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GenOn

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January 30, 2019

Via email delivery only

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

Re: Quarterly 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 Quarterly CAP Implementation Monitoring Report (CMR).

The following activities were conducted during the Fourth Quarter of 2018:

- Twice monthly liquid level gauging of select site monitoring wells;
- Routine quarterly gauging, headspace monitoring, water quality measurements, and sampling of groundwater was conducted on November 12-14, 2018;
- Monthly flow meter certification submittals to Alexandria Renewal Enterprises (AlexRenew);
- Quarterly submittal of a Self-Monitoring Report (SMR) to AlexRenew;
- Connection of deep zone pumping wells (RW-05, RW-25, RW-51, and RW-14) to the existing shallow zone TPE system was completed on November 1, 2018;
- Periodic cycling of the TPE system, with cycles starting when personnel are onsite for routine O&M; and
- Connection of monitoring well TW-05 to the existing TPE system to extract fluids and vapors from the well for a period of five to six hours twice a month during routine O&M and gauging events.

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

Sincerely,

Mark G. Nitz, P.E.
Environmental Specialist

cc: J. Rodriguez, DOEE; K. Tran, City of Alexandria, VA; P. McCallum, NPS

GenOn Mid-Atlantic (GenMa)

Quarterly CAP Implementation Monitoring Report

Potomac River Generating Station

1400 North Royal Street

Alexandria, VA
PC #2013-3154

January 30, 2019

Quarterly CAP Implementation Monitoring Report

Potomac River Generating Station
1400 North Royal Street
Alexandria, VA

Prepared for:
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1 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES) has prepared this Fourth Quarter 2018 CAP Implementation Monitoring Report (CMR) on behalf of GenOn Mid-Atlantic (GenMa), 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 4th Quarter 2018:

- The biosparge system remained off during the 4th Quarter 2018;
- The pump and treat (P&T) system remained off during the 4th Quarter 2018;
- The total phase extraction (TPE) system operated this Quarter and additional P&T wells were connected to the TPE system;
- Twice per month gauging of select wells;
- Comprehensive gauging of all accessible site groundwater wells on November 12, 2018;
- Down-well water quality measurements recorded on November 12, 2018, of select site groundwater wells to monitor dissolved oxygen, pH, temperature, oxidation reduction potential (ORP) and conductivity;
- Quarterly groundwater sampling on November 12-14, 2018, from select site groundwater wells for total petroleum hydrocarbons – diesel range organics (TPH-DRO), as well as from select wells for biological indicator parameters including Alkalinity (SM 2320B), Nitrate NO_3^- & Nitrite NO_2^- (EPA 353.2), Manganese (Mn^{2+}), Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-199), Sulfate SO_4^{2-} (EPA 300.0) and Methane (RSKSOP-175 modified);
- Headspace vapor measurements recorded on November 12 and 13, 2018 from select site groundwater wells to monitor the presence of volatile organic compounds (VOCs), oxygen, carbon dioxide, and methane; and
- Quarterly submittal of Self-Monitoring Report (SMR) to 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-fired power plant ceased operation.

The VDEQ opened PC #2013-3154 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.

During the 2nd Quarter 2015, GES initiated remediation system installation on site with the install of eight total phase extraction (TPE), three standard compliance/delineation monitoring, and six air sparge wells from June 22, 2015 to July 8, 2015. On June 26, 2015, Product Recovery Management, Inc. (PRM) was chosen to construct the remediation system after winning the three-vendor bid system process for the system design and procurement packages. On October 15, 2015, the remediation system was delivered to the Site. GES selected Odyssey Environmental Services (Odyssey) to install the system's piping to the onsite TPE, pump and treat (P&T), and air sparge wells and began piping installs on September 28, 2015, which continued through October 2015. GES worked to obtain a Special Use Permit from the National Park Service (NPS) for offsite access and system install activities throughout 2nd and 3rd Quarters 2015.

During the 4th Quarter 2015, power connections to the onsite system and aboveground piping and wellhead connections for 8 onsite air/biosparge wells, 11 TPE wells, and 5 P&T wells was completed. Pumps were installed in the P&T wells and the treated groundwater discharge line to an AlexRenew sanitary sewer tie-in location was installed. On November 12, 2015 a draft Special

Use Permit was issued by NPS. GES sent a final permit package for groundwater discharge authorization to AlexRenew on November 20, 2015.

During the 1st Quarter 2016, all remaining installation tasks associated with the remediation system were completed, except for offsite installs on the NPS property. On January 13, 2016, AlexRenew issued an approval letter with special requirements for discharge. The onsite remediation system was started on March 14, 2016.

NPS authorized a final Special Use Permit on February 11, 2016 for planned field activities on NPS property. Once GES obtained the NPS Special Use Permit, installation of the offsite remediation system and bulkhead wall seep sealing were initiated. CAP-II requirements to repair and seal the bulkhead wall seep were completed between April and June 2016. A total of 6 bulkhead 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. On April 4, 2016, Odyssey and GES mobilized to the site to clear vegetation for the installation of seven new biosparge points (SP-09, SP-10, SP-11, SP-12, SP-13, SP-14, and SP-15) on NPS property. Remediation trenching, piping, well head modifications and tie-ins, and manifold connections were completed from April 13 through April 18, 2016, and the seven biosparge wells were brought online on May 3, 2016. GES worked on the agreement and implementation of the site restoration with the NPS from April 25 through May 17, 2016. On May 16, 2016 tree planting was initiated under GES supervision.

Because of the hydrocarbon reductions that had occurred and unfavorable conditions being created through the addition of dissolved oxygen, GES, on behalf of GenOn, requested and was granted a trial shutdown of the remediation system (TPE, P&T, and biosparge) during a stakeholder meeting on March 20. 2018. The system was officially shut down during the O&M visit on March 29, 2018.

Due to observed rebound of hydrocarbon concentrations and the presence of LNAPL in TW-05, cycling of the P&T and TPE systems began on August 6, 2018 and September 21, 2018, respectively.

On October 10, a new NPS Special Use Permit, NCR-GWMP 6000-18-152, was granted to GenOn for continued monitoring on the NPS property adjacent to the site through October 31, 2020.

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 condominiums and office buildings. To the east, the site is bordered by the NPS Mt. Vernon Trail, beyond which lies the Potomac River.

2 SITE CHARACTERIZATION AND MONITORING ACTIVITIES

A Well Construction Table, included as **Table 1**, details well construction of monitored and sampled wells. The Groundwater Monitoring and Sampling Plan, included as **Table 2**, details the 4th Quarter 2018 sampling of Site monitoring and recovery wells. The following site characterization and monitoring activities were conducted during the 4th Quarter 2018:

- October – December 2018:
  - Twice per month gauging of select groundwater wells, and
  - Top of casing survey of select wells that are connected to the TPE system.
- November 12 and 13, 2018:
  - Site-wide gauging and headspace vapor monitoring and collection of down-well field parameters of select groundwater wells.
- November 12-14, 2018:
  - Gauging and groundwater sampling of accessible site groundwater wells in accordance with the Groundwater Monitoring and Sampling Plan. 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 4th Quarter 2018, all accessible site groundwater wells, including wells in the basement, were gauged during a comprehensive gauging event on November 12, 2018. Select groundwater wells that historically exhibited measureable LNAPL or elevated dissolved phase hydrocarbon concentrations were also gauged on a twice per month basis. Gauging events conducted during the 4th Quarter 2018 are summarized below:

- Gauging of select wells:
  - October 2, 2018
  - October 25, 2018
  - November 27, 2018
  - December 11, 2018
  - December 27, 2018
- Site-wide gauging of all accessible wells:
  - November 12, 2018

Historical and 4th Quarter 2018 groundwater and LNAPL elevation data are presented in **Table 3** – Historical Groundwater Monitoring and Analytical Data Summary.

Site-wide gauging was conducted on November 12, 2018 in accordance with the tidal cycle of the Potomac River. On November 12, 2018, high tide at the site occurred at 12:27 pm. Multiple personnel gauged the site wells as quickly as possible bracketing the river's high tide, with priority given to gauging of the deep wells as they are the ones affected by the tidal cycle. This approach minimized the impact of tidal influence on groundwater elevation data. During comprehensive gauging on November 12, 2018, measured groundwater depths ranged from 0.28 feet below ground surface (bgs) in MW-105 to 27.20 feet bgs in MW/RW-14. LNAPL was not detected during 4th Quarter monitoring activities.

Groundwater contour maps representing shallow zone and deep zone data, respectively, from the November 12, 2018 comprehensive gauging event are presented as **Figure 4** and **Figure 5.** The shallow zone groundwater contour map shows flow is generally to the east-northeast towards the Potomac River. The deep zone groundwater contour map shows depressions around MW-109 and RW-1, and a general flow pattern to the northeast, toward the Potomac River. Mounding was observed in RW-05. The calculated hydraulic gradient at the site was approximately 0.01 feet per foot in the shallow zone during the November 2018 monitoring event and 0.02 feet per foot in the deep zone.

2.1 Headspace Vapor Monitoring

Monitoring well vapor headspace readings were collected at select groundwater wells on November 12 and 13, 2018 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 VOCs, 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 4** – Historical Groundwater Field Parameters Data Summary.

2.2 Groundwater Sampling

On November 12-14, 2018, groundwater samples were collected from 43 groundwater monitoring/recovery wells (MW-01S, MW/RW-05, MW-08S, MW-11, MW/RW-10S, MW/RW-14, MW-15S, MW-16, MW-25S, MW/RW-25, MW-27, MW/RW-31, MW-33, MW-51S, MW/RW-51, MW-72S, MW/RW-72, MW-100S, MW-100, MW-106, MW-107, MW-108, MW-109S, MW-109, MW-110S, MW-110, MW-111, MW-112S, MW-112, MW-113, MW-114, MW-121, MW-122, MW/RW-123S, RW-1, RW-05S, RW-25S, RW-28S, RW-30S, RW-116S, RW-117S, RW-118S, and RW-119S) and 7 temporary wells (TW-02, TW-03, TW-04, TW-05, TW-06, TW-07, and TW-14) using disposable bailers or a peristaltic pump. Monitoring well TW-12S was not sampled during the 4th Quarter 2018 sampling event due to insufficient water. The groundwater monitoring

and sampling plan used this Quarter, which includes the additional parameters that were analyzed, is presented in **Table 2**.

Each monitoring well was gauged prior to purging and sampling, and gauging data is presented in **Table 3**. Prior to the collection of groundwater samples, a minimum of three well volumes of water was purged from each monitoring well using dedicated bailers or a peristaltic pump.

Select wells containing minimal volumes of water were not purged, and grab samples were immediately collected. Purge water was stored in drums onsite and will be removed by Triumvirate Environmental for treatment and disposal at a later date. Groundwater samples were collected directly in laboratory provided bottleware, packaged on ice in coolers, and transported under proper chain of custody to Eurofins Lancaster Laboratories (Eurofins) in Lancaster, PA. Samples were requested to be analyzed for the following:

- Quarterly parameters (select wells)
    - Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO)
- Annual parameters (select wells)
    - Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and Naphthalene
- Biological indicator parameters (select wells)
    - Alkalinity
    - Nitrate (NO_3^-)
    - Nitrite (NO_2^-)
    - Manganese (Mn^{2+})
    - Ferrous Iron (Fe^{2+})
    - Sulfate (SO_4^{2-})
    - Methane

TPH-DRO, BTEX, and naphthalene analytical results are presented in the Historical Groundwater Monitoring and Analytical Data Summary included as **Table 3** and discussed further in **Section 2.3**. Concentration trend graphs are included as **Attachment A** and discussed further in **Section 2.3**. The analytical results for biological indicator parameters are presented in the Historical Groundwater Biostimulation Analytical Data Summary provided as **Table 5** and discussed further in **Section 2.3**.

The complete laboratory reports and chain of custody documentation for the groundwater sampling event conducted in November 2018 are included in **Attachment B**.

2.3 Groundwater Analytical Findings

During the 4th Quarter 2018, 50 monitoring, recovery and temporary wells were sampled for TPH-DRO during the quarterly groundwater sampling event in November. Historical BTEX, methyl tert-butyl ether (MTBE), tert-butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, naphthalene, and

TPH-GRO data are also presented for select wells in the Historical Groundwater Monitoring and Analytical Data Table (**Table 3**). Two TPH-DRO contour maps representing shallow zone data and deep zone data, respectively, from the 4th Quarter 2018 sampling event, are presented as **Figure 6** and **Figure 7**. **Figure 8** summarizes BTEX and Naphthalene concentrations in select wells. The results from the collection and analysis of groundwater samples during the 4th Quarter 2018 are presented below:

- TPH-DRO was detected in 38 of the 43 groundwater monitoring wells sampled during the quarterly sampling event in November, with a maximum concentration of 110,000 micrograms per liter (µg/L) in recovery well RW-25S. TPH-DRO was detected in five temporary wells sampled (TW-03, TW-04, TW-05, TW-06, and TW-07), with a maximum concentration of 1,500 µg/L in temporary well TW-05.
- Benzene was detected in 4 of the 15 groundwater monitoring wells during the sampling event in November, with a maximum concentration of 2 µg/L in recovery well MW/RW-51. Benzene was not detected in the seven temporary wells.
- Toluene was detected in 1 of the 15 groundwater monitoring wells during the sampling event in November, with a maximum concentration of 0.3 J µg/L in recovery well MW-25S. A J qualifier indicates the concentration is estimated. Toluene was not detected in the seven temporary wells.
- Ethylbenzene was detected in 4 of the 15 groundwater monitoring wells during the sampling event in November, with a maximum concentration of 2 µg/L in recovery well MW/RW-51. Ethylbenzene was not detected in the seven temporary wells.
- Total Xylenes were detected in 3 of the 15 groundwater monitoring wells during the sampling event in November, with a maximum concentration of 8 µg/L in recovery well MW/RW-72. Total xylenes were not detected in the seven temporary wells.
- Naphthalene was detected in 2 of the 15 groundwater monitoring wells during the sampling event in November, with a maximum concentration of 12 µg/L in recovery well MW/RW-72. Naphthalene was detected in four of the seven temporary wells with a maximum concentration of 1 µg/L.

Concentration trend graphs are presented in **Attachment A**, showing historical and current benzene, naphthalene, and TPH-DRO concentrations, depths to water, and depths to LNAPL for select monitoring, recovery, and temporary wells. Trends observed as of 4th Quarter 2018 are presented below:

- TPH-DRO concentrations have an overall increasing trend in wells RW-1, MW/RW-25, MW/RW-72, MW/RW-72S, RW-118S, TW-03 and TW-05. TPH-DRO concentrations have an overall decreasing trend in wells MW-25S, MW-27, MW/RW-31, RW-25S, RW-28S, RW-30S, MW/RW-51, MW/RW-123S, TW-06, and TW-07. TPH-DRO concentrations have a recent decreasing trend in wells RW-05S, MW/RW-14, MW-51S, and MW-119S. TPH-DRO concentrations are relatively stable in wells MW-01S, MW-08S, MW/RW-10S,

RW-116S, and TW-04. No clear trend can be established in wells MW/RW-05 and RW-117S.

- In wells that have been sampled for naphthalene enough times to establish a trend, an overall decreasing trend is observed in wells MW-08S, MW-27, MW/RW-72, MW/RW-72S, TW-03, TW-04, TW-05, TW-06, and TW-07. A relatively stable trend is observed in well MW/RW-10S.
- In wells that have been sampled for benzene enough times to establish a trend, an overall decreasing trend is observed in wells MW-08S, MW/RW-72S, and MW/RW-72. Wells MW-27, TW-03, TW-04, TW-05, TW-06, and TW-07 have an overall stable or decreasing trend with low or non-detect concentrations. **Figure 8** summarizes BTEX and Naphthalene concentrations in select wells. Based on the very low or non-detectable concentrations of BTEX, it is recommended that future sampling for BTEX during annual events be suspended.

Biological indicator 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 5,** and a Historical Groundwater Field Parameters Data Summary is presented as **Table 4.**

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 indicate that due to system

start-up in March 2016, site conditions within the dissolved hydrocarbon plume changed from anaerobic to aerobic. Following system shutdown in March 2018, site conditions have begun to revert to anaerobic. Based on a review of the biological indicator data and the field parameters, the following specific observations have been made:

Background

- 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.

DO

- During the 4th Quarter 2018, DO concentrations were considered aerobic (> 1.0 mg/L) in all of the shallow zone aquifer wells measured (MW-01S, RW-05S, MW/RW-10S, MW-15S, MW-25S, RW-25S, RW-28S, RW-30S, MW-51S, MW/RW-72S, MW-100S, RW-116S, RW-117S, MW/RW-123S, and TW-14) and in 9 of 11 deep zone wells measured. Temporary wells TW-03 and TW-07 had concentrations of < 1.9 mg/L. The deep zone recovery wells were connected to the TPE system the week prior, and DO results suggest that the system is contributing oxygen to the subsurface.

ORP

- ORP values were positive in 11 of the 13 measured shallow zone aquifer wells (MW-01S, MW/RW-10S, RW-25S, RW-28S, RW-30S, MW/RW-72S, MW-100S, RW-116S, RW-117S, MW/RW-123S, and TW-14) and in 12 of the 16 measured deep zone aquifer wells (MW/RW-05, MW/RW-14, MW/RW-25, MW-27, MW/RW-72, MW-100, MW-106, MW-121, TW-03, TW-05, TW-06 and TW-07) during the quarterly groundwater monitoring event in November. Positive ORP values are indicative of aerobic conditions. Wells with negative ORP readings included MW-51S and RW-05S in the shallow zone aquifer, and MW/RW-51, MW-122, and RW-1 in the deep zone aquifer.

