.4	90	94	75-120	5	30
1,1,2,2-Tetrachloroethane	N.D.	100	105.82	100	106.4	106	106	80-120	1	30
Tetrachloroethene	N.D.	100	126.17	100	133.28	126*	133*	77-122	5	30
Toluene	N.D.	100	110.46	100	111.54	110	112	80-120	1	30
1,1,1-Trichloroethane	N.D.	100	102.97	100	109.38	103	109	72-120	6	30
1,1,2-Trichloroethane	N.D.	100	108.41	100	111.69	108	112	80-120	3	30
Trichloroethene	N.D.	100	115.64	100	118.5	116	118	80-120	2	30
Vinyl Chloride	N.D.	100	97.13	100	104.01	97	104	68-120	7	30

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Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

MS/MSD (continued)

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 161021848001	Sample number(s): 8325634 UNSPK: P325484									
Arsenic	N.D.	0.150	0.157	0.150	0.153	105	102	75-125	3	20
Cadmium	0.000730	0.0500	0.0524	0.0500	0.0507	103	100	75-125	3	20
Chromium	0.00513	0.200	0.208	0.200	0.204	102	99	75-125	2	20
Copper	0.00472	0.250	0.258	0.250	0.250	101	98	75-125	3	20
Lead	N.D.	0.150	0.155	0.150	0.150	103	100	75-125	4	20
Molybdenum	0.00211	2.00	2.10	2.00	2.05	105	103	75-125	2	20
Nickel	0.00475	0.500	0.514	0.500	0.496	102	98	75-125	3	20
Silver	N.D.	0.0500	0.0519	0.0500	0.0510	104	102	75-125	2	20
Zinc	0.0148	0.500	0.525	0.500	0.511	102	99	75-125	3	20
Batch number: 161025713002	Sample number(s): 8325634 UNSPK: P322121									
Mercury	N.D.	0.00100	0.000884	0.00100	0.000893	88	89	80-120	1	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16105102101A	Sample number(s): 8325634 UNSPK: P324954									
Total Cyanide (water)	N.D.	0.200	N.D.	0.200	N.D.	0*	0*	90-110	0	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16102807902A	Sample number(s): 8325634,8325636-8325637 UNSPK: P318118									
HEM (oil & grease)	N.D.	42.6	38.09			89		78-114		
Batch number: 16103807902A	Sample number(s): 8325638 UNSPK: P324189									
HEM (oil & grease)	N.D.	41.7	N.D.			0*		78-114		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 161021848001	Sample number(s): 8325634 BKG: P325484			
Arsenic	N.D.	N.D.	0 (1)	20
Cadmium	0.000730	0.000760	4 (1)	20
Chromium	0.00513	0.00535	4 (1)	20
Copper	0.00472	0.00440	7 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Molybdenum	0.00211	N.D.	200* (1)	20
Nickel	0.00475	0.00568	18 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Zinc	0.0148	0.0152	3 (1)	20
Batch number: 161025713002	Sample number(s): 8325634 BKG: P322121			
Mercury	N.D.	N.D.	0 (1)	20

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Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 16105102101A	Sample number(s): 8325634 BKG: P324954			
Total Cyanide (water)	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: TTO VOCs 624
Batch number: M160991AA

	1,2-Dichloroethane-d4	Fluorobenzene	4-Bromofluorobenzene
8325634	100	95	101
Blank	97	95	90
LCS	94	101	95
MS	98	100	96
MSD	95	99	95
Limits:	78-118	88-107	80-118

Analysis Name: Method 625
Batch number: 16100WAJ625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol
8325635	86	87	78	20	29	28
Blank	96	96	101	37	58	91
LCS	102	98	98	43	59	89
LCSD	95	97	103	44	66	95
Limits:	60-119	62-116	55-124	10-75	10-105	11-154

Analysis Name: PCBs w/ OC Pests 608
Batch number: 161030012A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8325635	67	60
Blank	86	59
LCS	91	43
LCSD	96	33
Limits:	33-137	10-148

Analysis Name: Pests (Charged with PCBs 608)
Batch number: 161030013A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8325635	63	46
Blank	54	52
LCS	60	51
LCSD	61	48

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Quality Control Summary

Client Name: GES, Inc.
Reported: 04/19/2016 10:27

Group Number: 1648921

Surrogate Quality Control (continued)

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

Limits: 29-129 32-149

Analysis Name: DRO micro-ext 8015B
Batch number: 161000017A

	Orthoterphenyl
8325634	115
8325636	138
8325637	113
8325638	59
Blank	94
LCS	85
LCSD	93
Limits:	42-160

Analysis Name: Dioxins/Furans in Water - 1613
Batch number: 16100003

	13C12-2378-TCDD
8325635	91
Blank	80
OPR	90
Limits:	25-164

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Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1648921 Sample # 8325634-38

Client: Groundwater & Env. Services, Inc.

Project Name/#: NRG PRGS | Site ID #: NRG PRGS

Project Manager: Anne Ashley Bell | P.O. #:

Sampler: Jeff Plummer | PWSID #:

Phone #: 800-220-3606 x 3704 | Quote #:

State where sample(s) were collected: 1400 North Royal St, Alexandria, VA

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Matrix: Sediment	Matrix: Ground Water	Matrix: Surface Water	Matrix: Potable Water	Matrix: NPDES Water	Matrix: Other:	Total # of Containers	Oil & Grease (EPA 1664A)	VOCs (EPA 624)	SVOCs (EPA 625, PPL list)	Pesticides & PCBs (EPA 608)	2,3,7,8-Tetrachlorodibenzo-p-dioxin Analysis (EPA 1613)	Metals (6010B) (Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Silver, Zinc)	Mercury (7470A)	Total Cyanide (EPA 335.4)	TPH-DRO (EPA 8015B)		Remarks
Preservation Codes													H	-	-	-	-	N	N	B	H	-	
Effluent	4-7-16	1200	X					X				15	X	X	X	X	X	X	X	X	X		
Post OWS	4-7-16	1230	X				X					4	X								X		
P&T Influent	4-7-16	1245	X				X					4	X								X		
TPE Influent	4-7-16	1315	X				X					4	X								X		

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☒

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed: 5-day TAT

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
J Plummer	4-8-16	0830	Denise Woodring		0830
Denise Woodring	4-8-16	11:00	[illegible]	4-8-16	11:00
[illegible]	4-8-16	1620			
			Haitza Fernandez	4/8/16	1620

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.5-0.9 °C

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 142242

Group Number(s): 1648921

Client: Groundwater

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	04/08/2016 16:20
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Maritza Fernandez (9906) at 17:27 on 04/08/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.5	DT	Wet	Y	Loose	N
2	DT146	0.9	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
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www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: May 11, 2016