Alkalinity

- Alkalinity concentrations remained stable or declined at a number of wells during the 4th Quarter 2018. Alkalinity was not detected in 6 of the 29 wells where it was measured (MW/RW-10S, MW/RW-72S, MW/RW-72, MW-106, RW-116S, and RW-117S). Loss of alkalinity is indicative of acid production in the subsurface associated with aerobic conditions. Alkalinity concentrations will continued to be monitored as the TPE system operates and adds oxygen to the subsurface.

pH

- The pH monitoring conducted during groundwater sampling on November 12, 2018 was determined to be inaccurate for data collected using one of the instruments. GES collected

new pH measurements from select wells on November 27, 2018. In the recovery wells connected to the remediation system, a majority (MW/RW-01S, RW-05, RW-25, MW-51S, MW/RW-51, MW/RW-123S, RW-05S, and RW-25S) exhibited slight decreases in pH but remained above 6.0. Four of the recovery wells (MW/RW-10S, MW/RW-14, RW-116S, and RW-117S) were between 5.60 and 5.93. One recovery well (MW-25S) was below 5.5 (5.17). Because of the low pH in MW-25S, the well was temporarily shut off as a recovery well. Since the other recovery wells did not show significant declines in pH, cycling of the wells continued. Of the four temporary wells, slight increases were observed in TW-03 and TW-06; TW-07 slightly decreased to 4.87; and TW-05 was 5.11 after not being monitored in the 3rd Quarter.

Nitrate

- Nitrate was detected in two of the four shallow zone aquifer wells where it was measured (MW/RW-72S and MW-100S) and in five of the nine deep zone aquifer wells where it was measured (MW-11, MW-100, MW-106, TW-05 and TW-06).

Nitrite

- Nitrite, an intermediate in denitrification, was detected in one of the shallow zone aquifer wells where it was measured (MW-100S) and in one of the nine deep zone aquifer wells where it was measured (MW-121). Based on the nitrate and nitrite data, nitrate reduction is not a significant mechanism of anaerobic degradation at the site.

Manganese

- No significant changes were observed in concentrations of dissolved manganese, aside from MW-122 (which increased from 6.58 to 87 mg/L). Select wells show increasing concentrations of dissolved manganese, suggesting there has been some degree of manganese reductions in the vicinity of these wells. However, some of these wells are currently aerobic based upon DO and ORP readings, which should limit further manganese reduction. Other wells, including MW/RW-10S, MW/RW-72S, and TW-05 have begun to show decreasing concentrations of dissolved manganese.

Ferrous Iron

- Decreases in ferrous iron were observed since the 3rd Quarter 2018 in the majority of wells where it was measured. This is likely associated with elevated oxygen levels from resumed system operation causing oxidation of ferrous iron and decreased anaerobic biodegradation.

Sulfate

- Sulfate concentrations remained generally high during the 4th Quarter 2018, although a majority of wells showed decreasing concentrations between the 3rd and 4th quarters of 2018. As noted in previous reports, the predominance of sulfur in the system is likely associated with historic power plant operations. When combined with oxygen, high

concentrations of sulfur may reduce pH by conversion to sulfuric acid and/or sulfurous acid. With the ongoing operation of the TPE system, sulfate concentrations and associated changes in pH will continue to be monitored. However, sulfate concentrations currently indicate continued cycling of the system is feasible with limited detrimental effects. **Figures 11** and **12** show sulfate concentrations in shallow and deep zone wells, respectively.

Methane

- Methane concentrations across the site are generally lower than historic levels, suggesting that methanogenesis is not currently a significant process at the site.

3 REMEDIATION SYSTEM OPERATION

Portions of the remediation system operated during the 4th Quarter 2018, in accordance with the remedial strategy recommendations proposed in the 2nd Quarter 2018 monitoring report. The remediation system consists of three separate systems: total phase extraction (TPE), pump and treat (P&T), and biosparge. The locations of the current wells used for each system are shown on the Remediation System Layout Map (**Figure 13**). The TPE system operated during a portion of the 4th Quarter 2018, with specifics provided below. The P&T system has been shut down since September 12, 2018, while the biosparge system has been shut down since March 2, 2018. The reporting period for the 4th Quarter 2018 was from October 2, 2018 to December 27, 2018, and was controlled by the O&M schedule. Activities of note completed during the 4th Quarter 2018 included:

- Bi-monthly gauging/O&M visits were performed on October 2, 9, and 24, November 1, 14, and 28, and December 11 and 27, 2018.
- The Quarterly Self-Monitoring Report (SMR) for 3rd Quarter 2018 was submitted to AlexRenew by October 10, 2018.
- On October 18, and 24 and November 1, 2018, deep zone P&T wells RW-05, RW-25, RW-51, and RW-14 were connected to the shallow zone TPE system.
- On November 27, 2018, TPE well MW-25S was turned off due to low pH.

The TPE system operated for approximately 41 days during the reporting period. TW-05 was temporarily connected to the TPE system during 6 days of the reporting period, operating for approximately 5 hours each time. The average vapor flow rate for the reporting period was 326 standard cubic feet per minute (scfm). The total groundwater recovered for the reporting period was 242,723 gallons with an average flow rate of 4.12 gallons per minute (gpm). The cumulative groundwater flow, including flow data from before the trial system shutdown, was 333,624 gallons by the end of the reporting period. The estimated vapor C1-C10 hydrocarbon recovery for the reporting period was 32.9 pounds (lbs), and the estimated groundwater TPH-DRO recovery for the reporting period was 20.3 lbs. A TPE Operational Summary is included as **Table 7,** TPE

recovery data is included in **Table 10,** system analytical reports are included in **Attachment D** and system performance graphs are included in **Attachment C**.

The P&T system was not operated during the reporting period; it was deactivated on September 12, 2018. The cumulative groundwater recovery since initial system startup was 1,327,739 gallons. No additional LNAPL was recovered by the oil/water separator. A P&T Operational Summary is included as **Table 8,** P&T recovery data is included in **Table 10.**

The biosparge system was not operated during the reporting period. A Biosparge Operational Summary is included as **Table 9.**

The total estimated hydrocarbon recovery to date is 3,196 lbs (436 gallons). This includes 157 lbs of dissolved-phase, 2,954 lbs of vapor-phase, and 85 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 10**.

Hydrocarbon Recovery:

Dissolved-Phase Hydrocarbons (Period/Cumulative): **20.3 lbs / 157 lbs**

Vapor-Phase Hydrocarbons (Period/Cumulative): **32.9 lbs / 2,954 lbs**

Liquid-Phase Hydrocarbons (Period/Cumulative): **0 lbs / 85 lbs**

Total Hydrocarbon Recovery (Period/Cumulative): **53.2 lbs /3,196 lbs**

3.1 Permit Summary

Special Use Permit

Required for: Work along the NPS Trail

Issued by: National Parks Service

Status: Special Use Permit NCR-GWMP 6000-18-152 is effective 11/1/2018 – 10/31/2020.

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: Final approval to discharge was granted on March 11, 2016. The permit was renewed, effective January 1, 2018. In accordance with the requirements of the new permit, SMR submittals will occur quarterly. Monthly flow meter certifications are submitted by the 10th of each month,

Air Permit	Not Required due to uncontrolled emissions less than 25 tons per year.

4 REMEDIAL STRATEGY EVALUATION & RECOMMENDATIONS

GES, on behalf of GenOn, requested and was granted a trial shutdown of the remediation system (TPE, P&T, and biosparge) during a stakeholder meeting on March 20, 2018. At the time the approval was granted, no LNAPL was being recovered by the system and hydrocarbon recovery by the system had significantly declined. The remedial goal of naphthalene concentrations being below 10 µg/L had been achieved. In addition, with the exception of TW-05, no LNAPL had been observed in any monitoring or recovery well since February 2017. Ten wells had TPH-DRO concentrations exceeding the cleanup goal of 15,000 µg/L; however, based on silica gel cleanup concentrations, the majority of the TPH-DRO was in the form of petroleum metabolites. In addition, operation of the system had introduced significant amounts of oxygen into the subsurface. Due to the presence of high amounts of sulfur in the aquifer, the introduction of oxygen lead to the creation of sulfuric and sulfurous acid, dramatically lowering the pH in a number of wells and leading to the desorption of petroleum metabolites from the soil, thereby increasing dissolved TPH-DRO concentrations. The system was officially shut down during the O&M visit on March 29, 2018, although the system had not been operational for several weeks prior due to a problem with the air compressor.

Two sets of criteria were established by which to evaluate the condition of the aquifer during the trial system shutdown. The first was based on the presence of LNAPL and the second on increases in TPH-DRO concentrations.

Based on rebounds of TPH-DRO observed in select source area wells and the increasing concentration of TPH-DRO in well TW-05, at the end of the 2nd Quarter 2018, it was recommended to initiate cycled operation of the TPE and P&T systems, including TPE extraction from TW-05 for five to six hours twice per month. Cycled operation of the system allows groundwater with elevated concentrations to be removed from the aquifer without allowing sufficient oxygen to be introduced to negatively affect pH.

In the third Quarter, the above recommendations were implemented with operation of the P&T system beginning on August 6, 2018 and operation of the TPE system beginning on September 21, 2018. However, a major breakdown of the air compressor occurred on September 12, 2018, preventing continued operation of the P&T system. To avoid unnecessary downtime and major equipment replacement related to these problems it was recommended that the deep zone pumping wells (RW-05, RW-25, RW-51 and RW-14) be connected to the existing shallow zone total phase extraction system. This approach was verbally approved by the VADEQ on October 11, 2018 and documented in a subsequent email dated October 12, 2018. The conversion was completed from October 18 to November 1, 2018.

Current System Operation

The system has continued to be periodically cycled, with cycles starting when personnel are onsite for routine O&M. Based on operation to date, widespread sharp pH declines have not occurred and, due to the high water table, the system is extracting higher volumes of groundwater and less vapor (introducing less oxygen). As a result, the TPE system cycle duration was extended to approximately one week twice per month. Gradual pH declines have been observed in select wells; MW-25S was turned off when the pH got below 5.50 on November 27, 2018. The wells will continue to be monitored and individual wells can be turned off as necessary.

Future System Operation

Cycle duration in the 1st Quarter 2019 will vary based on groundwater monitoring data, but is anticipated to be approximately one week following each O&M visit, for a total of two weeks per month. It is proposed to conduct system operation in the manner described above through the end of the 1st Quarter 2019, and then tentatively shut the system down to monitor potential rebound during the 2nd Quarter of 2019. Shutdown of the system at the end of the 1st Quarter 2019 will be further evaluated pending results of 1st Quarter 2019 sampling. During the 4th Quarter 2018, only three wells exceeded the remedial goal for TPH-DRO (RW-05S, RW-25S, and MW/RW-51). If groundwater concentrations continue to decline in these wells, the remedial endpoints for operation of the active remediation systems described in the Corrective Action Plan can likely be demonstrated to be met.

Low-Flow Groundwater Sampling

In order to get more reliable groundwater concentrations and allow for a consistent sampling method across the entire site, during the 1st Quarter 2019 groundwater sampling event scheduled for February 2019, low flow sampling is proposed at the site. Some differences have been observed between the low flow and purge and grab samples collected in the wells along the river. We believe these are due to the difference in sampling techniques and specifically the increased likelihood of pulling in sediments when sampling using a three-volume purge. This would have the most effect in wells with significant turbidity and/or low volumes of water. We would expect the sediments being pulled into the samples to be rich in biological organics and sorbed petroleum hydrocarbons. These would artificially inflate the concentration of DRO in the groundwater when the sediment is included in the sample. Low-flow sampling is the proposed groundwater collection methodology as sampling is completed with minimal physical and chemical alterations from sampling operations (USEPA, 1996 & 2017). By reducing the quantity of sediment introduced to the samples, we hope to more accurately capture the mobile, dissolved contamination in the groundwater that has the potential to migrate to the river.

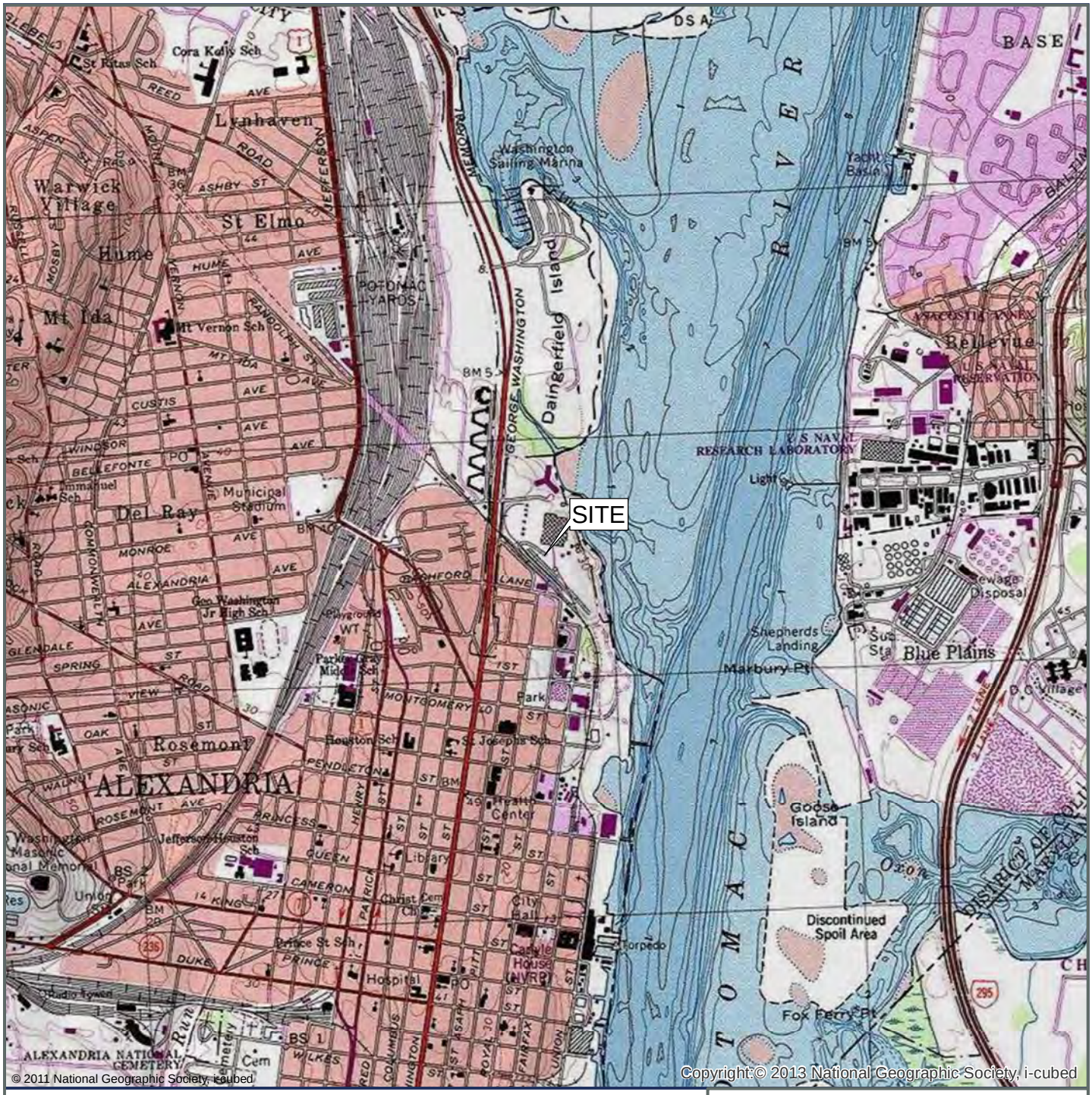
BTEX Monitoring

Based on the results of the annual sampling for BTEX, it is recommended that no further sampling for BTEX be completed.

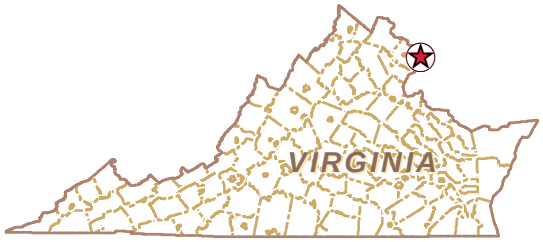
5 Future Activities (1st Quarter 2019)

- Bi-Monthly gauging of wells that have historically shown the presence of LNAPL;
- Quarterly groundwater sampling using low flow sampling methods;
- Continue cycled operation of the TPE system;
- Submittal of a quarterly CMR; and
- Submittal of a quarterly SMR to AlexRenew.

Figures



Sources:
USGS 7.5 Minute Series Topographic Quadrangles
Alexandria



Site Location Map

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn	Date
GKS	4-17-18
Designed	Figure
DMC	1
Approved	
-	

N W E S

Scale In Feet (Approximate)
0 2,000

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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 TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- POTOMAC RIVER
- PROPERTY BOUNDARY

Site Layout Map

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn: GKS	Date: 1-15-19
Designed: DMC	Figure: 2
Approved: AAB	

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

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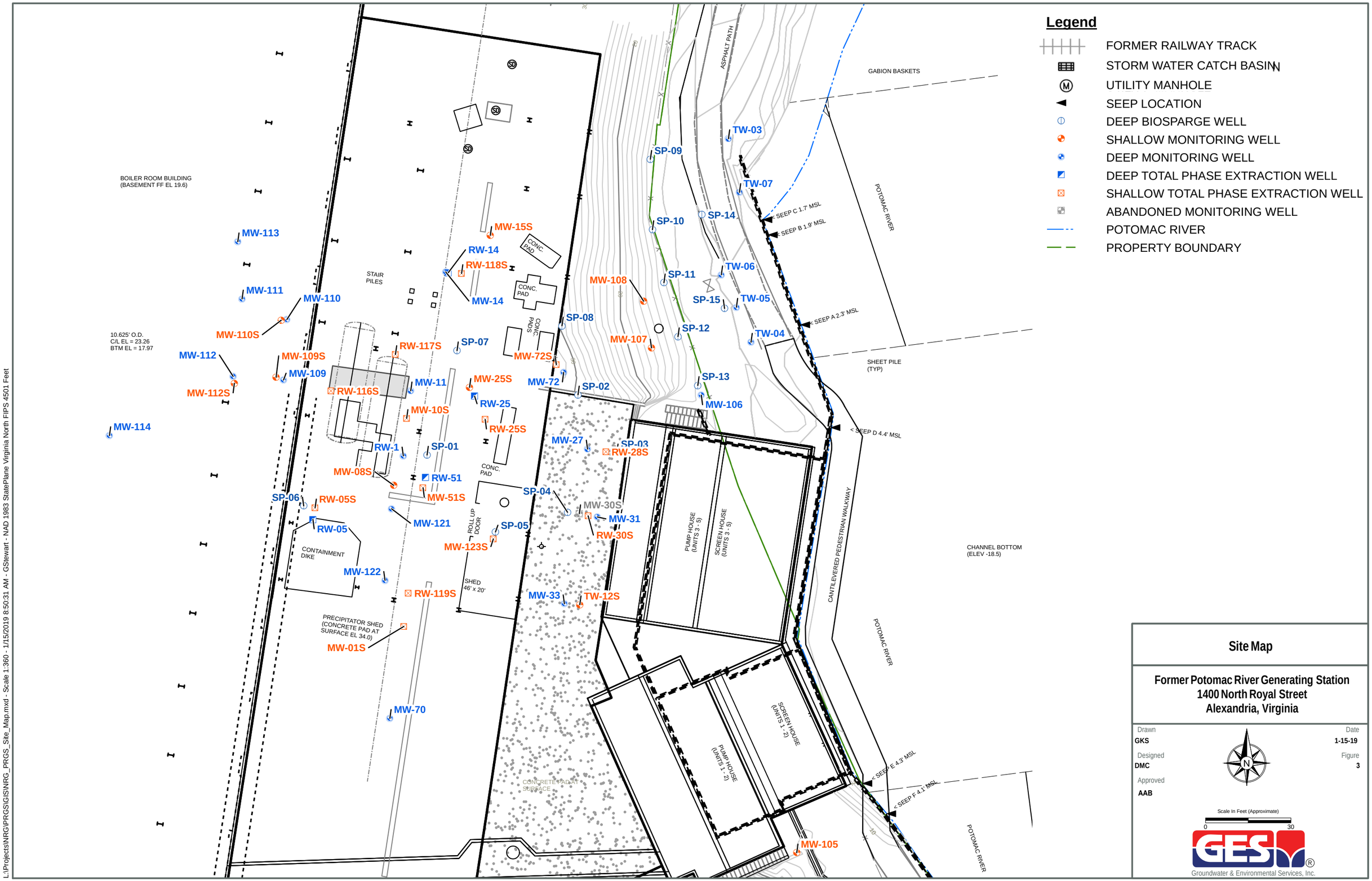

Site Map

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn: GKS	Date: 1-15-19
Designed: DMC	Figure: 3
Approved: AAB	

Scale In Feet (Approximate): 0 – 30

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Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITY MANHOLE
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- POTOMAC RIVER
- PROPERTY BOUNDARY
- (8.57) GROUNDWATER ELEVATION (FT)
- NG NOT GAUGED

Note:
Groundwater elevation at MW-104 was considered anomalous and was therefore excluded from contour analysis.

Potentiometric Surface
Shallow Zone Aquifer - November 13, 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn	Date
GKS	1-22-19
Designed	Figure
DMC	4
Approved	
AAB	

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

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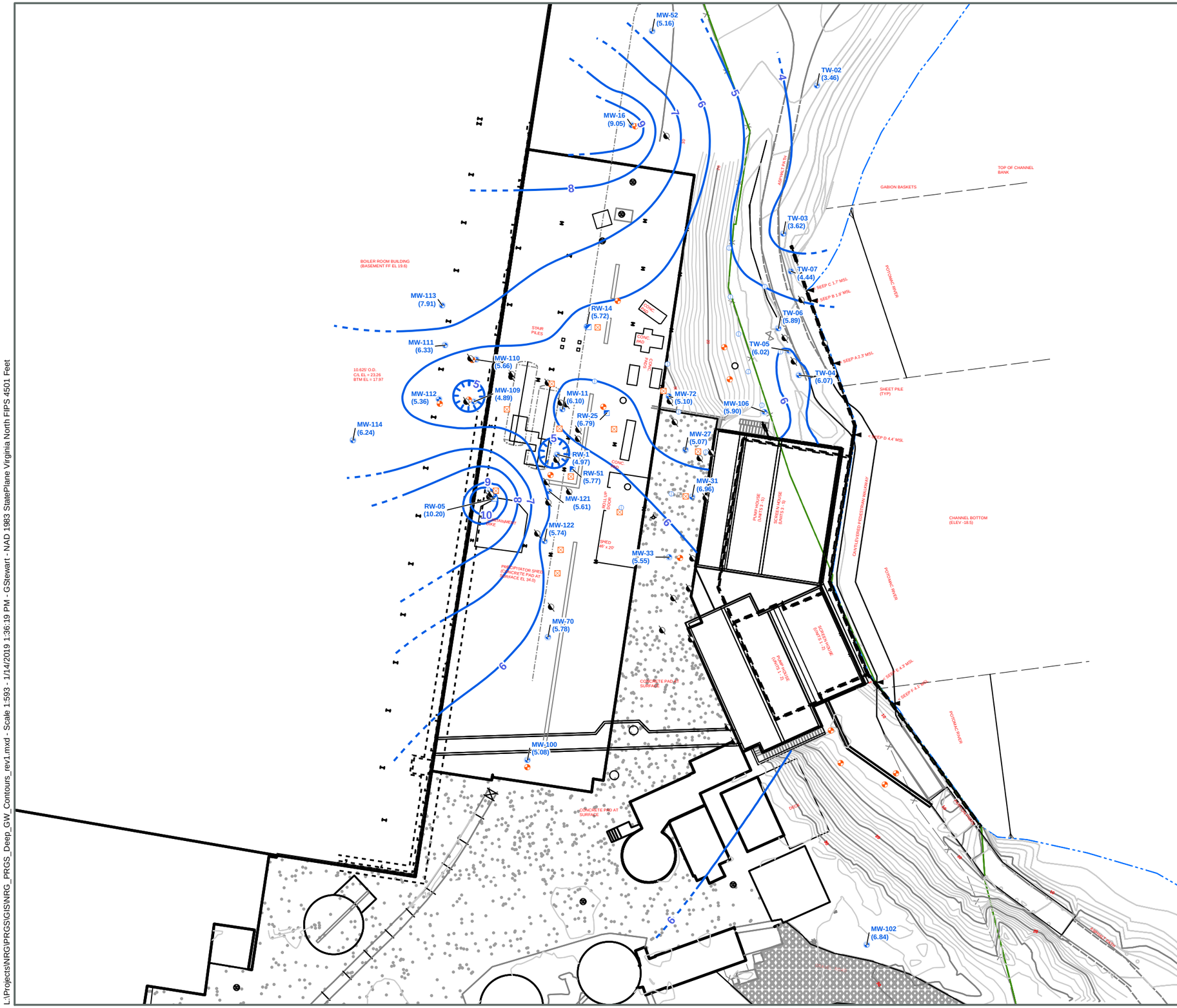

Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- DEPRESSION
- POTOMAC RIVER
- PROPERTY BOUNDARY
- (6.02) GROUNDWATER ELEVATION (FT)
- NG NOT GAUGED

Potentiometric Surface
Deep Zone Aquifer - November 12, 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn **GKS**	Date **1-14-19**
Designed **DMC**	Figure **5**
Approved **AAB**	

Scale In Feet (Approximate)
0 50

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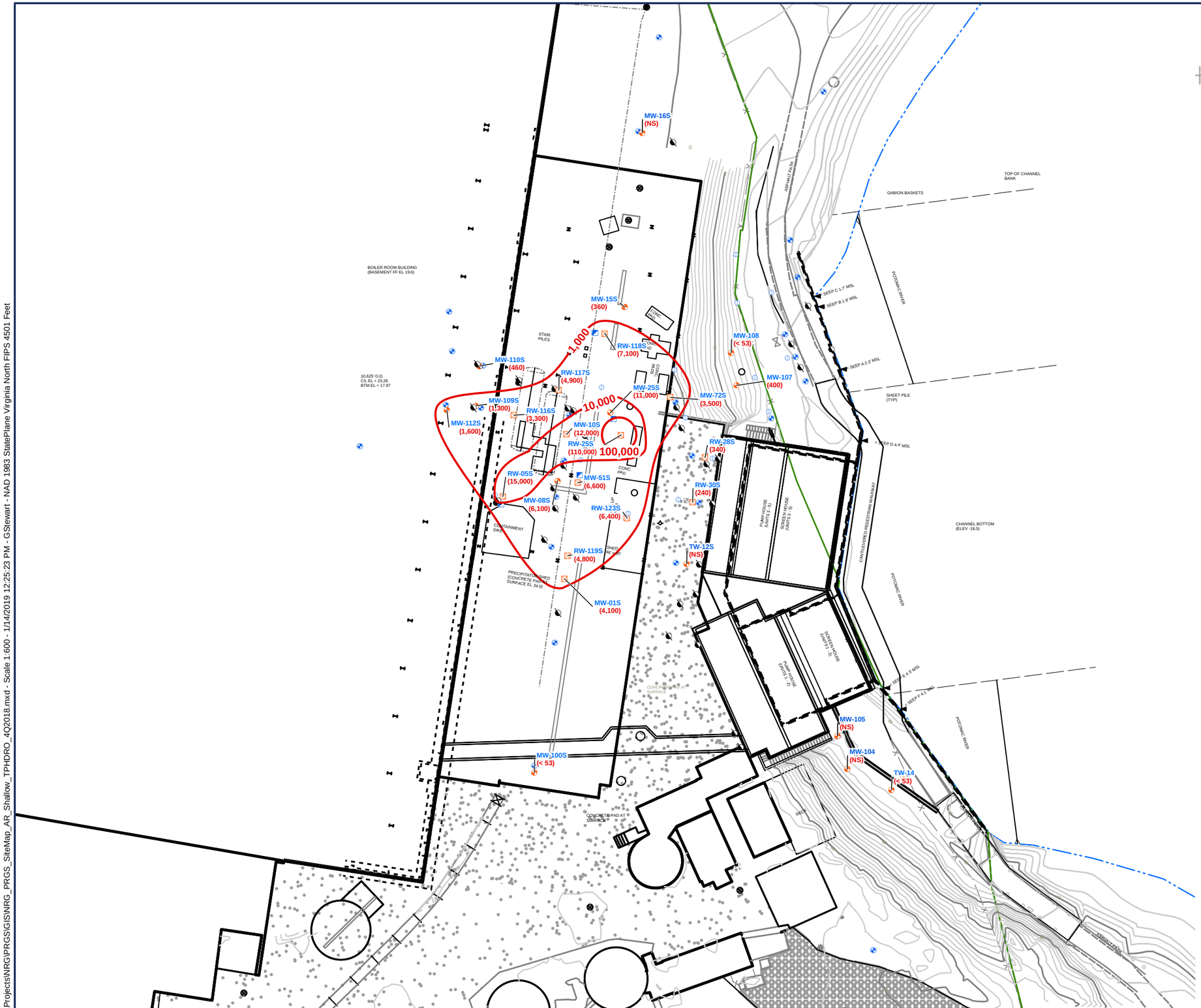
L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_GW_Contours_rev1.mxd - Scale 1:593 - 1/14/2019 1:36:19 PM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet



Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- TPH-DRO CONCENTRATION CONTOUR (µg/L)
- (1,000) TPH-DRO CONCENTRATION (µg/L)

Note:
1) TPH-DRO: Total Petroleum Hydrocarbons - Diesel Range Organics

2) µg/L: Micrograms per liter

3) < : Analyte detected below the method detection limit

TPH-DRO Concentration Contours Shallow Zone Aquifer - Fourth Quarter 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn GKS	Date 1-14-19
Designed DMC	Figure 6
Approved AAB	

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

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Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- TPH-DRO CONCENTRATION CONTOUR (µg/L)
- (1,500) TPH-DRO CONCENTRATION (µg/L)

Note:

1) TPH-DRO: Total Petroleum Hydrocarbons - Diesel Range Organics
2) µg/L: Micrograms per liter
3) <: Analyte detected below the method detection limit

TPH-DRO Concentration Contours Deep Zone Aquifer - Fourth Quarter 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn: GKS	Date: 1-14-19
Designed: DMC	Figure: 7
Approved: AAB	

Scale In Feet (Approximate)
0 50

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Note:
1) BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes

2) µg/L: Micrograms per liter

3) < : Analyte detected below the reporting detection limit

4) J: Result is an estimate

BTEX and Naphthalene Concentrations
Fourth Quarter 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn	Date
GKS	1-11-19
Designed	Figure
DMC	8
Approved	
AAB	

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_SiteMap_BTEX_Naph_4Q2018.mxd - Scale 1:600 - 1/11/2019 8:30:07 AM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet

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
- APPROXIMATE SOIL BORING LOCATION

pH OBSERVATIONS (S.U.)

- > 7.0
- 6.0 - 7.0
- 5.0 - 6.0
- 4.0 - 5.0
- < 4.0

(6.48) pH OBSERVATION (S.U.)

(NM) NOT MEASURED

Note:
S.U.: Standard Units

pH Levels Shallow Zone Aquifer Fourth Quarter 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn: GKS
Designed: DMC
Approved: AAB
Date: 1-15-19
Figure: 9

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

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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
- APPROXIMATE SOIL BORING LOCATION

pH OBSERVATIONS (S.U.)

- > 7.0
- 6.0 - 7.0
- 5.0 - 6.0
- 4.0 - 5.0
- < 4.0
- (5.85) pH OBSERVATION (S.U.)
- (NM) NOT MEASURED

Note:
S.U.: Standard Units

pH Levels Deep Zone Aquifer
Fourth Quarter 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn: GKS	Date: 1-15-19
Designed: DMC	Figure: 10
Approved: AAB	

Scale In Feet (Approximate)
0 50

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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 TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION

SULFATE CONCENTRATION (mg/L)

- > 10,000
- 1,000 - 10,000
- 100 - 1,000
- 10 - 100
- < 10

(1,250) SULFATE CONCENTRATION (mg/L)
(NS) NOT SAMPLED

Note:
mg/L: Milligrams per liter

Sulfate Concentrations Shallow Zone Aquifer - Fourth Quarter 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn	Date
GKS	1-14-19
Designed	Figure
DMC	11
Approved	
-	

N

Scale In Feet (Approximate)
0 50

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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 TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION

SULFATE CONCENTRATION (mg/L)

- > 10,000
- 1,000 - 10,000
- 100 - 1,000
- 10 - 100
- < 10

(1,130) SULFATE CONCENTRATION (mg/L)

(NS) NOT SAMPLED

Note:
mg/L: Milligrams per liter

Sulfate Concentrations Deep Zone Aquifer - Fourth Quarter 2018

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn	Date
GKS	1-14-19
Designed	Figure
DMC	12
Approved	
-	

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

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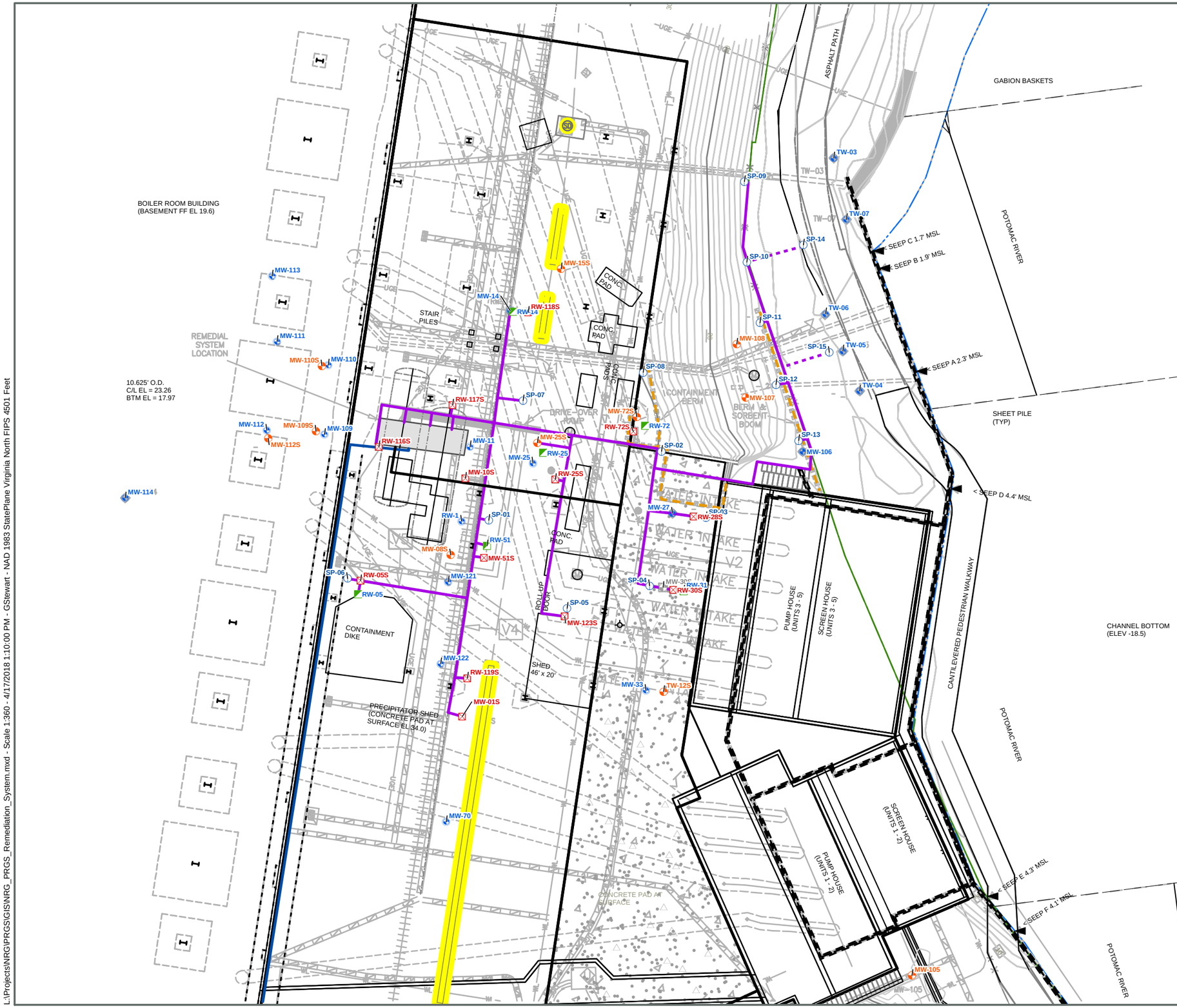

Legend

- 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
- CONTAINMENT BERM
- REMEDIATION PIPING (ABOVE GROUND)
- REMEDIATION PIPING (BELOW GROUND)
- AIR DISCHARGE LINE
- WATER DISCHARGE LINE
- POTOMAC RIVER
- PROPERTY BOUNDARY
- SURFACE DRAIN INLETS

Remediation System Layout Map

Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn: GKS	Date: 4-17-18
Designed: DMC	Figure: 13
Approved: AAB	