Project: NRG PRGS

Submittal Date: 05/06/2016
Group Number: 1658305
PO Number: NRG PRGS
Release Number: 0402859
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TPE Vapor Grab Vapor	8369941

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: June 22, 2016

Project: NRG PRGS

Submittal Date: 06/09/2016
Group Number: 1670205
PO Number: NRG PRGS
Release Number: 0402896
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
Effluent Grab Groundwater	8417687
Post OWS Grab Groundwater	8417688
P&T Influent Grab Groundwater	8417689
TPE Influent Grab Groundwater	8417690

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8417687
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:00 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGEF

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 624**		**ug/l**		**ug/l**	
10371	Acrolein	107-02-8	N.D.		5	1
10371	Acrylonitrile	107-13-1	N.D.		0.5	1
10371	Benzene	71-43-2	N.D.		0.5	1
10371	Bromodichloromethane	75-27-4	N.D.		0.5	1
10371	Bromoform	75-25-2	N.D.		0.5	1
10371	Bromomethane	74-83-9	N.D.		0.5	1
10371	Carbon Tetrachloride	56-23-5	N.D.		0.5	1
10371	Chlorobenzene	108-90-7	N.D.		0.5	1
10371	Chloroethane	75-00-3	N.D.		0.5	1
10371	2-Chloroethyl Vinyl Ether	110-75-8	N.D.		0.5	1
	2-Chloroethyl vinyl ether may not be recovered if acid was used to preserve this sample.					
10371	Chloroform	67-66-3	N.D.		0.5	1
10371	Chloromethane	74-87-3	N.D.		0.5	1
10371	Dibromochloromethane	124-48-1	N.D.		0.5	1
10371	1,1-Dichloroethane	75-34-3	N.D.		0.5	1
10371	1,2-Dichloroethane	107-06-2	N.D.		0.5	1
10371	1,1-Dichloroethene	75-35-4	N.D.		0.5	1
10371	trans-1,2-Dichloroethene	156-60-5	N.D.		0.5	1
10371	1,2-Dichloropropane	78-87-5	N.D.		0.5	1
10371	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.5	1
10371	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.5	1
10371	Ethylbenzene	100-41-4	N.D.		0.5	1
10371	Methylene Chloride	75-09-2	N.D.		0.5	1
10371	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.5	1
10371	Tetrachloroethene	127-18-4	1		0.5	1
10371	Toluene	108-88-3	N.D.		0.5	1
10371	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	1
10371	1,1,2-Trichloroethane	79-00-5	N.D.		0.5	1
10371	Trichloroethene	79-01-6	N.D.		0.5	1
10371	Vinyl Chloride	75-01-4	N.D.		0.5	1
GC/MS Semivolatiles	**EPA 625**		**ug/l**		**ug/l**	
10334	Acenaphthene	83-32-9	N.D.		0.3	1
10334	Acenaphthylene	208-96-8	N.D.		0.3	1
10334	Anthracene	120-12-7	N.D.		0.2	1
10334	Benzidine	92-87-5	N.D.		19	1
10334	Benzo(a)anthracene	56-55-3	0.4	J	0.2	1
10334	Benzo(a)pyrene	50-32-8	N.D.		0.3	1
10334	Benzo(b)fluoranthene	205-99-2	N.D.		0.3	1
10334	Benzo(g,h,i)perylene	191-24-2	N.D.		0.2	1
10334	Benzo(k)fluoranthene	207-08-9	N.D.		0.3	1
10334	4-Bromophenyl-phenylether	101-55-3	N.D.		0.3	1
10334	Butylbenzylphthalate	85-68-7	N.D.		0.7	1
10334	Di-n-butylphthalate	84-74-2	N.D.		0.5	1
10334	4-Chloro-3-methylphenol	59-50-7	N.D.		0.3	1
10334	bis(2-Chloroethoxy)methane	111-91-1	N.D.		0.5	1
10334	bis(2-Chloroethyl)ether	111-44-4	N.D.		0.4	1
10334	bis(2-Chloroisopropyl)ether	39638-32-9	N.D.		0.3	1

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8417687
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:00 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGEF

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Semivolatiles	**EPA 625**		**ug/l**		**ug/l**	
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
10334	2-Chloronaphthalene	91-58-7	N.D.		0.2	1
10334	2-Chlorophenol	95-57-8	N.D.		0.3	1
10334	4-Chlorophenyl-phenylether	7005-72-3	N.D.		0.3	1
10334	Chrysene	218-01-9	N.D.		0.2	1
10334	Dibenz(a,h)anthracene	53-70-3	N.D.		0.4	1
10334	1,2-Dichlorobenzene	95-50-1	N.D.		0.3	1
10334	1,3-Dichlorobenzene	541-73-1	N.D.		0.3	1
10334	1,4-Dichlorobenzene	106-46-7	N.D.		0.3	1
10334	3,3'-Dichlorobenzidine	91-94-1	N.D.		0.7	1
10334	2,4-Dichlorophenol	120-83-2	N.D.		0.3	1
10334	Diethylphthalate	84-66-2	N.D.		0.3	1
10334	2,4-Dimethylphenol	105-67-9	N.D.		0.3	1
10334	Dimethylphthalate	131-11-3	N.D.		0.9	1
10334	4,6-Dinitro-2-methylphenol	534-52-1	N.D.		4	1
10334	2,4-Dinitrophenol	51-28-5	N.D.		9	1
10334	2,4-Dinitrotoluene	121-14-2	N.D.		0.4	1
10334	2,6-Dinitrotoluene	606-20-2	N.D.		0.3	1
10334	1,2-Diphenylhydrazine	122-66-7	N.D.		0.2	1
10334	bis(2-Ethylhexyl)phthalate	117-81-7	9		0.9	1
10334	Fluoranthene	206-44-0	0.4	J	0.3	1
10334	Fluorene	86-73-7	1	J	0.3	1
10334	Hexachlorobenzene	118-74-1	N.D.		0.9	1
10334	Hexachlorobutadiene	87-68-3	N.D.		0.7	1
10334	Hexachlorocyclopentadiene	77-47-4	N.D.		2	1
10334	Hexachloroethane	67-72-1	N.D.		0.4	1
10334	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.3	1
10334	Isophorone	78-59-1	N.D.		0.3	1
10334	Naphthalene	91-20-3	N.D.		0.2	1
10334	Nitrobenzene	98-95-3	N.D.		0.5	1
10334	2-Nitrophenol	88-75-5	N.D.		0.4	1
10334	4-Nitrophenol	100-02-7	N.D.		5	1
10334	N-Nitrosodimethylamine	62-75-9	N.D.		2	1
10334	N-Nitroso-di-n-propylamine	621-64-7	N.D.		0.4	1
10334	N-Nitrosodiphenylamine	86-30-6	N.D.		0.3	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
10334	Di-n-octylphthalate	117-84-0	N.D.		0.5	1
10334	Pentachlorophenol	87-86-5	N.D.		3	1
10334	Phenanthrene	85-01-8	N.D.		0.2	1
10334	Phenol	108-95-2	N.D.		0.4	1
10334	Pyrene	129-00-0	2	J	0.2	1
10334	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.3	1
10334	2,4,6-Trichlorophenol	88-06-2	N.D.		0.7	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8417687
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:00 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGEF

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor

The sample was re-extracted and the QC is compliant. However, the sample surrogates were outside of QC limits in the reextraction. All results are reported from the first trial. Similar results were obtained in both trials.

Pesticides/PCBs	**EPA 608**		**ug/l**	**ug/l**	
07572	Aldrin	309-00-2	N.D.	0.0029	1
07572	Alpha BHC	319-84-6	0.0057 J	0.0026	1
07572	Beta BHC	319-85-7	0.029	0.0040	1
07572	Gamma BHC - Lindane	58-89-9	0.0058 J	0.0020	1
07572	Chlordane	57-74-9	N.D.	0.066	1
07572	p,p-DDD	72-54-8	0.0079 J	0.0043	1
07572	p,p-DDE	72-55-9	N.D.	0.0041	1
07572	p,p-DDT	50-29-3	N.D.	0.0043	1
07572	Delta BHC	319-86-8	N.D.	0.0031	1
07572	Dieldrin	60-57-1	N.D.	0.0042	1
07572	Endosulfan I	959-98-8	N.D.	0.0042	1
07572	Endosulfan II	33213-65-9	N.D.	0.0090	1
07572	Endosulfan Sulfate	1031-07-8	N.D.	0.0041	1
07572	Endrin	72-20-8	N.D.	0.0057	1
07572	Endrin Aldehyde	7421-93-4	N.D.	0.016	1
07572	Heptachlor	76-44-8	0.0036 J	0.0021	1
07572	Heptachlor Epoxide	1024-57-3	0.0028 J	0.0021	1
06030	PCB-1016	12674-11-2	N.D.	0.082	1
06030	PCB-1221	11104-28-2	N.D.	0.082	1
06030	PCB-1232	11141-16-5	N.D.	0.082	1
06030	PCB-1242	53469-21-9	N.D.	0.082	1
06030	PCB-1248	12672-29-6	N.D.	0.082	1
06030	PCB-1254	11097-69-1	N.D.	0.082	1
06030	PCB-1260	11096-82-5	N.D.	0.12	1
06030	Total PCBs	1336-36-3	N.D.	0.082	1
07572	Toxaphene	8001-35-2	N.D.	0.25	1

The recovery for the method blank surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the method blank surrogate(s) is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

Reporting limits were raised due to interference from the sample matrix.
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	38,000	45	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

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Analysis Report

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8417687
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:00 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGEF

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0078	1
07049	Cadmium	7440-43-9	0.00069 J	0.00064	1
07051	Chromium	7440-47-3	0.0058 J	0.0020	1
07053	Copper	7440-50-8	0.0657	0.0032	1
07055	Lead	7439-92-1	0.0091 J	0.0051	1
07060	Molybdenum	7439-98-7	N.D.	0.0021	1
07061	Nickel	7440-02-0	0.0283	0.0025	1
07066	Silver	7440-22-4	N.D.	0.0019	1
07072	Zinc	7440-66-6	0.0557	0.0042	1
	SW-846 7470A		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000078 J	0.000050	1
Wet Chemistry	**EPA 335.4**		**mg/l**	**mg/l**	
00237	Total Cyanide (water)	57-12-5	N.D.	0.0050	1
	EPA 1664A		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	3.5 J	1.4	1

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Analysis Report

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8417687
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:00 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGEF

CAT No.	Analysis Name	CAS Number	Result	EDL	Dilution Factor
Dioxins/Furans	**EPA 1613B October 1994**		**pg/l**	**pg/l**	
10915	2378-TCDD	1746-01-6	N.D.	0.0837	1

Labeled Compounds	**%Rec**	**Windows**
13C12-2378-TCDD	106	25 - 164

Dioxins/Furans Data Qualifiers:

B	*Detected in Method Blank*
U	*Undetected*
J	*Estimated concentration between Estimated Detection Limit and Minimum Reporting Level*
E	*Exceeds calibration range*
C	*Confirmed quantitation on secondary GC column*
Q	*EMPC - Estimated Maximum Possible Concentration*
F	*Interference is present*
S	*Saturation of detection signal*

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8417687
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:00 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGEF

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10371	TTO VOCs 624	EPA 624	1	M161622AA	06/10/2016 23:28	Linda C Pape	1
10334	Method 625	EPA 625	1	16162WAG625	06/14/2016 16:41	Linda M Hartenstine	1
08108	625 Water Extraction	EPA 625	1	16162WAG625	06/11/2016 09:00	Bradley W VanLeuven	1
06030	PCBs w/ OC Pests 608	EPA 608	1	161630028A	06/14/2016 20:41	Kirby B Turner	1
07572	Pests (Charged with PCBs 608)	EPA 608	1	161630029A	06/16/2016 05:08	Jamie L Brillhart	1
11960	Method 608 PCB Water Ext.	EPA 608	1	161630028A	06/13/2016 17:00	Ryan A Schafran	1
10241	Method 608 Water Extraction	EPA 608	1	161630029A	06/13/2016 17:00	Ryan A Schafran	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	161620007A	06/14/2016 18:08	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161620007A	06/11/2016 06:10	Maria Davenport	1
10915	Dioxins/Furans in Water - 1613	EPA 1613B October 1994	1	16169002	06/18/2016 14:30	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B October 1994	1	16169002	06/17/2016 08:30	Brett M Weidman	1
07035	Arsenic	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07049	Cadmium	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07051	Chromium	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07053	Copper	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07055	Lead	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07060	Molybdenum	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07061	Nickel	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07066	Silver	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
07072	Zinc	SW-846 6010B	1	161631848001	06/16/2016 03:00	Matthew R Machtinger	1
00259	Mercury	SW-846 7470A	1	161635713001	06/14/2016 07:06	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	161631848001	06/13/2016 07:40	Lisa J Cooke	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	161635713001	06/13/2016 07:50	Lisa J Cooke	1
00237	Total Cyanide (water)	EPA 335.4	1	16167102101B	06/16/2016 11:28	Brianna A White	1
00492	Cyanide Water Distillation	EPA 335.4	1	16167102101B	06/15/2016 09:50	Nancy J Shoop	1