N W E S

Scale In Feet (Approximate)
0 30

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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 / RW-14	P&T	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	MW	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 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} & Nitrite NO^{-2}(EPA 353.2)**	**Manganese (6010)**	**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	X	X	X	X	X	X	X	P&S	
MW-05 / RW-05	Deep	X	X	X	X	X	X	X	X	X	X	X						P&S	
MW-08S	Shallow									X	X							P&S	
RW-10S	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	P&S	
MW-11	Deep									X								P&S	
MW-14 / RW-14	Deep	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	P&S	
MW-15S	Shallow									X								P&S	
MW-16S	Shallow																	P&S	
MW-16	Deep	X								X	X							P&S	
MW-25S	Shallow	X								X	X	X						P&S	
MW-25 / RW-25	Deep	X	X	X	X	X	X	X	X	X	X	X						P&S	
MW-27	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	P&S	
MW-31 / RW-31	Deep									X								P&S	
MW-33	Deep									X								P&S	
MW-51S	Shallow	X	X	X	X	X	X	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	X	X						P&S	
MW-52	Deep																	P&S	
MW-70	Deep																	P&S	
MW-72S	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	P&S	
MW-72 / RW-72	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	P&S	
MW-100S	Shallow	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	P&S	
MW-100	Deep	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	P&S	
MW-102	Deep																	P&S	
MW-103	Shallow																	P&S	
MW-104	Shallow																	P&S	
MW-105	Shallow																	P&S	

Table 2

GROUNDWATER 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} & Nitrite NO^{-2}(EPA 353.2)**	**Manganese (6010)**	**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-106	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	P&S	
MW-107	Deep									X								P&S	
MW-108	Deep									X								P&S	
MW-109S	Shallow									X								P&S	
MW-109	Deep									X								P&S	
MW-110S	Shallow									X								P&S	
MW-110	Deep									X								P&S	
MW-111	Deep									X								P&S	basement wells
MW-112S	Shallow									X								P&S	
MW-112	Deep									X								P&S	
MW-113	Deep									X								P&S	
MW-114	Deep									X								P&S	
MW-121	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	P&S	
MW-122	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	P&S	
RW-123S	Shallow	X	X	X	X	X	X	X	X	X		X				X		P&S	
TW-02	Deep																	P&S	
TW-03	Deep	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	P&S	
TW-04	Deep									X								P&S	
TW-05	Deep	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	P&S	
TW-06	Deep	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	P&S	
TW-07	Deep	X	X	X	X	X	X	X	X	X		X				X		P&S	
TW-12S	Shallow									X								P&S	
TW-14	Shallow									X	X							P&S	

Table 2

GROUNDWATER 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} & Nitrite NO^{-2}(EPA 353.2)**	**Manganese (6010)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
RW-1	Deep	X	X	X	X	X	X	X	X	X		X				X		P&S	
RW-05S	Shallow	X	X	X	X	X	X	X	X	X		X				X		P&S	
RW-25S	Shallow	X	X	X	X	X	X	X	X	X	X	X				X		P&S	
RW-28S	Shallow	X	X	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		X				X		P&S	
RW-117S	Shallow	X	X	X	X	X	X	X	X	X		X						P&S	
RW-118S	Shallow									X		X				X		P&S	
RW-119S	Shallow									X		X				X		P&S	

Notes:
P&S = Purge and Sample
CO2 = Carbon dioxide
VOC = Volatile organic compound
TPH-DRO = Total petroleum hydrocarbons - diesel range organics

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-01S	08/08/2014	30.78	22.67	-	-	-	26.58	8.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/11/2014	30.78	22.62	-	-	-	-	8.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/15/2014	30.78	22.60	-	-	-	-	8.18	-	-	-	-	-	-	-	-	-	-	-	-	2,670	
MW-01S	08/18/2014	30.78	22.88	-	-	-	-	7.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/25/2014	30.87	22.27	-	-	-	-	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/02/2014	30.87	22.28	-	-	-	-	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/15/2014	30.87	22.61	-	-	-	-	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/22/2014	30.87	22.75	-	-	-	-	8.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/24/2014	30.87	22.95	-	-	-	-	7.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	10/01/2014	30.87	22.94	-	-	-	26.59	7.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	10/10/2014	30.87	23.06	-	-	-	-	7.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	10/20/2014	30.87	23.53	-	-	-	26.58	7.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	10/22/2014	30.87	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23,000	
MW-01S	02/24/2015	30.87	25.89	25.74	0.15	-	26.65	5.11	15:24	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	02/26/2015	30.87	25.61	25.51	0.10	-	-	5.35	16:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	03/04/2015	30.87	25.63	25.52	0.11	-	-	5.34	14:21	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	03/11/2015	30.87	25.51	25.39	0.12	-	-	5.47	13:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	03/18/2015	30.87	25.14	25.03	0.11	-	-	5.83	11:19	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	03/26/2015	30.87	25.07	24.98	0.09	-	26.60	5.88	10:35	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	04/02/2015	30.87	25.06	24.96	0.10	-	26.60	5.90	11:33	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	04/08/2015	30.87	25.10	24.96	0.14	-	26.64	5.89	9:27	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	04/13/2015	30.87	24.92	24.83	0.09	-	-	6.03	10:35	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	04/23/2015	30.87	24.38	24.35	0.03	-	26.55	6.52	12:04	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	04/29/2015	30.87	24.38	24.34	0.04	-	26.60	6.53	14:29	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	05/04/2015	30.87	24.32	24.28	0.04	-	-	6.59	11:55	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	05/11/2015	30.87	24.37	24.31	0.06	-	-	6.55	10:55	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	05/21/2015	30.87	24.46	24.41	0.05	-	-	6.45	12:15	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	05/28/2015	30.87	24.65	24.54	0.11	-	26.55	6.32	11:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	06/02/2015	30.87	24.52	24.46	0.06	-	-	6.40	13:16	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	06/09/2015	30.87	24.12	24.10	0.02	-	-	6.77	10:43	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	06/16/2015	30.87	24.05	24.04	0.01	-	-	6.83	11:37	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	06/26/2015	30.87	23.72	-	-	-	26.50	7.15	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/01/2015	30.87	23.25	23.24	0.01	-	-	7.63	12:34	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	07/08/2015	30.87	22.93	22.93	TRACE	TRACE	-	7.94	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/13/2015	30.87	22.72	-	-	-	-	8.15	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/20/2015	30.87	22.40	-	-	-	-	8.47	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/28/2015	30.87	22.43	-	-	-	26.69	8.44	10:56	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-01S	08/04/2015	30.87	22.46	22.45	0.01	TRACE	26.56	8.42	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/11/2015	30.87	22.50	22.50	TRACE	TRACE	26.61	8.37	10:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/18/2015	30.87	22.63	-	-	-	-	8.24	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/24/2015	30.87	22.69	-	-	-	-	8.18	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/02/2015	30.87	22.90	22.88	0.02	TRACE	26.62	7.99	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/09/2015	30.87	22.96	22.95	0.01	-	26.60	7.92	11:17	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	09/17/2015	30.87	23.19	23.18	0.01	-	26.62	7.69	10:58	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	09/23/2015	30.87	23.07	23.06	0.01	TRACE	-	7.81	11:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/28/2015	30.87	23.10	23.10	TRACE	-	26.10	7.77	10:08	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	10/05/2015	30.87	23.09	23.09	TRACE	-	26.60	7.78	11:07	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	11/10/2015	30.87	23.59	-	-	-	-	7.28	13:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/01/2015	30.87	24.05	24.04	0.01	-	26.57	6.83	12:02	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	01/27/2016	30.87	23.98	23.98	TRACE	-	-	6.89	9:54	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	02/15/2016	30.87	23.54	-	-	-	-	7.33	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/14/2016	30.87	23.27	-	-	-	26.60	7.60	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/16/2016	30.87	23.16	-	-	-	26.60	7.71	12:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/21/2016	30.87	23.48	-	-	-	26.59	7.39	11:05	-	-	-	-	-	-	-	-	-	-	-	56,000	
MW-01S	05/23/2016	30.87	23.69	23.68	0.01	-	-	7.19	12:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-01S	06/21/2016	30.87	22.93	-	-	-	-	7.94	11:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/21/2016	30.87	22.57	-	-	-	-	8.30	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/24/2016	30.87	22.96	-	-	-	26.67	7.91	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/25/2016	30.87	23.08	-	-	-	26.75	7.79	10:55	-	-	-	-	-	-	-	-	-	-	-	140,000	
MW-01S	11/28/2016	30.87	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/29/2016	30.87	25.61	25.48	0.13	0.02	26.58	5.37	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/22/2016	30.87	25.78	25.78	TRACE	TRACE	-	5.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/30/2017	30.87	23.57	-	-	-	-	7.30	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/21/2017	30.87	23.07	-	-	-	26.50	7.80	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/22/2017	30.87	23.27	-	-	-	-	7.60	9:43	-	-	-	-	-	-	-	-	-	-	-	720,000	Strong odor, oily bailer
MW-01S	03/28/2017	30.87	24.23	-	-	-	26.65	6.64	15:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/29/2017	32.69	26.13	-	-	-	27.90	6.56	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/18/2017	32.69	27.50	-	-	-	27.89	5.19	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/22/2017	32.69	24.07	-	-	-	24.87	8.62	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/24/2017	32.69	22.22	-	-	-	27.90	10.47	9:03	-	-	-	-	-	-	-	-	-	-	-	72,600	
MW-01S	06/22/2017	32.69	27.90	-	-	-	27.90	4.79	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/19/2017	32.69	27.62	-	-	-	27.87	5.07	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/21/2017	32.69	22.73	-	-	-	27.90	9.96	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/28/2017	32.69	23.12	-	-	-	27.87	9.57	10:43	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-01S	08/29/2017	32.69	23.17	-	-	-	-	9.52	10:20	-	-	-	-	-	-	-	-	<2.0	-	422	6,780	
MW-01S	09/05/2017	32.69	23.18	-	-	-	-	9.51	13:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/20/2017	32.69	23.70	-	-	-	-	8.99	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	10/03/2017	32.69	24.07	-	-	-	-	8.62	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	10/17/2017	32.69	24.06	-	-	-	-	8.63	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/02/2017	32.69	23.96	-	-	-	-	8.73	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/28/2017	32.69	23.99	-	-	-	27.90	8.70	13:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	11/29/2017	32.69	24.13	-	-	-	-	8.56	9:39	<0.5	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	3,760	3,760	
MW-01S	12/05/2017	32.69	24.07	-	-	-	-	8.62	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/19/2017	32.69	24.23	-	-	-	-	8.46	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/03/2018	32.69	24.88	-	-	-	-	7.81	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/26/2018	32.69	26.97	-	-	-	-	5.72	11:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/01/2018	32.69	25.48	-	-	-	-	7.21	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/20/2018	32.69	23.55	-	-	-	27.85	9.14	12:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/22/2018	32.69	23.66	-	-	-	-	9.03	9:47	-	-	-	-	-	-	-	-	-	-	248	6,230	
MW-01S	03/06/2018	32.69	23.58	-	-	-	-	9.11	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/29/2018	32.69	23.58	-	-	-	-	9.11	10:07	-	-	-	-	-	-	-	-	-		-	-	
MW-01S	04/11/2018	32.69	23.84	-	-	-	-	8.85	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/23/2018	32.69	23.67	-	-	-	-	9.02	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/03/2018	32.69	23.71	-	-	-	-	8.98	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/03/2018	31.04	22.50	-	-	-	-	8.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/21/2018	31.04	22.26	-	-	-	26.67	8.78	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/24/2018	31.04	22.21	-	-	-	26.64	8.83	8:00	-	-	-	-	-	-	-	-	-	-	-	109,000	
MW-01S	06/12/2018	31.04	21.86	-	-	-	-	9.18	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	06/26/2018	31.04	21.71	-	-	-	26.49	9.33	9:29	-	-	-	-	-	-	-	-	-	-	69,200 B	96,300	
MW-01S	07/02/2018	31.04	21.71	-	-	-	-	9.33	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/17/2018	31.04	21.80	-	-	-	-	9.24	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/30/2018	31.04	20.31	-	-	-	-	10.73	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/09/2018	31.04	20.90	-	-	-	-	10.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/13/2018	31.04	20.95	-	-	-	26.63	10.09	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/14/2018	31.04	20.93	-	-	-	26.63	10.11	12:53	-	-	-	-	-	-	-	-	-	-	-	92,000	
MW-01S	09/04/2018	31.04	20.11	-	-	-	-	10.93	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/21/2018	31.04	20.06	-	-	-	26.54	10.98	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/25/2018	31.04	21.58	-	-	-	-	9.46	13:38	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-01S	10/02/2018	31.04	22.24	-	-	-	28.42	8.80	9:35	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-01S	10/25/2018	31.04	27.54	-	-	-	27.58	3.50	9:44	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-01S	11/12/2018	32.40	25.14	-	-	-	35.15	7.26	10:40	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-01S	11/13/2018	32.40	21.48	-	-	-	-	10.92	12:00	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	4,100	
MW-01S	11/27/2018	32.40	20.94	-	-	-	-	11.46	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/11/2018	32.40	21.84	-	-	-	-	10.56	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	12/27/2018	32.40	21.77	-	-	-	-	10.63	9:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	01/10/2019	32.40	21.74	-	-	-	-	10.66	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/24/2014	30.86	26.59	-	-	-	-	4.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/31/2014	30.86	22.08	-	-	-	24.35	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/08/2014	30.86	21.33	-	-	-	24.64	9.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/11/2014	30.86	21.42	-	-	-	-	9.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/15/2014	30.86	21.41	-	-	-	-	9.45	-	-	-	-	-	-	-	-	-	-	-	-	7,540	
MW-08S	08/18/2014	30.86	21.46	-	-	-	-	9.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/25/2014	30.86	21.49	-	-	-	-	9.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/02/2014	30.86	21.45	-	-	-	-	9.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/15/2014	30.86	21.58	-	-	-	-	9.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/22/2014	30.86	21.67	-	-	-	-	9.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/24/2014	30.86	21.68	-	-	-	-	9.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	10/01/2014	30.86	21.67	-	-	-	24.66	9.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	10/10/2014	30.86	21.71	-	-	-	-	9.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	10/13/2014	30.86	21.72	-	-	-	-	9.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	10/20/2014	30.86	21.80	-	-	-	24.65	9.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	10/22/2014	30.86	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52,000	
MW-08S	10/27/2014	30.86	21.88	-	-	-	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/07/2014	30.86	21.84	-	-	-	-	9.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/12/2014	30.86	21.94	-	-	-	-	8.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/21/2014	30.86	21.99	-	-	-	-	8.87	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/26/2014	30.86	22.01	-	-	-	-	8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	12/05/2014	30.86	22.03	-	-	-	-	8.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	12/11/2014	30.86	22.03	-	-	-	-	8.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	12/16/2014	30.86	22.04	-	-	-	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	12/23/2014	30.86	22.07	-	-	-	-	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	12/30/2014	30.86	22.10	-	-	-	-	8.76	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	01/09/2015	30.86	22.12	-	-	-	-	8.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	01/16/2015	30.86	22.05	-	-	-	-	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	01/19/2015	30.86	22.01	-	-	-	-	8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	01/26/2015	30.86	22.08	-	-	-	-	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	02/03/2015	30.86	22.15	-	-	-	24.72	8.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	02/09/2015	30.86	22.14	-	-	-	-	8.72	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-08S	02/18/2015	30.86	22.15	-	-	-	-	8.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	02/24/2015	30.86	22.15	-	-	-	24.64	8.71	15:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	02/26/2015	30.86	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,000	
MW-08S	03/04/2015	30.86	21.34	-	-	-	-	9.52	14:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	03/11/2015	30.86	21.80	-	-	-	-	9.06	12:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	03/18/2015	30.86	21.88	-	-	-	-	8.98	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	03/26/2015	30.86	22.05	-	-	-	24.70	8.81	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	04/02/2015	30.86	22.03	-	-	-	24.60	8.83	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	04/08/2015	30.86	22.07	-	-	-	24.68	8.79	8:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	04/13/2015	30.86	22.08	-	-	-	-	8.78	10:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	04/23/2015	30.86	22.08	-	-	-	24.65	8.78	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	04/29/2015	30.86	22.09	-	-	-	24.60	8.77	14:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	05/04/2015	30.86	22.09	-	-	-	-	8.77	11:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	05/11/2015	30.86	22.10	-	-	-	24.70	8.76	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	05/12/2015	30.86	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27,000	
MW-08S	05/21/2015	30.86	22.05	-	-	-	24.65	8.81	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	05/28/2015	30.86	22.11	-	-	-	24.60	8.75	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	06/02/2015	30.86	22.06	-	-	-	-	8.80	13:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	06/09/2015	30.86	22.05	-	-	-	-	8.81	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	06/16/2015	30.86	22.05	-	-	-	-	8.81	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	06/26/2015	30.86	21.98	-	-	-	24.50	8.88	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/01/2015	30.86	22.02	-	-	-	-	8.84	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/08/2015	30.86	22.01	-	-	-	-	8.85	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/13/2015	30.86	21.95	-	-	-	-	8.91	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/20/2015	30.86	21.75	-	-	-	-	9.11	9:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/28/2015	30.86	21.08	-	-	-	24.75	9.78	11:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/04/2015	30.86	21.05	-	-	-	24.30	9.81	9:39	-	-	-	-	-	-	-	-	-	-	-	14,000	
MW-08S	08/11/2015	30.86	21.15	-	-	-	24.69	9.71	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/18/2015	30.86	21.24	-	-	-	-	9.62	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/24/2015	30.86	21.32	-	-	-	-	9.54	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/02/2015	30.86	21.32	-	-	-	24.66	9.54	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/09/2015	30.86	21.50	-	-	-	24.71	9.36	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/17/2015	30.86	21.61	-	-	-	24.74	9.25	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/23/2015	30.86	21.63	-	-	-	-	9.23	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	09/28/2015	30.86	21.68	-	-	-	24.69	9.18	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	10/05/2015	30.86	21.75	-	-	-	24.70	9.11	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/10/2015	30.86	21.95	-	-	-	-	8.91	13:13	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-08S	12/01/2015	30.86	22.00	-	-	-	24.66	8.86	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	12/02/2015	30.86	NR	-	-	-	-	-	-	61	<0.5	5.00	48	-	-	-	-	30	-	-	15,000	
MW-08S	01/27/2016	30.86	21.98	-	-	-	-	8.88	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	02/15/2016	30.86	21.83	-	-	-	-	9.03	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	03/14/2016	30.86	21.72	-	-	-	25.62	9.14	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	03/16/2016	30.86	21.72	-	-	-	24.65	9.14	12:42	-	-	-	-	-	-	-	-	-	-	-	20,000	
MW-08S	04/21/2016	30.86	22.21	-	-	-	24.65	8.65	12:11	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW-08S	05/23/2016	30.86	25.03	-	-	-	25.48	5.83	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	05/24/2016	30.86	22.05	-	-	-	24.68	8.81	10:11	-	-	-	-	-	-	-	-	-	-	-	8,500	
MW-08S	06/21/2016	30.86	22.18	-	-	-	-	8.68	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/21/2016	30.86	21.20	-	-	-	-	9.66	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/24/2016	30.86	21.77	-	-	-	24.65	9.09	11:22	-	-	-	-	-	-	-	-	-	-	-	7,400	
MW-08S	11/28/2016	30.86	22.07	-	-	-	24.82	8.79	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/29/2016	30.86	22.07	-	-	-	24.75	8.79	9:36	6	<0.5	<0.5	0.7 J	-	-	-	-	2 J	-	-	12,000	
MW-08S	02/21/2017	30.86	22.43	-	-	-	24.70	8.43	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	02/22/2017	30.86	22.44	-	-	-	-	8.42	9:54	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW-08S	05/22/2017	30.86	21.92	-	-	-	24.70	8.94	10:57	-	-	-	-	-	-	-	-	-	-	-	15,300	
MW-08S	08/28/2017	30.86	22.15	-	-	-	24.45	8.71	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	08/29/2017	30.86	21.40	-	-	-	24.70	9.46	10:53	-	-	-	-	-	-	-	-	<0.66	-	1,650	48,000	
MW-08S	11/28/2017	30.86	22.02	-	-	-	24.68	8.84	13:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/29/2017	30.86	22.07	-	-	-	24.73	8.79	11:02	2.4	<1.0	<1.0	<1.0	-	-	-	-	1.9 J	-	20,300	38,600	
MW-08S	02/20/2018	30.86	21.92	-	-	-	24.70	8.94	12:30	-	-	-	-	-	-	-	-	-	-	1,890	41,800	
MW-08S	05/21/2018	30.86	21.94	-	-	-	24.73	8.92	13:20	-	-	-	-	-	-	-	-	-	-	-	19,700	
MW-08S	08/13/2018	30.86	23.62	-	-	-	26.83	7.24	9:34	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW-08S	11/12/2018	30.86	20.91	-	-	-	24.70	9.95	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	11/13/2018	30.86	20.83	-	-	-	24.70	10.03	9:46	1 J	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	6,100	
MW/RW-10S	08/08/2014	31.24	22.40	-	-	-	26.51	8.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/11/2014	31.24	22.41	-	-	-	-	8.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/15/2014	31.24	22.02	-	-	-	-	9.22	-	-	-	-	-	-	-	-	-	-	-	-	36,000	
MW/RW-10S	08/18/2014	31.24	22.03	-	-	-	-	9.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/25/2014	31.24	22.06	-	-	-	-	9.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/02/2014	31.24	22.11	-	-	-	-	9.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/15/2014	31.24	22.15	-	-	-	-	9.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/22/2014	31.24	22.18	-	-	-	-	9.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/24/2014	31.24	22.19	-	-	-	-	9.05	-	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-10S	10/01/2014	31.24	22.22	-	-	-	26.09	9.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/10/2014	31.24	22.18	22.18	TRACE	-	-	9.06	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-10S	10/13/2014	31.24	22.21	-	-	-	-	9.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/20/2014	31.24	22.35	-	-	-	26.10	8.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/22/2014			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100,000	
MW/RW-10S	10/27/2014	31.24	22.32	-	-	-	-	8.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/07/2014	31.24	22.30	-	-	-	-	8.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/12/2014	31.24	22.32	-	-	-	-	8.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/21/2014	31.24	22.38	-	-	-	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/26/2014	31.24	22.35	-	-	-	-	8.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/05/2014	31.24	22.40	22.38	0.02	TRACE	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/11/2014	31.24	22.33	22.33	TRACE	-	-	8.91	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	12/16/2014	31.24	22.36	22.36	TRACE	-	-	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	12/23/2014	31.24	22.37	-	-	-	-	8.87	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/30/2014	31.24	22.42	22.42	TRACE	-	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	01/09/2015	31.24	22.44	22.43	0.01	TRACE	-	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/16/2015	31.24	22.41	22.40	0.01	TRACE	-	8.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/19/2015	31.24	22.43	22.42	0.01	TRACE	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/26/2015	31.24	22.23	22.22	0.01	TRACE	-	9.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/03/2015	31.24	22.50	-	-	-	26.11	8.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/09/2015	31.24	22.43	22.42	0.01	-	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	02/18/2015	31.24	22.44	22.43	0.01	-	-	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	02/24/2015	31.24	22.50	22.49	0.01	-	26.11	8.75	15:44	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/04/2015	31.24	22.50	22.48	0.02	-	-	8.76	14:28	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/11/2015	31.24	22.51	22.48	0.03	-	-	8.76	12:54	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/18/2015	31.24	22.56	22.52	0.04	-	-	8.72	11:23	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/26/2015	31.24	22.53	22.50	0.03	-	26.10	8.74	11:27	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/02/2015	31.24	22.55	22.51	0.04	-	26.05	8.73	11:52	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/08/2015	31.24	22.53	22.52	0.01	-	26.10	8.72	9:05	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/13/2015	31.24	22.56	22.53	0.03	-	-	8.71	10:59	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/23/2015	31.24	22.53	22.51	0.02	-	26.05	8.73	12:22	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	04/29/2015	31.24	23.53	23.50	0.03	-	26.00	7.74	14:43	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/04/2015	31.24	22.57	22.54	0.03	-	-	8.70	11:59	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/11/2015	31.24	22.86	22.84	0.02	-	26.10	8.40	10:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/21/2015	31.24	22.59	22.56	0.03	-	-	8.68	12:46	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/28/2015	31.24	22.60	22.56	0.04	-	26.00	8.68	12:01	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	06/02/2015	31.24	22.60	22.56	0.04	-	-	8.68	13:20	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	06/09/2015	31.24	22.54	22.53	0.01	-	-	8.71	10:40	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	06/19/2015	31.24	22.54	22.53	0.01	-	-	8.71	11:34	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-10S	06/26/2015	31.24	22.61	22.54	0.07	-	26.00	8.69	11:26	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	07/01/2015	31.24	22.58	22.52	0.06	-	-	8.71	12:26	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	07/08/2015	31.24	22.54	22.49	0.05	TRACE	-	8.74	11:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/13/2015	31.24	21.96	-	-	-	-	9.28	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/20/2015	31.24	21.48	-	-	-	-	9.76	9:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/28/2015	31.24	21.36	-	-	-	26.11	9.88	10:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/05/2015	31.24	21.51	21.42	0.09	-	-	9.81	9:24	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	08/11/2015	31.24	21.49	21.49	TRACE	TRACE	26.15	9.75	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/18/2015	31.24	21.76	21.59	0.17	0.02	-	9.63	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/24/2015	31.24	21.80	21.68	0.12	0.01	-	9.55	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/02/2015	31.24	21.95	21.81	0.14	0.01	26.10	9.41	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/09/2015	31.24	22.05	21.91	0.14	0.02	26.11	9.31	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/17/2015	31.24	22.10	22.00	0.10	TRACE	-	9.23	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/23/2015	31.24	22.06	22.02	0.04	TRACE	-	9.22	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/28/2015	31.24	22.14	22.07	0.07	TRACE	26.10	9.16	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/05/2015	31.24	22.12	-	-	-	26.10	9.12	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/10/2015	31.24	24.00	24.00	TRACE	-	-	7.24	13:25	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	12/01/2015	33.02	24.10	-	-	-	27.85	8.92	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/27/2016	33.02	24.18	24.18	TRACE	-	-	8.84	10:52	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	02/15/2016	33.02	24.37	24.36	0.01	-	-	8.66	10:35	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	03/14/2016	33.02	24.07	-	-	-	27.87	8.95	12:50	-	-	-	-	-	-	-	-	-	-	-	29,000	
MW/RW-10S	04/21/2016	33.02	25.99	25.95	0.04	-	-	7.07	11:27	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-10S	05/23/2016	33.02	25.55	-	-	-	27.90	7.47	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/24/2016	33.02	25.57	-	-	-	27.89	7.45	10:00	-	-	-	-	-	-	-	-	-	-	-	270,000	
MW/RW-10S	06/21/2016	33.02	25.62	-	-	-	-	7.40	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/21/2016	33.02	25.57	-	-	-	-	7.45	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/24/2016	33.02	25.61	-	-	-	27.80	7.41	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/25/2016	33.02	24.97	-	-	-	-	8.05	11:55	-	-	-	-	-	-	-	-	-	-	-	25,000	
MW/RW-10S	09/22/2016	33.02	25.68	-	-	-	27.89	7.34	12:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/20/2016	33.02	25.68	-	-	-	-	7.34	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/28/2016	33.02	25.68	-	-	-	-	7.34	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/29/2016	33.02	25.71	-	-	-	27.95	7.31	-	<3	<3	<3	<3	-	-	-	-	<5	-	-	240,000	
MW/RW-10S	12/22/2016	33.02	25.66	-	-	-	27.72	7.36	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/30/2017	33.02	25.61	-	-	-	27.97	7.41	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/21/2017	33.02	25.55	-	-	-	26.94	7.47	10:09	-	-	-	-	-	-	-	-	-	-	-	1,200,000	
MW/RW-10S	03/29/2017	32.11	25.55	-	-	-	26.97	6.56	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/18/2017	32.11	25.77	-	-	-	27.10	6.34	11:10	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-10S	05/22/2017	32.11	25.81	-	-	-	27.00	6.30	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/23/2017	32.11	24.84	-	-	-	27.00	7.27	12:15	-	-	-	-	-	-	-	-	-	-	-	474,000	
MW/RW-10S	06/22/2017	32.11	26.02	-	-	-	27.05	6.09	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/21/2017	32.11	22.82	-	-	-	26.86	9.29	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/28/2017	32.11	22.85	-	-	-	27.00	9.26	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/29/2017	32.11	22.88	-	-	-	-	9.23	12:45	-	-	-	-	-	-	-	-	<2.0	-	2,400	54,300	
MW/RW-10S	09/05/2017	32.11	22.87	-	-	-	-	9.24	14:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/20/2017	32.11	22.95	-	-	-	-	9.16	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/03/2017	32.11	23.05	-	-	-	-	9.06	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	10/17/2017	32.11	23.10	-	-	-	-	9.01	11:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/02/2017	32.11	23.20	-	-	-	-	8.91	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/28/2017	32.11	23.19	-	-	-	26.98	8.92	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/30/2017	32.11	23.12	-	-	-	26.38	8.99	9:21	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	48,400	48,900	
MW/RW-10S	12/05/2017	32.11	23.20	-	-	-	-	8.91	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/19/2017	32.11	23.24	-	-	-	-	8.87	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/03/2018	32.11	23.25	-	-	-	-	8.86	12:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/26/2018	32.11	23.33	-	-	-	-	8.78	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/01/2018	32.11	23.27	-	-	-	-	8.84	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/20/2018	32.11	DRY	-	-	-	-	-	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/21/2018	32.11	23.22	-	-	-	26.98	8.89	10:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/22/2018	32.11	23.25	-	-	-	27.96	8.86	12:32	-	-	-	-	-	-	-	-	-	-	9,350	62,100	
MW/RW-10S	03/06/2018	32.11	23.15	-	-	-	-	8.96	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	03/29/2018	32.11	23.15	-	-	-	-	8.96	9:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/11/2018	32.11	23.17	-	-	-	-	8.94	8:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/23/2018	32.11	23.13	-	-	-	-	8.98	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/03/2018	32.11	23.12	-	-	-	-	8.99	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/03/2018	31.24	22.25	-	-	-	-	8.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/21/2018	31.24	22.26	-	-	-	26.10	8.98	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/24/2018	31.24	22.21	-	-	-	26.15	9.03	8:12	-	-	-	-	-	-	-	-	-	-	-	520,000	
MW/RW-10S	06/12/2018	31.24	22.20	-	-	-	-	9.04	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	06/26/2018	31.24	22.05	-	-	-	26.10	9.19	9:49	-	-	-	-	-	-	-	-	-	-	28,100 B	103,000	
MW/RW-10S	07/02/2018	31.24	22.07	-	-	-	-	9.17	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/17/2018	31.24	22.06	-	-	-	-	9.18	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/30/2018	31.24	21.51	-	-	-	-	9.73	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/09/2018	31.24	21.44	-	-	-	-	9.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/13/2018	31.24	21.37	-	-	-	26.03	9.87	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/14/2018	31.24	21.33	-	-	-	27.95	9.91	10:35	-	-	-	-	-	-	-	-	-	-	-	77,000	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-10S	09/04/2018	31.24	21.22	-	-	-	-	10.02	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/21/2018	31.24	20.75	-	-	-	26.10	10.49	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/25/2018	31.24	25.01	-	-	-	-	-	13:31	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-10S	10/02/2018	31.24	22.26	-	-	-	27.57	-	10:10	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-10S	10/24/2018	31.24	26.75	-	-	-	27.22	-	9:53	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-10S	11/12/2018	32.82	23.02	-	-	-	-	9.80	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	11/13/2018	32.82	22.26	-	-	-	-	10.56	14:00	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	12,000	
MW/RW-10S	11/27/2018	32.82	22.32	-	-	-	-	10.50	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/11/2018	32.82	22.48	-	-	-	-	10.34	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	12/27/2018	32.82	22.37	-	-	-	-	10.45	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	01/10/2019	32.82	22.57	-	-	-	-	10.25	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/25/2014	30.85	26.90	-	-	-	33.40	3.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/08/2014	30.85	26.76	-	-	-	34.00	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/11/2014	30.85	26.57	-	-	-	-	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/15/2014	30.85	27.15	-	-	-	-	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/16/2014	30.85	26.81	-	-	-	34.00	4.04	-	-	-	-	-	-	-	-	-	-	-	-	423	
MW-11	08/18/2014	30.85	26.77	-	-	-	-	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/25/2014	30.85	26.43	-	-	-	-	4.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/02/2014	30.85	26.83	-	-	-	-	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/15/2014	30.85	26.75	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/22/2014	30.85	26.64	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/24/2014	30.85	27.08	-	-	-	-	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/01/2014	30.85	26.87	-	-	-	34.02	3.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/13/2014	30.85	26.86	-	-	-	-	3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/20/2014	30.85	26.96	-	-	-	33.99	3.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/22/2014	30.85	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	840	
MW-11	02/24/2015	30.85	27.03	-	-	-	-	3.82	13:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	02/26/2015	30.85	27.07	-	-	-	34.00	3.78	10:18	-	-	-	-	-	-	-	-	-	-	-	920	
MW-11	03/04/2015	30.85	26.95	-	-	-	-	3.90	14:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/11/2015	30.85	26.58	-	-	-	-	4.27	12:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/18/2015	30.85	26.74	-	-	-	-	4.11	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/26/2015	30.85	26.56	-	-	-	33.90	4.29	11:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/02/2015	30.85	26.69	-	-	-	33.90	4.16	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/08/2015	30.85	27.00	-	-	-	33.82	3.85	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/13/2015	30.85	26.88	-	-	-	-	3.97	10:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/23/2015	30.85	26.40	-	-	-	33.85	4.45	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/29/2015	30.85	26.56	-	-	-	33.80	4.29	14:09	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-11	05/04/2015	30.85	26.39	-	-	-	-	4.46	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/11/2015	30.85	26.35	-	-	-	33.80	4.50	15:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/12/2015	30.85	NR	-	-	-	-	-	-	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	-	-	900	
MW-11	05/21/2015	30.85	26.88	-	-	-	33.90	3.97	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/28/2015	30.85	26.83	-	-	-	33.80	4.02	11:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/02/2015	30.85	26.50	-	-	-	-	4.35	12:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/09/2015	30.85	26.23	-	-	-	-	4.62	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/16/2015	30.85	26.28	-	-	-	-	4.57	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/26/2015	30.85	26.22	-	-	-	33.80	4.63	10:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/01/2015	30.85	25.73	-	-	-	-	5.12	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/04/2015	30.85	25.94	-	-	-	33.86	4.91	12:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/05/2015	30.85	26.31	-	-	-	33.84	4.54	8:46	-	-	-	-	-	-	-	-	-	-	-	5,300	
MW-11	09/28/2015	30.85	25.92	25.90	0.02	-	33.92	4.95	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/05/2015	30.85	25.72	-	-	-	33.92	5.13	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/10/2015	30.85	26.35	-	-	-	-	4.50	13:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	12/01/2015	30.85	26.48	-	-	-	33.92	4.37	13:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	12/02/2015	30.85	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000	
MW-11	01/27/2016	30.85	26.68	-	-	-	-	4.17	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	02/15/2016	30.85	27.03	-	-	-	-	3.82	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/14/2016	30.85	26.63	-	-	-	34.06	4.22	8:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/21/2016	30.85	26.97	-	-	-	-	3.88	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/23/2016	30.85	27.68	-	-	-	32.83	3.17	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/21/2016	30.85	26.03	-	-	-	-	4.82	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/21/2016	30.85	25.75	-	-	-	-	5.10	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/24/2016	30.85	25.35	-	-	-	30.69	5.50	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/28/2016	30.85	26.25	-	-	-	-	4.60	8:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/29/2016	30.85	26.53	-	-	-	29.60	4.32	9:43	-	-	-	-	-	-	-	-	-	-	-	770	
MW-11	02/21/2017	30.85	26.25	-	-	-	29.40	4.60	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/22/2017	30.85	26.88	-	-	-	-	3.97	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/28/2017	30.85	DRY	-	-	-	29.21	-	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/05/2017	30.85	DRY	-	-	-	29.03	-	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/20/2017	30.85	DRY	-	-	-	29.03	-	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/03/2017	30.85	DRY	-	-	-	29.03	-	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/17/2017	30.85	DRY	-	-	-	29.03	-	11:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/02/2017	30.85	DRY	-	-	-	29.03	-	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/28/2017	30.85	DRY	-	-	-	29.03	-	11:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	12/05/2017	30.85	DRY	-	-	-	29.03	-	10:05	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-11	01/03/2018	30.85	DRY	-	-	-	29.03	-	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	01/26/2018	30.85	DRY	-	-	-	29.03	-	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	02/01/2018	30.85	DRY	-	-	-	29.03	-	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	02/20/2018	30.85	28.20	-	-	-	29.11	2.65	10:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/06/2018	30.85	27.58	-	-	-	-	3.27	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/29/2018	30.85	26.98	-	-	-	-	3.87	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/11/2018	30.85	27.36	-	-	-	-	3.49	8:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/23/2018	30.85	27.23	-	-	-	-	3.62	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/03/2018	30.85	27.18	-	-	-	-	3.67	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/21/2018	30.85	26.28	-	-	-	29.21	4.57	14:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/12/2018	30.85	25.95	-	-	-	-	4.90	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/26/2018	30.85	26.17	-	-	-	29.03	4.68	9:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/02/2018	30.85	26.12	-	-	-	-	4.73	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/17/2018	30.85	26.10	-	-	-	-	4.75	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/30/2018	30.85	25.16	-	-	-	-	5.69	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/09/2018	30.85	24.95	-	-	-	-	5.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/13/2018	30.85	27.79	-	-	-	31.37	3.06	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/04/2018	30.85	24.82	-	-	-	-	6.03	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/25/2018	30.85	24.13	-	-	-	-	6.72	13:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/02/2018	30.85	24.24	-	-	-	-	6.61	12:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	10/24/2018	30.85	25.79	-	-	-	-	5.06	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/12/2018	30.85	24.75	-	-	-	-	6.10	13:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	11/13/2018	30.85	24.52	-	-	-	28.52	6.33	10:35	-	-	-	-	-	-	-	-	-	-	-	7,300	
MW-11	11/27/2018	30.85	24.27	-	-	-	-	6.58	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	12/11/2018	30.85	25.02	-	-	-	-	5.83	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	12/27/2018	30.85	24.87	-	-	-	-	5.98	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	01/10/2019	30.85	25.19	-	-	-	-	5.66	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/31/2014	31.22	28.04	-	-	-	38.15	3.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/08/2014	31.22	28.21	-	-	-	38.14	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/11/2014	31.22	27.81	-	-	-	-	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/15/2014	31.22	27.43	-	-	-	-	3.79	-	-	-	-	-	-	-	-	-	-	-	-	305	
MW/RW-14	08/18/2014	31.22	27.17	-	-	-	-	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/25/2014	31.22	26.83	-	-	-	-	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	09/02/2014	31.22	27.25	-	-	-	-	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	09/15/2014	31.22	27.15	-	-	-	-	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	09/22/2014	31.22	27.04	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	10/01/2014	31.22	27.23	-	-	-	37.28	3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-14	10/13/2014	31.22	27.25	27.25	TRACE	-	-	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-14	10/20/2014	31.22	27.32	-	-	-	37.30	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	10/22/2014	31.22	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,100	
MW/RW-14	02/24/2015	31.22	27.42	-	-	-	37.31	3.80	13:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	02/25/2015	31.22	27.46	-	-	-	37.31	3.76	10:47	-	-	-	-	-	-	-	-	-	-	-	6,000	
MW/RW-14	03/04/2015	31.22	27.39	-	-	-	-	3.83	14:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	03/11/2015	31.22	26.94	-	-	-	-	4.28	12:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	03/18/2015	31.22	27.13	-	-	-	-	4.09	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	03/26/2015	31.22	26.92	-	-	-	37.30	4.30	11:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/02/2015	31.22	27.04	-	-	-	37.25	4.18	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/08/2015	31.22	27.30	-	-	-	37.21	3.92	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/13/2015	31.22	27.30	-	-	-	-	3.92	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/23/2015	31.22	26.72	-	-	-	37.25	4.50	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/29/2015	31.22	26.94	-	-	-	37.25	4.28	14:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/04/2015	31.22	26.77	-	-	-	-	4.45	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/11/2015	31.22	26.71	-	-	-	37.37	4.51	14:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/12/2015	31.22	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,500	
MW/RW-14	05/21/2015	31.22	26.93	-	-	-	37.33	4.29	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/28/2015	31.22	27.25	-	-	-	37.25	3.97	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/02/2015	31.22	26.92	-	-	-	-	4.30	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/09/2015	31.22	26.67	-	-	-	-	4.55	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/16/2015	31.22	26.73	-	-	-	-	4.49	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/26/2015	31.22	26.65	-	-	-	37.30	4.57	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/01/2015	31.22	26.12	-	-	-	-	5.10	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/04/2015	31.22	26.26	-	-	-	37.28	4.96	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/05/2015	31.22	26.75	-	-	-	37.27	4.47	8:50	-	-	-	-	-	-	-	-	-	-	-	7,300	Sheen
MW/RW-14	12/01/2015	31.22	26.88	-	-	-	37.30	4.34	13:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	12/02/2015	31.22	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600	
MW/RW-14	03/14/2016	31.22	26.93	-	-	-	37.30	4.29	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	03/15/2016	31.22	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28,000	
MW/RW-14	04/21/2016	31.22	28.05	27.42	0.63	0.75	-	3.72	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/05/2016	31.22	29.03	28.20	0.83	-	-	2.92	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/23/2016	31.22	26.82	26.81	0.01	-	-	4.41	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/21/2016	31.22	28.18	27.77	0.41	0.06	-	3.40	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/21/2016	31.22	28.85	27.90	0.95	0.44	-	3.20	11:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/04/2016	31.33	28.32	27.75	0.57	0.00	-	3.51	12:00	-	-	-	-	-	-	-	-	-	-	-	-	installed pump & lines & started