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Analysis Report

Sample Description: Effluent Grab Groundwater
NRG PRGS

LL Sample # WW 8417687
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:00 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGEF

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08079	HEM (oil & grease)	EPA 1664A	1	16167807901A	06/15/2016 01:26	Cassandra N Morgan	1

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Analysis Report

Sample Description: Post OWS Grab Groundwater
NRG PRGS

LL Sample # WW 8417688
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:20 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGPS

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
12858	DRO C10-C28	n.a.	1,300		45	1
Wet Chemistry	**EPA 1664A**		**mg/l**		**mg/l**	
08079	HEM (oil & grease)	n.a.	2.2	J	1.4	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161620007A	06/14/2016 18:31	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161620007A	06/11/2016 06:10	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664A	1	16167807901A	06/15/2016 01:26	Cassandra N Morgan	1

Sample Description: P&T Influent Grab Groundwater NRG PRGS

LL Sample # WW 8417689
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:30 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGPT

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	670	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161620007A	06/14/2016 18:55	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161620007A	06/11/2016 06:10	Maria Davenport	1

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Analysis Report

Sample Description: TPE Influent Grab Groundwater NRG PRGS

LL Sample # WW 8417690
LL Group # 1670205
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 11:35 by JP

Submitted: 06/09/2016 16:00
Reported: 06/22/2016 17:34

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

NRGTP

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	18,000	45	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12858	DRO micro-ext 8015B	SW-846 8015B	1	161620007A	06/14/2016 19:19	Christine E Dolman	1
12059	Microextraction - DRO (waters)	SW-846 3511	1	161620007A	06/11/2016 06:10	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

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

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

Method Blank

Analysis Name	Result ug/l	MDL ug/l
Batch number: M161622AA	Sample number(s): 8417687	
Acrolein	N.D.	5
Acrylonitrile	N.D.	0.5
Benzene	N.D.	0.5
Bromodichloromethane	N.D.	0.5
Bromoform	N.D.	0.5
Bromomethane	N.D.	0.5
Carbon Tetrachloride	N.D.	0.5
Chlorobenzene	N.D.	0.5
Chloroethane	N.D.	0.5
2-Chloroethyl Vinyl Ether	N.D.	0.5
Chloroform	N.D.	0.5
Chloromethane	N.D.	0.5
Dibromochloromethane	N.D.	0.5
1,1-Dichloroethane	N.D.	0.5
1,2-Dichloroethane	N.D.	0.5
1,1-Dichloroethene	N.D.	0.5
trans-1,2-Dichloroethene	N.D.	0.5
1,2-Dichloropropane	N.D.	0.5
cis-1,3-Dichloropropene	N.D.	0.5
trans-1,3-Dichloropropene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methylene Chloride	N.D.	0.5
1,1,2,2-Tetrachloroethane	N.D.	0.5
Tetrachloroethene	N.D.	0.5
Toluene	N.D.	0.5
1,1,1-Trichloroethane	N.D.	0.5
1,1,2-Trichloroethane	N.D.	0.5
Trichloroethene	N.D.	0.5
Vinyl Chloride	N.D.	0.5
Batch number: 16162WAG625	Sample number(s): 8417687	
Acenaphthene	N.D.	0.3
Acenaphthylene	N.D.	0.3
Anthracene	N.D.	0.2
Benzidine	N.D.	20
Benzo(a)anthracene	N.D.	0.2
Benzo(a)pyrene	N.D.	0.3
Benzo(b)fluoranthene	N.D.	0.3
Benzo(g,h,i)perylene	N.D.	0.2
Benzo(k)fluoranthene	N.D.	0.3
4-Bromophenyl-phenylether	N.D.	0.3
Butylbenzylphthalate	N.D.	0.8
Di-n-butylphthalate	N.D.	0.5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

Method Blank (continued)

Analysis Name	Result ug/l	MDL ug/l
4-Chloro-3-methylphenol	N.D.	0.3
bis(2-Chloroethoxy)methane	N.D.	0.5
bis(2-Chloroethyl)ether	N.D.	0.4
bis(2-Chloroisopropyl)ether	N.D.	0.3
2-Chloronaphthalene	N.D.	0.2
2-Chlorophenol	N.D.	0.3
4-Chlorophenyl-phenylether	N.D.	0.3
Chrysene	N.D.	0.2
Dibenz(a,h)anthracene	N.D.	0.4
1,2-Dichlorobenzene	N.D.	0.3
1,3-Dichlorobenzene	N.D.	0.3
1,4-Dichlorobenzene	N.D.	0.3
3,3'-Dichlorobenzidine	N.D.	0.8
2,4-Dichlorophenol	N.D.	0.3
Diethylphthalate	N.D.	0.3
2,4-Dimethylphenol	N.D.	0.3
Dimethylphthalate	N.D.	1
4,6-Dinitro-2-methylphenol	N.D.	4
2,4-Dinitrophenol	N.D.	10
2,4-Dinitrotoluene	N.D.	0.4
2,6-Dinitrotoluene	N.D.	0.3
1,2-Diphenylhydrazine	N.D.	0.2
bis(2-Ethylhexyl)phthalate	N.D.	1
Fluoranthene	N.D.	0.3
Fluorene	N.D.	0.3
Hexachlorobenzene	N.D.	1
Hexachlorobutadiene	N.D.	0.8
Hexachlorocyclopentadiene	N.D.	2
Hexachloroethane	N.D.	0.4
Indeno(1,2,3-cd)pyrene	N.D.	0.3
Isophorone	N.D.	0.3
Naphthalene	N.D.	0.2
Nitrobenzene	N.D.	0.5
2-Nitrophenol	N.D.	0.4
4-Nitrophenol	N.D.	5
N-Nitrosodimethylamine	N.D.	2
N-Nitroso-di-n-propylamine	N.D.	0.4
N-Nitrosodiphenylamine	N.D.	0.3
Di-n-octylphthalate	N.D.	0.5
Pentachlorophenol	N.D.	3
Phenanthrene	N.D.	0.2
Phenol	N.D.	0.4
Pyrene	N.D.	0.2
1,2,4-Trichlorobenzene	N.D.	0.3
2,4,6-Trichlorophenol	N.D.	0.7
Batch number: 161630028A	Sample number(s): 8417687	
PCB-1016	N.D.	0.080
PCB-1221	N.D.	0.080
PCB-1232	N.D.	0.080
PCB-1242	N.D.	0.080
PCB-1248	N.D.	0.080

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

Method Blank (continued)

Analysis Name	Result	MDL
	ug/l	ug/l
PCB-1254	N.D.	0.080
PCB-1260	N.D.	0.12
Total PCBs	N.D.	0.080
Batch number: 161630029A	Sample number(s): 8417687	
Aldrin	N.D.	0.0016
Alpha BHC	N.D.	0.0026
Beta BHC	N.D.	0.0039
Gamma BHC - Lindane	N.D.	0.0020
Chlordane	N.D.	0.064
p,p-DDD	N.D.	0.0042
p,p-DDE	N.D.	0.0040
p,p-DDT	N.D.	0.0042
Delta BHC	N.D.	0.0030
Dieldrin	N.D.	0.0041
Endosulfan I	N.D.	0.0041
Endosulfan II	N.D.	0.0088
Endosulfan Sulfate	N.D.	0.0040
Endrin	N.D.	0.0056
Endrin Aldehyde	N.D.	0.016
Heptachlor	N.D.	0.0021
Heptachlor Epoxide	N.D.	0.0021
Toxaphene	N.D.	0.24
Batch number: 161620007A	Sample number(s): 8417687-8417690	
DRO C10-C28	N.D.	45
	mg/l	mg/l
Batch number: 161631848001	Sample number(s): 8417687	
Arsenic	N.D.	0.0078
Cadmium	0.00069 J	0.00064
Chromium	N.D.	0.0020
Copper	N.D.	0.0032
Lead	N.D.	0.0051
Molybdenum	N.D.	0.0021
Nickel	N.D.	0.0025
Silver	N.D.	0.0019
Zinc	N.D.	0.0042
Batch number: 161635713001	Sample number(s): 8417687	
Mercury	N.D.	0.000050
Batch number: 16167102101B	Sample number(s): 8417687	
Total Cyanide (water)	N.D.	0.0050
Batch number: 16167807901A	Sample number(s): 8417687-8417688	
HEM (oil & grease)	N.D.	1.4
Analysis Name	**Result**	**EDL**
	pg/l	pg/l
Batch number: 16169002	Sample number(s): 8417687	
2378-TCDD	N.D.	0.0832

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M161622AA	Sample number(s): 8417687								
Acrolein	150	107.78	150	109.26	72	73	60-120	1	30
Acrylonitrile	100	69.4	100	70.45	69	70	61-120	1	30
Benzene	20	22.49	20	22.62	112	113	80-120	1	30
Bromodichloromethane	20	21.83	20	21.72	109	109	77-120	0	30
Bromoform	20	17.25	20	17.17	86	86	66-125	0	30
Bromomethane	20	17.01	20	17.86	85	89	69-120	5	30
Carbon Tetrachloride	20	20.81	20	21.38	104	107	72-128	3	30
Chlorobenzene	20	19.89	20	20.25	99	101	80-120	2	30
Chloroethane	20	16.84	20	17.67	84	88	65-120	5	30
2-Chloroethyl Vinyl Ether	20	17.08	20	17.54	85	88	54-133	3	30
Chloroform	20	21.1	20	21.54	105	108	80-120	2	30
Chloromethane	20	16.75	20	17.62	84	88	64-120	5	30
Dibromochloromethane	20	18.8	20	18.41	94	92	78-120	2	30
1,1-Dichloroethane	20	17.73	20	17.93	89	90	75-123	1	30
1,2-Dichloroethane	20	21.18	20	21.57	106	108	74-120	2	30
1,1-Dichloroethene	20	17.58	20	17.76	88	89	69-122	1	30
trans-1,2-Dichloroethene	20	17.67	20	18.34	88	92	80-125	4	30
1,2-Dichloropropane	20	22.44	20	22.74	112	114	80-120	1	30
cis-1,3-Dichloropropene	20	19.61	20	19.28	98	96	80-120	2	30
trans-1,3-Dichloropropene	20	18.6	20	18.86	93	94	80-120	1	30
Ethylbenzene	20	20.21	20	20.55	101	103	80-120	2	30
Methylene Chloride	20	17.05	20	17.18	85	86	75-120	1	30
1,1,2,2-Tetrachloroethane	20	19.17	20	19.3	96	96	80-120	1	30
Tetrachloroethene	20	19.82	20	19.98	99	100	77-122	1	30
Toluene	20	20.21	20	20.26	101	101	80-120	0	30
1,1,1-Trichloroethane	20	21.21	20	21.63	106	108	72-120	2	30
1,1,2-Trichloroethane	20	20.09	20	20.04	100	100	80-120	0	30
Trichloroethene	20	21.81	20	22.08	109	110	80-120	1	30
Vinyl Chloride	20	16.99	20	17.85	85	89	68-120	5	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16162WAG625	Sample number(s): 8417687								
Acenaphthene	50	35.39	50	36.6	71	73	71-118	3	30
Acenaphthylene	50	35.81	50	37.21	72	74	70-121	4	30
Anthracene	50	45.99	50	47.03	92	94	80-114	2	30
Benzidine	250	135.32	250	153.38	54	61	21-107	13	30
Benzo(a)anthracene	50	46.79	50	48.36	94	97	76-117	3	30
Benzo(a)pyrene	50	45.83	50	47.17	92	94	76-112	3	30
Benzo(b)fluoranthene	50	46.2	50	48.33	92	97	80-120	4	30
Benzo(g,h,i)perylene	50	46.44	50	47.12	93	94	76-120	1	30
Benzo(k)fluoranthene	50	46.82	50	48.86	94	98	75-121	4	30
4-Bromophenyl-phenylether	50	45.19	50	45.44	90	91	75-118	1	30
Butylbenzylphthalate	50	47.6	50	49.46	95	99	80-125	4	30
Di-n-butylphthalate	50	46.45	50	46.8	93	94	77-116	1	30
4-Chloro-3-methylphenol	50	47.85	50	47.33	96	95	72-116	1	30
bis(2-Chloroethoxy)methane	50	47.84	50	49.02	96	98	67-122	2	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Chloroethyl)ether	50	45.91	50	45.13	92	90	74-111	2	30
bis(2-Chloroisopropyl)ether	50	39.86	50	40.03	80	80	74-116	0	30
2-Chloronaphthalene	50	24.16	50	26.47	48	53	41-144	9	30
2-Chlorophenol	50	48.24	50	46.32	96	93	68-117	4	30
4-Chlorophenyl-phenylether	50	39.74	50	41.08	79	82	76-115	3	30
Chrysene	50	47.52	50	49.11	95	98	81-118	3	30
Dibenz(a,h)anthracene	50	46.43	50	47.33	93	95	77-119	2	30
1,2-Dichlorobenzene	50	17.66	50	18.5	35	37	32-111	5	30
1,3-Dichlorobenzene	50	14.74	50	15.33	29	31	24-107	4	30
1,4-Dichlorobenzene	50	15.05	50	16.2	30	32	26-108	7	30
3,3'-Dichlorobenzidine	50	28.62	50	30.39	57	61	10-103	6	30
2,4-Dichlorophenol	50	48.98	50	49.85	98	100	79-114	2	30
Diethylphthalate	50	44.8	50	45.29	90	91	39-137	1	30
2,4-Dimethylphenol	50	43.66	50	43.19	87	86	72-110	1	30
Dimethylphthalate	50	37.98	50	39.7	76	79	33-136	4	30
4,6-Dinitro-2-methylphenol	50	46.43	50	45.8	93	92	74-120	1	30
2,4-Dinitrophenol	100	87.31	100	81.9	87	82	50-128	6	30
2,4-Dinitrotoluene	50	46.98	50	47.6	94	95	85-117	1	30
2,6-Dinitrotoluene	50	46.93	50	47.48	94	95	80-115	1	30
1,2-Diphenylhydrazine	50	45.82	50	47.23	92	94	73-119	3	30
bis(2-Ethylhexyl)phthalate	50	45.24	50	45.99	90	92	77-118	2	30
Fluoranthene	50	45.54	50	45.86	91	92	77-111	1	30
Fluorene	50	41.3	50	42.33	83	85	80-116	2	30
Hexachlorobenzene	50	46.81	50	47.67	94	95	75-116	2	30
Hexachlorobutadiene	50	8.72	50	9.75	17	20	11-113	11	30
Hexachlorocyclopentadiene	100	6.11	100	7.13	6*	7*	24-128	15	30
Hexachloroethane	50	9.89	50	10.7	20	21	11-105	8	30
Indeno(1,2,3-cd)pyrene	50	45.81	50	45.77	92	92	76-115	0	30
Isophorone	50	45.7	50	47.18	91	94	78-120	3	30
Naphthalene	50	24.93	50	26.5	50*	53	52-115	6	30
Nitrobenzene	50	45.37	50	46.75	91	93	73-113	3	30
2-Nitrophenol	50	48.62	50	49.42	97	99	83-109	2	30
4-Nitrophenol	50	23.36	50	21.61	47	43	10-83	8	30
N-Nitrosodimethylamine	50	30.65	50	29.14	61	58	28-81	5	30
N-Nitroso-di-n-propylamine	50	45.31	50	43.4	91	87	78-110	4	30
N-Nitrosodiphenylamine	50	47.67	50	48.75	95	98	77-116	2	30
Di-n-octylphthalate	50	48.05	50	49.92	96	100	79-125	4	30
Pentachlorophenol	50	46.02	50	45.87	92	92	57-116	0	30
Phenanthrene	50	45.76	50	46.6	92	93	78-112	2	30
Phenol	50	24.16	50	23.08	48	46	14-69	5	30
Pyrene	50	47.73	50	48.99	95	98	78-117	3	30
1,2,4-Trichlorobenzene	50	14.53	50	16.3	29*	33	31-118	11	30
2,4,6-Trichlorophenol	50	50.52	50	50.42	101	101	83-120	0	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 161630028A	Sample number(s): 8417687								
PCB-1016	5.05	2.90	5.05	4.55	57*	90	60-117	44*	30
PCB-1260	5.04	3.18	5.04	5.11	63	101	57-134	47*	30
Batch number: 161630029A	Sample number(s): 8417687								