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-14	08/24/2016	31.33	30.32	-	-	-	-	1.01	10:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/25/2016	31.33	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15,000	pump in well
MW/RW-14	09/22/2016	31.33	31.30	-	-	-	-	0.03	13:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	10/20/2016	31.33	31.22	-	-	-	-	0.11	11:14	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/28/2016	31.33	30.87	-	-	-	-	0.46	10:12	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/29/2016	31.33	27.47	-	-	-	-	3.86	12:25	-	-	-	-	-	-	-	-	-	-	-	110,000	pump in well
MW/RW-14	12/22/2016	31.33	30.25	-	-	-	-	1.08	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	01/30/2017	31.33	27.67	-	-	-	-	3.66	12:16	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	02/21/2017	31.33	30.20	-	-	-	-	1.13	12:40	-	-	-	-	-	-	-	-	-	-	-	5,600	pump in well
MW/RW-14	03/29/2017	31.33	31.35	-	-	-	-	-0.02	12:27	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	04/18/2017	31.33	31.35	-	-	-	-	-0.02	12:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	05/18/2017	31.33	31.40	-	-	-	-	-0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	05/22/2017	31.33	27.11	-	-	-	-	4.22	12:57	-	-	-	-	-	-	-	-	-	-	-	1,390	pump in well
MW/RW-14	06/22/2017	31.33	31.45	-	-	-	-	-0.12	12:08	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	07/06/2017	31.33	31.10	-	-	-	-	0.23	13:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/21/2017	31.33	32.20	-	-	-	-	-0.87	9:48	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/28/2017	31.33	32.20	-	-	-	-	-0.87	9:15	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/31/2017	31.33	32.50	-	-	-	36.48	-1.17	9:15	-	-	-	-	-	-	-	-	-	-	-	7,380	pump in well
MW/RW-14	09/20/2017	31.33	32.18	-	-	-	-	-0.85	10:25	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	10/17/2017	31.33	31.40	-	-	-	-	-0.07	11:47	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/28/2017	31.33	31.47	-	-	-	-	-0.14	11:40	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	11/30/2017	31.33	NR	-	-	-	-	-	11:00	-	-	-	-	-	-	-	-	-	-	218	1,000	pump in well
MW/RW-14	01/26/2018	31.33	31.35	-	-	-	-	-0.02	12:45	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	02/20/2018	31.33	31.42	-	-	-	-	-0.09	11:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	02/21/2018	31.33	-	-	-	-	-	-	14:30	-	-	-	-	-	-	-	-	-	-	-	<83	pump in well
MW/RW-14	03/06/2018	31.33	27.5	-	-	-	-	3.83	12:23	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	03/29/2018	31.33	27.22	-	-	-	-	4.11	9:31	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	04/11/2018	31.33	27.75	-	-	-	-	3.58	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/23/2018	31.33	27.73	-	-	-	-	3.60	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/03/2018	31.33	27.6	-	-	-	-	3.73	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/24/2018	31.33	26.62	-	-	-	36.53	4.71	8:15	-	-	-	-	-	-	-	-	-	-	-	16,500	
MW/RW-14	06/12/2018	31.33	26.4	-	-	-	-	4.93	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/26/2018	31.33	26.55	-	-	-	36.52	4.78	9:59	-	-	-	-	-	-	-	-	-	-	6,720 B	41,700	
MW/RW-14	07/02/2018	31.33	26.69	-	-	-	-	4.64	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/17/2018	31.33	26.75	-	-	-	-	4.58	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/30/2018	31.33	26.27	-	-	-	39.54	5.06	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/09/2018	31.33	26.38	-	-	-	-	4.95	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-14	08/13/2018	31.33	26.3	-	-	-	-	5.03	12:26	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	08/15/2018	31.33	30.89	-	-	-	-	0.44	9:35	-	-	-	-	-	-	-	-	-	-	-	67 J	pump in well
MW/RW-14	09/04/2018	31.33	26.60	-	-	-	-	4.73	10:25	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	09/25/2018	31.33	25.53	-	-	-	-	5.80	13:18	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	10/02/2018	31.33	25.76	-	-	-	-	5.57	12:04	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-14	10/24/2018	31.33	26.59	-	-	-	-	4.74	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	11/12/2018	32.92	27.20	-	-	-	-	5.72	13:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	11/13/2018	32.92	26.93	-	-	-	-	5.99	13:30	-	-	-	-	-	-	-	-	-	-	-	3,300	
MW/RW-14	11/27/2018	32.92	26.55	-	-	-	-	6.37	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	12/11/2018	32.92	27.4	-	-	-	-	5.52	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	12/27/2018	32.92	27.22	-	-	-	-	5.70	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	01/10/2019	32.92	28.12	-	-	-	-	4.80	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/08/2014	31.03	26.11	-	-	-	26.20	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/11/2014	31.03	26.11	-	-	-	-	4.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/15/2014	31.03	24.00	-	-	-	-	7.03	-	-	-	-	-	-	-	-	-	-	-	-	909	
MW-15S	08/18/2014	31.03	24.67	-	-	-	-	6.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/25/2014	31.03	24.82	-	-	-	-	6.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	09/02/2014	31.03	24.82	-	-	-	-	6.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	09/15/2014	31.03	24.96	-	-	-	-	6.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	09/22/2014	31.03	25.06	-	-	-	-	5.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/01/2014	31.03	25.20	-	-	-	25.88	5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/13/2014	31.03	26.37	-	-	-	-	4.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/20/2014	31.03	25.45	-	-	-	25.90	5.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	10/22/2014	31.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,800	
MW-15S	02/26/2015	31.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,800	
MW-15S	05/11/2015	31.03	25.33	-	-	-	26.00	5.70	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/12/2015	31.03	25.35	-	-	-	-	5.68	12:10	-	-	-	-	-	-	-	-	-	-	-	1,800	
MW-15S	08/04/2015	31.03	22.16	-	-	-	25.90	8.87	9:47	-	-	-	-	-	-	-	-	-	-	-	5,900	
MW-15S	12/01/2015	31.03	25.46	-	-	-	25.88	5.57	11:03	-	-	-	-	-	-	-	-	-	-	-	4,200	
MW-15S	03/14/2016	31.03	25.58	-	-	-	26.00	5.45	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/23/2016	31.03	25.29	-	-	-	26.00	5.74	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	07/21/2016	31.03	25.44	-	-	-	-	5.59	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/24/2016	31.03	22.07	-	-	-	25.86	8.96	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/28/2016	31.03	25.15	-	-	-	26.70	5.88	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/29/2016	31.03	25.14	-	-	-	25.94	5.89	9:47	-	-	-	-	-	-	-	-	-	-	-	160	
MW-15S	02/21/2017	31.03	25.45	-	-	-	25.90	5.58	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/22/2017	31.03	24.60	-	-	-	25.90	6.43	11:08	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-15S	08/28/2017	31.03	25.45	-	-	-	25.91	5.58	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/29/2017	31.03	25.33	-	-	-	25.96	5.70	13:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/28/2017	31.03	25.47	-	-	-	25.60	5.56	14:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/30/2017	31.03	25.40	-	-	-	25.93	5.63	9:50	-	-	-	-	-	-	-	-	-	-	-	1,750	
MW-15S	02/20/2018	31.03	21.60	-	-	-	25.90	9.43	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/21/2018	31.03	23.57	-	-	-	25.95	7.46	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/22/2018	31.03	23.41	-	-	-	25.95	7.62	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/13/2018	31.03	23.99	-	-	-	27.92	7.04	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/12/2018	31.03	21.28	-	-	-	25.90	9.75	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	11/13/2018	31.03	20.62	-	-	-	25.90	10.41	9:42	-	-	-	-	-	-	-	-	-	-	-	360	
MW-16S	08/15/2014	31.03	24.13	-	-	-	24.61	6.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/16/2014	31.03	24.12	-	-	-	24.48	6.91	-	-	-	-	-	-	-	-	-	-	-	-	1,720	
MW-16S	08/18/2014	31.03	24.13	-	-	-	-	6.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/25/2014	31.03	24.24	-	-	-	-	6.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/02/2014	31.03	DRY	-	-	-	24.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/15/2014	31.03	DRY	-	-	-	24.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/22/2014	31.03	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	10/01/2014	31.03	DRY	-	-	-	24.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	10/10/2014	31.03	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	10/20/2014	31.03	DRY	-	-	-	24.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/24/2015	31.03	DRY	-	-	-	24.70	-	15:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/11/2015	31.03	DRY	-	-	-	24.70	-	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/04/2015	31.03	22.63	-	-	-	24.62	8.40	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	09/09/2015	31.03	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	
MW-16S	12/01/2015	31.03	DRY	-	-	-	24.64	-	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	03/14/2016	31.03	DRY	-	-	-	24.70	-	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/23/2016	31.03	DRY	-	-	-	24.82	-	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/24/2016	31.03	DRY	-	-	-	24.65	-	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	11/28/2016	31.03	DRY	-	-	-	24.68	-	8:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/21/2017	31.03	DRY	-	-	-	24.67	-	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/22/2017	31.03	DRY	-	-	-	24.55	-	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/28/2017	31.03	DRY	-	-	-	24.69	-	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	11/28/2017	31.03	DRY	-	-	-	24.62	-	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/20/2018	31.03	DRY	-	-	-	25.87	-	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/21/2018	31.03	DRY	-	-	-	24.68	-	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/13/2018	31.03	DRY	-	-	-	25.29	-	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	11/12/2018	31.03	21.21	-	-	-	24.62	9.82	9:44	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-16	08/15/2014	30.97	26.78	-	-	-	35.74	4.19	-	-	-	-	-	-	-	-	-	-	-	-	<300	
MW-16	08/18/2014	30.97	26.73	-	-	-	-	4.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/25/2014	30.97	26.55	-	-	-	-	4.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	09/02/2014	30.97	26.91	-	-	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	09/15/2014	30.97	26.76	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	09/22/2014	30.97	26.80	-	-	-	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/01/2014	30.97	26.95	-	-	-	35.53	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/10/2014	30.97	26.85	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/20/2014	30.97	27.19	-	-	-	35.61	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	10/22/2014	30.97	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	-	<45	
MW-16	02/24/2015	30.97	27.25	-	-	-	35.61	3.72	13:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/25/2015	30.97	27.23	-	-	-	35.62	3.74	11:14	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	<20	-	<45	
MW-16	05/11/2015	30.97	26.43	-	-	-	35.60	4.54	14:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/12/2015	30.97	26.90	-	-	-	-	4.07	9:52	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	-	<45	
MW-16	08/04/2015	30.97	24.75	-	-	-	35.55	6.22	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/05/2015	30.97	25.04	-	-	-	35.53	5.93	9:51	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-16	12/01/2015	30.97	26.55	-	-	-	27.90	4.42	13:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	03/14/2016	30.97	26.67	-	-	-	35.55	4.30	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/23/2016	30.97	26.65	-	-	-	35.82	4.32	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/24/2016	30.97	26.75	-	-	-	35.55	4.22	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/28/2016	30.97	27.24	-	-	-	35.49	3.73	8:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/29/2016	30.97	27.05	-	-	-	35.80	3.92	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	<45	
MW-16	02/21/2017	30.97	27.73	-	-	-	35.63	3.24	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/22/2017	30.97	27.39	-	-	-	-	3.58	10:00	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-16	05/22/2017	30.97	26.64	-	-	-	-	4.33	12:51	-	-	-	-	-	-	-	-	-	-	-	<64	
MW-16	08/28/2017	30.97	31.87	-	-	-	35.05	-0.90	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/30/2017	30.97	31.69	-	-	-	35.57	-0.72	12:44	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-16	11/28/2017	30.97	29.93	-	-	-	35.59	1.04	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/30/2017	30.97	29.85	-	-	-	35.59	1.12	10:15	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	-	103	
MW-16	02/20/2018	30.97	27.86	-	-	-	36.16	3.11	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/20/2018	30.97	27.91	-	-	-	35.55	3.06	13:28	-	-	-	-	-	-	-	-	-	-	-	103	
MW-16	05/21/2018	30.97	26.17	-	-	-	35.69	4.80	14:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/22/2018	30.97	26.41	-	-	-	35.60	4.56	9:48	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-16	08/13/2018	30.97	24.17	-	-	-	35.55	6.80	11:40	-	-	-	-	-	-	-	-	-	-	-	66 J	
MW-16	11/12/2018	30.97	21.92	-	-	-	35.38	9.05	12:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	11/14/2018	30.97	22.02	-	-	-	35.57	8.95	9:30	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	230	
MW-25S	08/08/2014	31.07	23.64	-	-	-	25.80	7.43	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-25S	08/11/2014	31.07	22.35	-	-	-	-	8.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/15/2014	31.07	21.94	-	-	-	-	9.13	-	-	-	-	-	-	-	-	-	-	-	-	49,000	
MW-25S	08/18/2014	31.07	21.95	-	-	-	-	9.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/25/2014	31.07	21.98	-	-	-	-	9.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/02/2014	31.07	21.99	-	-	-	-	9.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/15/2014	31.07	22.04	-	-	-	-	9.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/22/2014	31.07	22.50	-	-	-	-	8.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/24/2014	31.07	22.12	22.12	TRACE	-	-	8.95	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	10/01/2014	31.07	22.07	-	-	-	25.47	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/10/2014	31.07	22.09	22.09	TRACE	-	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	10/13/2014	31.07	22.13	22.11	0.02	TRACE	-	8.96	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/20/2014	31.07	22.19	22.18	0.01	TRACE	-	8.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/27/2014	31.07	22.10	22.09	0.01	TRACE	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/07/2014	31.07	22.08	22.07	0.01	TRACE	-	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/12/2014	31.07	22.28	22.10	0.18	0.06	-	8.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/21/2014	31.07	22.43	22.18	0.25	0.09	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/26/2014	31.07	22.37	22.17	0.20	0.06	-	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/05/2014	31.07	22.57	22.20	0.37	-	25.50	8.82	-	-	-	-	-	-	-	-	-	-	-	-	840,000	HIT event
MW-25S	12/11/2014	31.07	22.22	22.21	0.01	TRACE	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/16/2014	31.07	22.38	22.11	0.27	0.03	-	8.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/23/2014	31.07	22.43	22.13	0.30	0.05	-	8.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/30/2014	31.07	22.50	22.20	0.30	0.04	-	8.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/09/2015	31.07	22.49	22.19	0.30	-	-	8.84	-	-	-	-	-	-	-	-	-	-	-	-	2,200,000	HIT event
MW-25S	01/16/2015	31.07	22.60	22.48	0.12	0.01	-	8.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/19/2015	31.07	22.34	22.25	0.09	0.01	-	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/26/2015	31.07	22.30	22.16	0.14	0.02	-	8.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/03/2015	31.07	22.25	-	-	-	25.50	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/09/2015	31.07	22.31	22.14	0.17	-	-	8.91	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	02/18/2015	31.07	22.37	22.18	0.19	-	-	8.87	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	02/24/2015	31.07	22.59	22.28	0.31	-	-	8.75	14:03	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	03/04/2015	31.07	22.48	22.30	0.18	-	-	8.75	14:31	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	03/11/2015	31.07	22.50	22.30	0.20	-	-	8.75	13:04	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	03/18/2015	31.07	22.46	22.23	0.23	-	-	8.81	11:26	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	03/26/2015	31.07	22.35	22.17	0.18	-	25.50	8.88	11:59	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	04/02/2015	31.07	22.40	22.18	0.22	-	25.45	8.86	12:06	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	04/08/2015	31.07	22.40	22.08	0.32	-	25.47	8.95	9:15	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-25S	04/13/2015	31.07	22.50	22.22	0.28	-	-	8.82	11:03	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	04/23/2015	31.07	22.39	22.16	0.23	-	25.50	8.88	12:25	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	04/29/2015	31.07	22.35	22.12	0.23	-	25.50	8.92	14:48	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	05/04/2015	31.07	22.47	22.19	0.28	-	-	8.85	12:04	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	05/11/2015	31.07	22.45	22.20	0.25	-	-	8.84	11:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	05/21/2015	31.07	22.40	22.23	0.17	-	-	8.82	12:53	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	05/28/2015	31.07	22.60	22.27	0.33	-	25.50	8.76	12:06	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	06/02/2015	31.07	22.53	22.25	0.28	-	-	8.79	13:24	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	06/09/2015	31.07	22.38	22.16	0.22	-	-	8.88	10:46	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	06/16/2015	31.07	22.37	22.13	0.24	-	-	8.91	11:40	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	06/26/2015	31.07	22.35	22.12	0.23	-	25.40	8.92	11:28	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	07/01/2015	31.07	22.23	22.04	0.19	-	-	9.01	12:18	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	07/08/2015	31.07	22.08	21.88	0.20	0.04	-	9.17	12:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/13/2015	31.07	21.89	21.74	0.15	-	-	9.31	9:48	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW-25S	07/20/2015	31.07	21.37	21.33	0.04	TRACE	-	9.74	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/28/2015	31.07	21.20	-	-	-	25.49	9.87	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/04/2015	31.07	21.28	21.24	TRACE	TRACE	-	9.79	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/11/2015	31.07	21.37	21.36	0.01	0.01	25.49	9.71	11:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/18/2015	31.07	21.51	21.46	0.05	TRACE	-	9.60	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/24/2015	31.07	21.60	21.54	0.06	TRACE	-	9.52	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/02/2015	31.07	21.76	21.69	0.07	0.01	25.47	9.37	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/09/2015	31.07	21.81	21.77	0.04	0.01	25.49	9.30	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/17/2015	31.07	21.92	21.89	0.03	0.01	25.52	9.18	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/23/2015	31.07	21.92	21.89	0.03	TRACE	-	9.18	11:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/28/2015	31.07	21.96	21.92	0.04	TRACE	25.48	9.15	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/05/2015	31.07	22.01	21.98	0.03	TRACE	25.51	9.09	11:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/10/2015	31.07	22.09	22.06	0.03	TRACE	-	9.01	13:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/01/2015	31.07	22.19	22.16	0.03	-	25.43	8.91	12:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	01/27/2016	31.07	22.10	22.08	0.02	-	-	8.99	10:56	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	02/15/2016	31.07	22.10	22.07	0.03	TRACE	-	9.00	10:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	03/14/2016	31.07	22.02	-	-	-	25.50	9.05	9:20	-	-	-	-	-	-	-	-	-	-	-	-	strong product odor
MW-25S	04/21/2016	31.07	22.38	22.35	0.03	TRACE	-	8.72	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/23/2016	31.07	22.16	22.14	0.02	TRACE	-	8.93	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	06/21/2016	31.07	22.17	22.13	0.04	TRACE	-	8.94	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/21/2016	31.07	22.02	-	-	-	-	9.05	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/24/2016	31.07	22.07	-	-	-	25.65	9.00	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/25/2016	31.07	22.16	-	-	-	25.52	8.91	11:15	-	-	-	-	-	-	-	-	-	-	-	24,000	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-25S	11/28/2016	31.07	22.48	-	-	-	25.49	8.59	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/29/2016	31.07	22.51	-	-	-	25.51	8.56	-	3	<0.5	4	2	-	-	-	-	9	-	-	1,200,000	Sheen
MW-25S	02/21/2017	31.07	23.62	23.60	0.02	TRACE	25.41	7.47	11:14	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-25S	03/28/2017	31.07	23.83	-	-	-	25.43	7.24	15:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	03/29/2017	33.28	25.35	-	-	-	25.57	7.93	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/18/2017	33.28	27.08	-	-	-	27.17	6.20	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/22/2017	33.28	23.67	-	-	-	27.16	9.61	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/23/2017	33.28	22.03	-	-	-	27.20	11.25	13:10	-	-	-	-	-	-	-	-	-	-	-	42,500	
MW-25S	06/22/2017	33.28	27.05	-	-	-	27.19	6.23	11:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/19/2017	33.28	27.08	-	-	-	27.15	6.20	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/21/2017	33.28	23.56	-	-	-	27.32	9.72	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/28/2017	33.28	23.70	-	-	-	27.35	9.58	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/31/2017	33.28	23.68	-	-	-	27.34	9.60	9:23	-	-	-	-	-	-	-	-	-	-	1,640	32,200	
MW-25S	09/05/2017	33.28	23.63	-	-	-	-	9.65	13:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/20/2017	33.28	23.74	-	-	-	-	9.54	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/03/2017	33.28	23.88	-	-	-	-	9.40	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	10/17/2017	33.28	23.92	-	-	-	-	9.36	11:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/02/2017	33.28	23.98	-	-	-	-	9.30	11:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/28/2017	33.28	24.00	-	-	-	27.28	9.28	14:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	11/29/2017	33.28	24.00	-	-	-	27.33	9.28	13:27	<0.50	<1.0	<1.0	<1.0	-	-	-	-	1.3 J	-	55,900	56,500	
MW-25S	12/05/2017	33.28	DRY	-	-	-	24.02	-	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/19/2017	33.28	24.13	-	-	-	-	9.15	10:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/18/2018	33.28	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	834	34,600	
MW-25S	01/18/2018	33.28	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27,500	30,300	
MW-25S	01/18/2018	33.28	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,670	34,200	
MW-25S	01/03/2018	33.28	24.25	-	-	-	-	9.03	12:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/26/2018	33.28	24.55	-	-	-	-	8.73	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/01/2018	33.28	24.43	-	-	-	-	8.85	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/20/2018	33.28	24.10	-	-	-	27.24	9.18	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/21/2018	33.28	24.08	-	-	-	27.35	9.20	14:45	-	-	-	-	-	-	-	-	-	-	4,660	36,000	
MW-25S	03/06/2018	33.28	23.95	-	-	-	-	9.33	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	03/29/2018	33.28	23.88	-	-	-	-	9.40	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/11/2018	33.28	24.02	-	-	-	-	9.26	9:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/23/2018	33.28	23.88	-	-	-	-	9.40	9:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/03/2018	33.28	23.85	-	-	-	-	9.43	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/03/2018	31.22	22.08	-	-	-	-	9.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/21/2018	31.22	21.81	-	-	-	25.44	9.41	9:58	-	-	-	-	-	-	-	-	-	-	-	64,100	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-25S	06/12/2018	31.22	21.91	-	-	-	-	9.31	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	06/26/2018	31.22	21.84	-	-	-	25.43	9.38	10:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/02/2018	31.22	21.85	-	-	-	-	9.37	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/17/2018	31.22	21.89	-	-	-	-	9.33	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/30/2018	31.22	21.33	-	-	-	-	9.89	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/09/2018	31.22	21.27	-	-	-	-	9.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/13/2018	31.22	21.20	-	-	-	25.46	10.02	11:54	-	-	-	-	-	-	-	-	-	-	-	34,000	
MW-25S	09/04/2018	31.22	20.88	-	-	-	-	10.34	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/25/2018	31.22	24.76	-	-	-	-	-	13:24	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-25S	10/02/2018	31.22	22.05	-	-	-	26.87	-	10:25	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-25S	10/24/2018	31.22	26.70	-	-	-	27.02	-	9:56	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-25S	11/12/2018	32.44	22.34	-	-	-	-	10.10	9:47	<0.2	0.3 J	<0.2	<0.5	-	-	-	-	<4	-	-	11,000	
MW-25S	11/27/2018	32.44	22.57	-	-	-	-	9.87	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/11/2018	32.44	22.32	-	-	-	-	10.12	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	12/27/2018	32.44	22.17	-	-	-	-	10.27	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	01/10/2019	32.44	22.27	-	-	-	-	10.17	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/08/2014	31.13	27.97	27.60	0.37	0.08	36.69	3.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/11/2014	31.13	27.61	27.37	0.24	NA	-	3.73	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/13/2014	31.13	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,280	
MW/RW-25	08/15/2014	31.13	28.11	28.05	0.06	NA	-	3.07	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/16/2014	31.13	27.81	27.75	0.06	NA	-	3.37	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/18/2014	31.13	27.94	27.71	0.23	NA	-	3.39	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducer installed for pump test
MW/RW-25	08/25/2014	31.13	26.89	26.74	0.15	0.05	-	4.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/02/2014	31.13	27.77	27.03	0.74	0.50	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/15/2014	31.13	27.69	26.87	0.82	NR	-	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/19/2014	31.13	28.10	26.95	1.15	0.93	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/22/2014	31.13	27.53	26.91	0.62	0.38	-	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/24/2014	31.13	27.73	27.23	0.50	NR	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-25	10/01/2014	31.13	27.47	27.02	0.45	0.19	35.90	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/10/2014	31.13	27.65	26.91	0.74	0.50	-	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/13/2014	31.13	27.60	27.03	0.57	NR	-	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/20/2014	31.13	27.49	27.19	0.30	0.13	-	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/27/2014	31.13	27.87	27.25	0.62	NR	-	3.80	-	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-25	11/07/2014	31.13	27.53	27.08	0.45	0.19	-	4.00	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-25	11/12/2014	31.13	27.50	27.07	0.43	0.19	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	11/21/2014	31.13	28.53	27.81	0.72	0.16	-	3.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	11/26/2014	31.13	27.70	27.23	0.47	0.19	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	12/05/2014	31.13	27.63	27.15	0.48	-	35.87	3.92	-	-	-	-	-	-	-	-	-	-	-	-	50,000	HIT event
MW/RW-25	12/11/2014	31.13	27.31	26.98	0.33	0.06	-	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	12/16/2014	31.13	27.27	27.04	0.23	0.03	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	12/23/2014	31.13	27.20	26.95	0.25	0.04	-	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	12/30/2014	31.13	28.02	27.33	0.69	0.28	-	3.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	01/09/2015	31.13	27.80	27.38	0.42	-	-	3.70	-	-	-	-	-	-	-	-	-	-	-	-	56,000	HIT event
MW/RW-25	01/16/2015	31.13	27.24	27.16	0.08	0.00	-	3.96	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	01/19/2015	31.13	27.28	26.97	0.31	0.06	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	01/26/2015	31.13	27.27	26.98	0.29	0.05	-	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/03/2015	31.13	28.10	27.52	0.58	-	35.86	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/09/2015	31.13	27.43	27.06	0.37	-	-	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/18/2015	31.13	27.63	27.24	0.39	-	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	02/24/2015	31.13	27.68	27.18	0.50	-	-	3.89	14:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/04/2015	31.13	27.85	27.19	0.66	-	-	3.86	14:35	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/11/2015	31.13	27.27	26.76	0.51	-	-	4.31	13:08	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/18/2015	31.13	27.63	26.93	0.70	-	-	4.11	11:30	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	03/26/2015	31.13	27.31	26.70	0.61	-	35.90	4.36	12:03	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/02/2015	31.13	27.60	26.85	0.75	-	35.80	4.19	12:09	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/08/2015	31.13	28.00	27.15	0.85	-	35.90	3.88	9:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/13/2015	31.13	27.98	27.05	0.93	-	-	3.97	11:06	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/23/2015	31.13	27.21	26.47	0.74	-	35.90	4.57	12:28	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	04/29/2015	31.13	27.50	26.67	0.83	-	35.90	4.36	14:52	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/04/2015	31.13	27.37	26.57	0.80	-	-	4.46	12:08	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/11/2015	31.13	27.50	27.43	0.07	-	-	3.69	15:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/13/2015	31.13	28.31	27.19	1.12	1.50	-	3.80	12:53	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/21/2015	31.13	26.85	26.82	0.03	-	-	4.31	12:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	05/28/2015	31.13	27.55	27.09	0.46	-	35.80	3.98	12:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/02/2015	31.13	27.10	26.74	0.36	-	-	4.35	13:28	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/09/2015	31.13	26.91	26.46	0.45	-	-	4.62	10:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/16/2015	31.13	26.86	26.56	0.30	-	-	4.53	11:43	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	06/26/2015	31.13	26.91	26.48	0.43	-	35.80	4.60	11:31	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	07/01/2015	31.13	26.43	25.98	0.45	-	-	5.10	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/08/2015	31.13	26.63	26.13	0.50	0.25	-	4.94	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/13/2015	31.13	26.13	25.89	0.24	-	-	5.21	9:50	-	-	-	-	-	-	-	-	-	-	-	-	HIT event