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Aldrin	0.102	0.0828	0.102	0.0762	81	75	28-119	8	30
Alpha BHC	0.0980	0.0953	0.0980	0.0919	97	94	47-132	4	30
Beta BHC	0.102	0.0811	0.102	0.0823	79	81	56-125	1	30
Gamma BHC - Lindane	0.0980	0.0937	0.0980	0.0903	96	92	51-132	4	30
p,p-DDD	0.198	0.192	0.198	0.185	97	93	53-131	4	30
p,p-DDE	0.204	0.196	0.204	0.181	96	89	51-129	8	30
p,p-DDT	0.198	0.207	0.198	0.198	105	100	42-136	4	30
Delta BHC	0.102	0.0929	0.102	0.0893	91	88	57-131	4	30
Dieldrin	0.198	0.196	0.198	0.186	99	94	54-126	5	30
Endosulfan I	0.0980	0.0898	0.0980	0.0825	92	84	51-118	8	30
Endosulfan II	0.203	0.174	0.203	0.169	86	83	54-124	3	30
Endosulfan Sulfate	0.201	0.195	0.201	0.184	97	91	41-133	6	30
Endrin	0.202	0.176	0.202	0.128	87	64	35-143	31*	30
Endrin Aldehyde	0.207	0.162	0.207	0.188	78	91	40-135	15	30
Heptachlor	0.0980	0.0839	0.0980	0.0769	86	78	38-111	9	30
Heptachlor Epoxide	0.102	0.103	0.102	0.0956	100	94	56-132	7	30
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 161620007A	Sample number(s): 8417687-8417690								
DRO C10-C28	2660	2187.02	2660	2309.64	82	87	69-115	5	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 161631848001	Sample number(s): 8417687								
Arsenic	0.150	0.153			102		80-120		
Cadmium	0.0500	0.0514			103		80-120		
Chromium	0.200	0.198			99		80-120		
Copper	0.250	0.267			107		80-120		
Lead	0.150	0.155			103		80-120		
Molybdenum	2.00	1.98			99		80-120		
Nickel	0.500	0.521			104		80-120		
Silver	0.0500	0.0455			91		80-120		
Zinc	0.500	0.504			101		80-120		
Batch number: 161635713001	Sample number(s): 8417687								
Mercury	0.00100	0.000969			97		80-120		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 16167102101B	Sample number(s): 8417687								
Total Cyanide (water)	0.200	0.187	0.200	0.186	93	93	90-110	0	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 16167807901A	Sample number(s): 8417687-8417688								
HEM (oil & grease)	40	31.9	40	31.8	80	80	78-114	0	11

Analysis Name	OPR Spike Added pg/l	OPR Conc pg/l	OPRD Spike Added pg/l	OPRD Conc pg/l	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
Batch number: 16169002	Sample number(s): 8417687								
2378-TCDD	200	173.19			87		67-158		

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

MS/MSD

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

Analysis Name	Unspiked Conc mg/l	MS Spike Added mg/l	MS Conc mg/l	MSD Spike Added mg/l	MSD Conc mg/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 161631848001	Sample number(s): 8417687 UNSPK: P417700									
Arsenic	N.D.	0.150	0.154	0.150	0.164	103	109	75-125	6	20
Cadmium	0.000660	0.0500	0.0499	0.0500	0.0508	99	100	75-125	2	20
Chromium	N.D.	0.200	0.204	0.200	0.195	102	97	75-125	5	20
Copper	N.D.	0.250	0.281	0.250	0.278	112	111	75-125	1	20
Lead	N.D.	0.150	0.158	0.150	0.151	105	101	75-125	5	20
Molybdenum	0.00580	2.00	1.98	2.00	2.01	99	100	75-125	2	20
Nickel	N.D.	0.500	0.504	0.500	0.507	101	101	75-125	0	20
Silver	N.D.	0.0500	0.0456	0.0500	0.0452	91	90	75-125	1	20
Zinc	N.D.	0.500	0.538	0.500	0.518	108	104	75-125	4	20
Batch number: 161635713001	Sample number(s): 8417687 UNSPK: P417700									
Mercury	N.D.	0.00100	0.00123	0.00100	0.00103	123*	103	80-120	18	20
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16167102101B	Sample number(s): 8417687 UNSPK: P416292									
Total Cyanide (water)	N.D.	0.200	0.191			95		90-110		
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 16167807901A	Sample number(s): 8417687-8417688 UNSPK: P424633									
HEM (oil & grease)	1.56	44.9	37.53			80		78-114		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 161631848001	Sample number(s): 8417687 BKG: P417700			
Arsenic	N.D.	N.D.	0 (1)	20
Cadmium	0.000660	0.000660	0 (1)	20
Chromium	N.D.	N.D.	0 (1)	20
Copper	N.D.	N.D.	0 (1)	20
Lead	N.D.	N.D.	0 (1)	20
Molybdenum	0.00580	0.00471	21* (1)	20
Nickel	N.D.	N.D.	0 (1)	20
Silver	N.D.	N.D.	0 (1)	20
Zinc	N.D.	N.D.	0 (1)	20
Batch number: 161635713001	Sample number(s): 8417687 BKG: P417700			
Mercury	N.D.	N.D.	0 (1)	20

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/l	DUP Conc mg/l	DUP RPD	DUP RPD Max
Batch number: 16167102101B	Sample number(s): 8417687 BKG: P416292			
Total Cyanide (water)	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

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

Analysis Name: TTO VOCs 624
Batch number: M161622AA

	1,2-Dichloroethane-d4	Fluorobenzene	4-Bromofluorobenzene
8417687	108	98	87
Blank	104	97	84
LCS	103	106	92
LCSD	104	104	94
Limits:	78-118	88-107	80-118

Analysis Name: Method 625
Batch number: 16162WAG625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol
8417687	92	96	85	27	42	68
Blank	93	83	96	35	58	97
LCS	95	89	96	45	69	97
LCSD	97	91	101	42	65	95
Limits:	60-119	62-116	55-124	10-75	10-105	11-154

Analysis Name: PCBs w/ OC Pests 608
Batch number: 161630028A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8417687	76	94
Blank	81	31
LCS	102	44
LCSD	100	78
Limits:	33-137	10-148

Analysis Name: Pests (Charged with PCBs 608)
Batch number: 161630029A

	Tetrachloro-m-xylene	Decachlorobiphenyl
8417687	80	87
Blank	46	29*
LCS	68	42
LCSD	65	50

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/22/2016 17:34

Group Number: 1670205

Surrogate Quality Control (continued)

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

Limits: 29-129 32-149

Analysis Name: DRO micro-ext 8015B
Batch number: 161620007A

	Orthoterphenyl
8417687	185*
8417688	107
8417689	104
8417690	155
Blank	100
LCS	95
LCSD	100
Limits:	42-160

Analysis Name: Dioxins/Furans in Water - 1613
Batch number: 16169002

	13C12-2378-TCDD
8417687	106
Blank	115
OPR	102
Limits:	25-164

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ / MRL.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 8390 Group # 1670205 Sample # 8417687-90

Client: Groundwater & Env. Services, Inc.					Matrix				Analyses Requested																				For Lab Use Only
Project Name/#: NRG PRGS	Site ID #: NRG PRGS				☐ Sediment	☑ Ground	☐ Surface		Preservation Codes																				SF #:
Project Manager: Anne Ashley Bell	P.O. #:								H	-	-	-	-	N	N	B	H	-											SCR #:
Sampler: Jeff Plummer	PWSID #:					☐ Potable	☑ NPDES		Oil & Grease (EPA 1664A)	VOCs (EPA 624)	SVOCs (EPA 625, PPL list)	Pesticides & PCBs (EPA 608)	2,3,7,8-Tetrachlorodibenzo-p-dioxin Analysis (EPA 1613)	Metals (6010B) (Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Silver, Zinc)	Mercury (7470A)	Total Cyanide (EPA 335.4)	TPH-DRO (EPA 8015B)											Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other
Phone #: 800-220-3606 x 3704	Quote #:																												
State where sample(s) were collected: 1400 North Royal St, Alexandria, VA					☐ Soil	Water	Other:																						
Sample Identification	Collection Date	Collection Time	Grab	Composite				Total # of Containers																					Remarks
Effluent	6-8-16	1100	X			X		15	X	X	X	X	X	X	X	X	X												
Post OWS	↓	1120	X			X		4	X								X												
P&T Influent	↓	1130	X			X		2	~~X~~ (JP)								X												
TPE Influent	6-8-16	1135	X			X		2	~~X~~ (JP)								X												

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	6-9-16	0750	Denise Woodring	6-9-16	0750
Denise Woodring	6-9-16	10:36	[illegible]	6/9/16	10:36
[illegible]	6/9/16	16:00			
			E Sanchez	6-9-16	1600

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.7-0.6 °C

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 149728

Group Number(s): 1670205

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	06/09/2016 16:00
Number of Packages:	3	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	Yes
Missing Samples:	No	Air Quality Flow Controllers Present:	No
Extra Samples:	No	Air Quality Returns:	No
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 17:45 on 06/09/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.7	DT	Wet	Y	Loose	N
2	DT146	0.6	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

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F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

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

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

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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Analysis Report