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-25	07/20/2015	31.13	26.23	26.23	TRACE	TRACE	-	4.90	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/28/2015	31.13	26.37	26.23	0.14	TRACE	36.00	4.88	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/04/2015	31.13	26.27	26.20	0.07	0.02	-	4.92	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/11/2015	31.13	26.05	25.90	0.15	0.03	35.88	5.21	11:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/18/2015	31.13	26.52	26.42	0.10	0.01	-	4.70	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/24/2015	31.13	26.55	26.33	0.22	0.02	-	4.77	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/02/2015	31.13	26.80	26.62	0.18	0.02	35.92	4.49	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/09/2015	31.13	26.51	26.45	0.06	0.02	35.93	4.67	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/17/2015	31.13	26.73	26.53	0.20	0.04	35.95	4.58	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/23/2015	31.13	26.82	26.63	0.19	0.02	-	4.48	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/28/2015	31.13	26.34	26.31	0.03	0.01	35.89	4.82	9:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	10/05/2015	31.13	26.21	26.06	0.15	0.05	35.87	5.05	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	11/10/2015	31.13	26.05	26.02	0.03	-	-	5.11	13:31	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-25	12/01/2015	30.52	26.19	26.06	0.13	-	-	4.44	13:54	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	01/27/2016	30.52	26.68	26.38	0.30	-	-	4.10	11:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	02/15/2016	30.52	26.88	26.59	0.29	-	-	3.89	10:39	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	03/14/2016	30.52	26.42	26.27	0.15	-	-	4.23	10:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	03/30/2016	30.52	32.73	-	-	-	-	-2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	04/21/2016	30.52	32.76	-	-	-	-	-2.24	10:18	-	-	-	-	-	-	-	-	-	-	-	5,800	pump in well
MW/RW-25	05/23/2016	30.52	32.81	-	-	-	33.70	-2.29	11:39	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	05/24/2016	30.52	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,900	pump in well
MW/RW-25	06/21/2016	30.52	32.76	-	-	-	-	-2.24	10:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	07/21/2016	30.52	32.75	-	-	-	-	-2.23	11:12	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	08/24/2016	30.52	30.20	-	-	-	-	0.32	10:40	-	-	-	-	-	-	-	-	-	-	-	4,600	pump in well
MW/RW-25	09/22/2016	30.52	32.70	-	-	-	-	-2.18	13:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	10/20/2016	30.52	32.85	-	-	-	-	-2.33	11:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	11/28/2016	30.52	32.65	-	-	-	-	-2.13	9:30	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	250	pump in well
MW/RW-25	12/22/2016	30.52	32.83	-	-	-	-	-2.31	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	01/30/2017	30.52	26.83	-	-	-	-	3.69	12:11	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	02/21/2017	30.52	32.85	-	-	-	-	-2.33	12:44	-	-	-	-	-	-	-	-	-	-	-	220	pump in well
MW/RW-25	03/29/2017	31.16	32.87	-	-	-	-	-1.71	12:20	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	04/18/2017	31.16	32.85	-	-	-	-	-1.69	11:50	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	05/18/2017	31.16	32.85	-	-	-	-	-1.69	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	05/22/2017	31.16	26.60	-	-	-	-	4.56	13:09	-	-	-	-	-	-	-	-	-	-	-	685	pump in well
MW/RW-25	06/22/2017	31.16	32.90	-	-	-	-	-1.74	12:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	07/06/2017	31.16	32.62	-	-	-	-	-1.46	12:38	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	07/19/2017	31.16	32.25	-	-	-	-	-1.09	12:01	-	-	-	-	-	-	-	-	-	-	-	-	pump in well