Sample Description: TPE Vapor Grab Vapor
NRG PRGS - Alexandria, VA

LL Sample # AQ 8369941
LL Group # 1658305
Account # 08390

Project Name: NRG PRGS

Collected: 05/05/2016 13:45 by JP

Submitted: 05/06/2016 16:38
Reported: 05/11/2016 13:44

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	
07090	Benzene	71-43-2	< 3	3	1
07090	C1-C4 Hydrocarbons as propane	n.a.	23	18	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	51	35	1
07090	Ethylbenzene	100-41-4	< 4	4	1
07090	Toluene	108-88-3	< 4	4	1
07090	Xylene (total)	1330-20-7	< 9	9	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1613030AA	05/09/2016 17:50	Jeffrey B Smith	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 05/11/2016 13:44

Group Number: 1658305

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

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

Method Blank

Analysis Name	Result mg/m3	LOQ mg/m3
Batch number: M1613030AA	Sample number(s): 8369941	
Benzene	< 3	3
C1-C4 Hydrocarbons as propane	< 18	18
>C4-C10 Hydrocarbons hexane	< 35	35
Ethylbenzene	< 4	4
Toluene	< 4	4
Xylene (total)	< 9	9

LCS/LCSD

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1613030AA	Sample number(s): 8369941								
Benzene	32.27	29.14	32.27	28.55	90	88	71-116	2	30
Ethylbenzene	43.42	42.74	43.42	43.3	98	100	59-144	1	30
Toluene	37.69	42.36	37.69	41.42	112	110	77-143	2	30
Xylene (total)	129.4	123.39	129.4	128.65	95	99	58-148	4	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 87590 Group # 1658305 Sample # 8369941

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell	P.O. #:
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #:
State where sample(s) were collected: 1400 North Royal St, Alexandria, VA	

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Matrix: Sediment	Matrix: Potable Water	Matrix: Ground Water	Matrix: NPDES	Matrix: Surface	Matrix: Other: Vapor	Total # of Containers	Analyses Requested / Preservation Codes: BTEX C1-C4 Hydrocarbons >C4 - C10 Hydrocarbons (EPA 18 / 25)	Remarks
TPE Vapor	5-5-16	1345	X								X	2	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD
EQEDD Name: NRG PRGS.*Lab report* #.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	5-6-16	0800	Denise Wooding	5-6-16	0800
Denise Wooding	5-6-16	1125	[illegible]	5-6-16	1125
[illegible]	5-6-16	1638			

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt NA °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 145700

Group Number(s): 1658305

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	05/06/2016 16:38
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	Yes
Missing Samples:	No	Air Quality Flow Controllers Present:	No
Extra Samples:	No	Air Quality Returns:	No
Discrepancy in Container Qty on COC:	No		

Unpacked by Patrick Engle (3472) at 18:29 on 05/06/2016

2425 New Holland Pike
Lancaster, PA 17605-2425

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Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
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Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

Report Date: June 17, 2016

Project: NRG PRGS

Submittal Date: 06/09/2016
Group Number: 1670206
PO Number: NRG PRGS
Release Number: 0402859
State of Sample Origin: VA

Client Sample Description	Lancaster Labs (LL) #
TPE Vapor Grab Vapor	8417691

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

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

Electronic Copy To	GES, Inc.-MD	Attn: Anne Ashley Bell
Electronic Copy To	GES, Inc.-MD	Attn: Data Distribution

Respectfully Submitted,

Kaitlin N. Plasterer

Kaitlin N. Plasterer
Specialist

(717) 556-7323

eurofins
Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

Sample Description: TPE Vapor Grab Vapor
NRG PRGS - Alexandria, VA

LL Sample # AQ 8417691
LL Group # 1670206
Account # 08390

Project Name: NRG PRGS

Collected: 06/08/2016 13:15 by JP

Submitted: 06/09/2016 16:00
Reported: 06/17/2016 13:00

GES, Inc.
Suite A
1350 Blair Dr
Odenton MD 21113

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	
07090	Benzene	71-43-2	< 3	3	1
07090	C1-C4 Hydrocarbons as propane	n.a.	< 18	18	1
07090	>C4-C10 Hydrocarbons hexane	n.a.	< 35	35	1
07090	Ethylbenzene	100-41-4	< 4	4	1
07090	Toluene	108-88-3	< 4	4	1
07090	Xylene (total)	1330-20-7	< 9	9	1

Sample Comments

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/C1-C4/>C4-C10	EPA 18 mod/EPA 25 mod	1	M1616230AA	06/10/2016 15:38	Alexander D Sechrist	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 06/17/2016 13:00

Group Number: 1670206

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

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

Method Blank

Analysis Name	Result mg/m3	LOQ mg/m3
Batch number: M1616230AA	Sample number(s): 8417691	
Benzene	< 3	3
C1-C4 Hydrocarbons as propane	< 18	18
>C4-C10 Hydrocarbons hexane	< 35	35
Ethylbenzene	< 4	4
Toluene	< 4	4
Xylene (total)	< 9	9

LCS/LCSD

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M1616230AA	Sample number(s): 8417691								
Benzene	31.95	34.51	31.95	34.3	108	107	71-116	1	30
Ethylbenzene	43.42	47.55	43.42	47.1	110	108	59-144	1	30
Toluene	37.69	53.52	37.69	52.76	142	140	77-143	1	30
Xylene (total)	130.27	142.62	130.27	141.08	109	108	58-148	1	30

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 1670206 Sample # 8417691

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell	P.O. #:
Sampler: Jeff Plummer	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #:
State where sample(s) were collected: 1400 North Royal St, Alexandria, VA	

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Sediment	Ground	Surface	Soil	Potable	NPDES	Vapor	Total # of Containers	BTEX C1-C4 Hydrocarbons >C4 - C10 Hydrocarbons (EPA 18 / 25)	Remarks
TPE Vapor	6-8-16	1315	X								X	2	X	

Analyses Requested / Preservation Codes: -

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: mdlabs@gesonline.com & ges@equisonline.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD

EQEDD Name: NRG PRGS.*Lab report #*.25800.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Plummer	6-9-16	0750	Denise Woodring	6-9-16	0750
Denise Woodring	6-9-16	10:36	[illegible]	6/9/16	10:36
[illegible]	6/9/16	16:00			
			E Smith	6-9-16	1600

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt NA °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 149728

Group Number(s): 1670206

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	06/09/2016 16:00
Number of Packages:	3	Number of Projects:	1
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	Yes
Missing Samples:	No	Air Quality Flow Controllers Present:	No
Extra Samples:	No	Air Quality Returns:	No
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 17:45 on 06/09/2016

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	0.7	DT	Wet	Y	Loose	N
2	DT146	0.6	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425

T 717-656-2300
F 717-656-2681
www.LancasterLabs.cor

Explanation of Symbols and Abbreviations

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

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
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