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-25	08/21/2017	31.16	32.95	-	-	-	-	-1.79	9:36	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	08/28/2017	31.16	32.12	-	-	-	-	-0.96	9:40	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	08/31/2017	31.16	31.91	-	-	-	35.14	-0.75	9:50	-	-	-	-	-	-	-	-	-	-	-	20,000	pump in well
MW/RW-25	09/20/2017	31.16	32.95	-	-	-	-	-1.79	10:20	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	10/17/2017	31.16	NR	-	-	-	32.40	-	11:42	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	11/28/2017	31.16	NR	-	-	-	26.28	-	12:36	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	11/30/2017	31.16	NR	-	-	-	-	-	11:45	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	153	162	pump in well
MW/RW-25	01/26/2018	31.16	32.90	-	-	-	-	-1.74	12:40	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	02/20/2018	31.16	27.70	-	-	-	-	3.46	10:50	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	02/22/2018	31.16	32.85	-	-	-	-	-1.69	10:10	-	-	-	-	-	-	-	-	-	-	<83	258	pump in well
MW/RW-25	03/06/2018	31.16	26.77	-	-	-	-	4.39	12:19	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	03/29/2018	31.16	26.43	-	-	-	-	4.73	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	04/11/2018	31.16	26.97	-	-	-	-	4.19	9:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	04/23/2018	31.16	26.95	-	-	-	-	4.21	9:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	05/03/2018	31.16	26.77	-	-	-	-	4.39	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	05/21/2018	31.16	25.81	-	-	-	35.21	5.35	14:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	05/22/2018	31.16	25.87	-	-	-	35.15	5.29	9:55	-	-	-	-	-	-	-	-	-	-	-	20,600	
MW/RW-25	06/12/2018	31.16	25.74	-	-	-	-	5.42	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	06/26/2018	31.16	25.79	-	-	-	35.00	5.37	10:09	-	-	-	-	-	-	-	-	-	-	963 B	8,260	
MW/RW-25	07/02/2018	31.16	25.99	-	-	-	-	5.17	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/17/2018	31.16	26.07	-	-	-	-	5.09	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/30/2018	31.16	25.60	-	-	-	-	5.56	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/09/2018	31.16	26.43	-	-	-	-	4.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/13/2018	31.16	25.53	-	-	-	35.12	5.63	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/14/2018	31.16	25.72	-	-	-	37.64	5.44	9:29	-	-	-	-	-	-	-	-	-	-	-	180,000	
MW/RW-25	09/04/2018	31.16	25.62	-	-	-	-	5.54	10:12	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	09/25/2018	31.16	24.79	-	-	-	-	6.37	13:22	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	10/02/2018	31.16	24.96	-	-	-	-	6.20	12:20	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-25	10/24/2018	31.16	27.02	-	-	-	-	4.14	9:57	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-25	11/12/2018	32.75	25.96	-	-	-	-	6.79	13:09	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	2,500	
MW/RW-25	11/27/2018	32.75	25.27	-	-	-	-	7.48	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	12/11/2018	32.75	26.02	-	-	-	-	6.73	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	12/27/2018	32.75	26.05	-	-	-	-	6.70	9:51	-	-	-	-	-	-	-	-		-	-	-	
MW/RW-25	01/10/2019	32.75	26.49	-	-	-	-	6.26	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/24/2014	31.44	27.59	-	-	-	-	3.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/31/2014	31.44	27.58	-	-	-	34.47	3.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/08/2014	31.44	27.69	-	-	-	34.46	3.75	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-27	08/11/2014	31.44	27.33	-	-	-	-	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/15/2014	31.44	27.90	-	-	-	-	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/16/2014	31.44	27.65	-	-	-	34.48	3.79	-	-	-	-	-	-	-	-	-	-	-	-	1,490	
MW-27	08/18/2014	31.44	27.62	-	-	-	-	3.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/25/2014	31.44	27.09	-	-	-	-	4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/02/2014	31.44	27.52	-	-	-	-	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/15/2014	31.44	27.38	-	-	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/22/2014	31.44	27.24	-	-	-	-	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	10/01/2014	31.44	27.44	-	-	-	34.27	4.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	10/10/2014	31.44	27.24	-	-	-	-	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	10/20/2014	31.44	27.59	-	-	-	34.13	3.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	10/23/2014	31.44	NR	-	-	-	-	-	-	0.5	<0.5	2	2	<0.5	2	<0.5	<0.5	6	100	-	1,900	
MW-27	10/27/2014	31.44	27.66	-	-	-	-	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/07/2014	31.44	27.43	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/12/2014	31.44	27.43	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/21/2014	31.44	28.23	-	-	-	-	3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/26/2014	31.44	27.64	-	-	-	-	3.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	12/05/2014	31.44	27.50	-	-	-	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	12/11/2014	31.44	27.38	-	-	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	12/16/2014	31.44	27.34	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	12/23/2014	31.44	27.22	-	-	-	-	4.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	12/30/2014	31.44	27.80	-	-	-	-	3.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	01/09/2015	31.44	27.59	-	-	-	-	3.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	01/16/2015	31.44	27.46	-	-	-	-	3.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	01/19/2015	31.44	27.38	-	-	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	01/26/2015	31.44	27.40	-	-	-	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/03/2015	31.44	28.01	-	-	-	34.05	3.43	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/09/2015	31.44	27.43	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/18/2015	31.44	27.52	-	-	-	-	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/24/2015	31.44	26.61	-	-	-	-	4.83	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/25/2015	31.44	27.45	-	-	-	34.06	3.99	13:38	<0.5	<0.5	1	0.5	<0.5	<2	<0.5	<0.5	8.3	120	-	1,700	
MW-27	03/04/2015	31.44	27.63	-	-	-	-	3.81	13:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	03/11/2015	31.44	27.11	-	-	-	-	4.33	12:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	03/18/2015	31.44	27.36	-	-	-	-	4.08	10:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	03/26/2015	31.44	27.20	-	-	-	34.00	4.24	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	04/02/2015	31.44	27.28	-	-	-	34.05	4.16	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	04/08/2015	31.44	27.55	-	-	-	34.04	3.89	9:30	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-27	04/13/2015	31.44	27.53	-	-	-	-	3.91	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	04/23/2015	31.44	26.92	-	-	-	34.05	4.52	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	04/29/2015	31.44	27.18	-	-	-	34.05	4.26	13:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/04/2015	31.44	26.96	-	-	-	-	4.48	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/11/2015	31.44	26.86	-	-	-	34.04	4.58	15:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/13/2015	31.44	27.55	-	-	-	-	3.89	9:52	<0.5	<0.5	2	1	<0.5	2 J	<0.5	<0.5	30	260	-	19,000	
MW-27	05/21/2015	31.44	27.12	-	-	-	34.12	4.32	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/28/2015	31.44	27.51	-	-	-	34.00	3.93	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	06/02/2015	31.44	27.11	-	-	-	-	4.33	12:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	06/09/2015	31.44	26.92	-	-	-	-	4.52	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	06/16/2015	31.44	26.86	-	-	-	-	4.58	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	06/26/2015	31.44	26.87	-	-	-	34.00	4.57	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/01/2015	31.44	26.38	-	-	-	-	5.06	11:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/08/2015	31.44	26.64	-	-	-	-	4.80	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/13/2015	31.44	26.19	-	-	-	-	5.25	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/20/2015	31.44	26.51	-	-	-	-	4.93	8:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/28/2015	31.44	26.55	-	-	-	34.13	4.89	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/04/2015	31.44	26.58	-	-	-	34.05	4.86	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/05/2015	31.44	27.06	27.06	TRACE	TRACE	34.07	4.38	8:16	-	-	-	-	-	-	-	-	-	-	-	2,100	
MW-27	08/11/2015	31.44	26.16	26.16	TRACE	TRACE	34.03	5.28	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/18/2015	31.44	26.77	-	-	-	-	4.67	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/24/2015	31.44	26.75	-	-	-	-	4.69	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/02/2015	31.44	27.09	27.09	TRACE	TRACE	34.08	4.35	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/09/2015	31.44	26.82	26.82	TRACE	TRACE	34.05	4.62	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/17/2015	31.44	27.16	-	-	-	34.08	4.28	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/23/2015	31.44	27.03	-	-	-	-	4.41	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	09/28/2015	31.44	26.52	-	-	-	34.09	4.92	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	10/05/2015	31.44	26.39	-	-	-	34.05	5.05	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/10/2015	31.44	26.97	-	-	-	-	4.47	12:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	12/01/2015	31.44	26.98	-	-	-	33.35	4.46	13:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	12/03/2015	31.44	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	1.00 J	-	-	1,700	
MW-27	01/27/2016	31.44	27.28	-	-	-	-	4.16	10:14	-	-	-	-	-	-	-	-	-	-	-	-	Sheen
MW-27	02/15/2016	31.44	27.64	-	-	-	-	3.80	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	03/14/2016	31.44	27.32	-	-	-	34.03	4.12	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	03/15/2016	31.44	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33,000	
MW-27	04/21/2016	31.44	27.85	-	-	-	33.80	3.59	10:30	-	-	-	-	-	-	-	-	-	-	-	8,400	Sheen
MW-27	05/23/2016	31.44	26.84	-	-	-	33.70	4.60	11:14	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-27	05/25/2016	31.44	28.07	-	-	-	33.81	3.37	-	-	-	-	-	-	-	-	-	-	-	-	18,000	
MW-27	06/21/2016	31.44	27.63	-	-	-	-	3.81	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	07/21/2016	31.44	27.53	-	-	-	-	3.91	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/24/2016	31.44	27.59	-	-	-	33.50	3.85	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/25/2016	31.44	27.62	-	-	-	33.60	3.82	11:10	-	-	-	-	-	-	-	-	-	-	-	3,100	
MW-27	09/22/2016	31.44	26.96	-	-	-	-	4.48	14:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/28/2016	31.44	27.84	-	-	-	34.40	3.60	8:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/29/2016	31.44	27.31	-	-	-	33.58	4.13	13:00	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	880	
MW-27	02/21/2017	31.44	28.25	-	-	-	33.78	3.19	12:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/22/2017	31.44	27.94	-	-	-	33.78	3.50	13:00	-	-	-	-	-	-	-	-	-	-	-	940	
MW-27	05/22/2017	31.44	27.18	-	-	-	33.71	4.26	13:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/23/2017	31.44	27.39	-	-	-	33.75	4.05	13:50	-	-	-	-	-	-	-	-	-	-	-	3,130	
MW-27	08/28/2017	31.44	33.15	-	-	-	33.63	-1.71	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/30/2017	31.44	32.96	-	-	-	33.64	-1.52	15:03	-	-	-	-	-	-	-	-	-	-	-	11,900	
MW-27	11/28/2017	31.44	31.39	-	-	-	32.45	0.05	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/29/2017	31.44	31.02	-	-	-	33.68	0.42	11:20	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	-	782	
MW-27	02/20/2018	31.44	28.62	-	-	-	35.53	2.82	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/21/2018	31.44	28.77	-	-	-	33.75	2.67	11:52	-	-	-	-	-	-	-	-	-	-	-	13,400	
MW-27	05/21/2018	31.44	26.60	-	-	-	33.70	4.84	13:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/24/2018	31.44	26.71	-	-	-	33.67	4.73	8:25	-	-	-	-	-	-	-	-	-	-	-	4,440	
MW-27	08/13/2018	31.44	26.46	-	-	-	33.71	4.98	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/14/2018	31.44	26.66	-	-	-	33.70	4.78	10:04	-	-	-	-	-	-	-	-	-	-	-	2,300	
MW-27	11/12/2018	31.44	26.37	-	-	-	33.78	5.07	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	11/14/2018	31.44	26.83	-	-	-	33.78	4.61	9:48	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	1,600	
MW-30S	08/08/2014	30.67	23.31	-	-	-	25.28	7.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	08/11/2014	30.67	23.33	-	-	-	-	7.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	08/15/2014	30.67	24.84	-	-	-	-	5.83	-	-	-	-	-	-	-	-	-	-	-	-	7,040	
MW-30S	08/18/2014	30.67	24.84	-	-	-	-	5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	08/25/2014	30.67	24.79	-	-	-	-	5.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	09/02/2014	30.67	24.83	-	-	-	-	5.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	09/15/2014	30.67	24.85	-	-	-	-	5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	09/22/2014	30.67	24.88	-	-	-	-	5.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	10/01/2014	30.67	24.88	-	-	-	25.28	5.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	10/10/2014	30.67	24.87	-	-	-	-	5.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	10/20/2014	30.67	24.77	-	-	-	25.29	5.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	10/23/2014	30.67	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	-	25	-	2,900	
MW-30S	10/27/2014	30.67	24.78	-	-	-	-	5.89	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-30S	11/07/2014	30.67	24.85	-	-	-	-	5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	11/12/2014	30.67	24.87	-	-	-	-	5.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	11/21/2014	30.67	24.94	-	-	-	-	5.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	11/26/2014	30.67	24.93	-	-	-	-	5.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	12/05/2014	30.67	24.92	-	-	-	-	5.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	12/11/2014	30.67	24.72	-	-	-	-	5.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	12/16/2014	30.67	24.74	-	-	-	-	5.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	12/23/2014	30.67	24.70	-	-	-	-	5.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	12/30/2014	30.67	24.68	-	-	-	-	5.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	01/09/2015	30.67	24.66	-	-	-	-	6.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	01/16/2015	30.67	24.62	-	-	-	-	6.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	01/19/2015	30.67	24.60	-	-	-	-	6.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	01/26/2015	30.67	24.48	-	-	-	-	6.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	02/03/2015	30.67	24.56	-	-	-	25.34	6.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	02/09/2015	30.67	24.57	-	-	-	-	6.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	02/18/2015	30.67	24.63	-	-	-	-	6.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	02/24/2015	30.67	24.24	-	-	-	25.31	6.43	15:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	02/25/2015	30.67	24.10	-	-	-	25.31	6.57	13:10	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3.9	22	-	3,500	
MW-30S	03/04/2015	30.67	24.20	-	-	-	-	6.47	14:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	03/11/2015	30.67	24.20	-	-	-	-	6.47	12:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	03/18/2015	30.67	24.22	-	-	-	-	6.45	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	03/26/2015	30.67	24.32	-	-	-	25.30	6.35	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	04/02/2015	30.67	24.27	-	-	-	25.30	6.40	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	04/08/2015	30.67	24.30	-	-	-	25.29	6.37	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	04/13/2015	30.67	24.31	-	-	-	-	6.36	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	04/23/2015	30.67	DRY	-	-	-	25.28	DRY	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	04/29/2015	30.67	24.27	-	-	-	25.25	6.40	13:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	05/04/2015	30.67	24.32	-	-	-	-	6.35	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	05/11/2015	30.67	24.41	-	-	-	25.20	6.26	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	05/13/2015	30.67	24.41	-	-	-	-	6.26	9:50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	-	3,200	
MW-30S	05/21/2015	30.67	24.68	-	-	-	25.15	5.99	12:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	05/28/2015	30.67	24.67	-	-	-	25.28	6.00	11:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	06/02/2015	30.67	24.55	-	-	-	-	6.12	12:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	06/09/2015	30.67	24.30	-	-	-	-	6.37	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	06/16/2015	30.67	24.33	-	-	-	-	6.34	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-30S	06/22/2015	Destroyed during overdrilling activities; replaced with RW-30S																				
MW/RW-31	08/08/2014	31.23	27.31	-	-	-	36.35	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-31	08/11/2014	31.23	26.88	-	-	-	-	4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/15/2014	31.23	27.00	-	-	-	-	4.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/16/2014	31.23	26.92	-	-	-	35.00	4.31	-	-	-	-	-	-	-	-	-	-	-	-	27,200	
MW/RW-31	08/18/2014	31.23	27.11	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/25/2014	31.23	26.90	-	-	-	-	4.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/02/2014	31.23	27.31	-	-	-	-	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/15/2014	31.23	27.18	-	-	-	-	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/22/2014	31.23	27.05	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/01/2014	31.23	27.21	-	-	-	35.50	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/10/2014	31.23	27.02	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/20/2014	31.23	27.40	-	-	-	35.50	3.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/23/2014	31.23	NR	-	-	-	-	-	-	<0.5	<0.5	0.6	0.6	<0.5	<2	<0.5	<0.5	4	140	-	7,200	
MW/RW-31	10/27/2014	31.23	27.43	-	-	-	-	3.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/07/2014	31.23	24.23	-	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/12/2014	31.23	27.18	-	-	-	-	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/21/2014	31.23	28.03	-	-	-	-	3.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/26/2014	31.23	27.39	-	-	-	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/05/2014	31.23	27.33	-	-	-	-	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/11/2014	31.23	27.14	-	-	-	-	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/16/2014	31.23	27.15	-	-	-	-	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/23/2014	31.23	27.02	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/30/2014	31.23	27.61	-	-	-	-	3.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	01/09/2015	31.23	27.42	-	-	-	-	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	01/16/2015	31.23	27.26	-	-	-	-	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	01/19/2015	31.23	27.20	-	-	-	-	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	01/26/2015	31.23	27.18	-	-	-	-	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/03/2015	31.23	27.81	-	-	-	35.49	3.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/09/2015	31.23	27.18	-	-	-	-	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/18/2015	31.23	27.34	-	-	-	-	3.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/24/2015	31.23	27.27	-	-	-	-	3.96	13:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/25/2015	31.23	27.50	-	-	-	35.52	3.73	10:28	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.7	97	-	1,800	
MW/RW-31	03/04/2015	31.23	27.45	-	-	-	-	3.78	14:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	03/11/2015	31.23	26.78	-	-	-	-	4.45	12:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	03/18/2015	31.23	27.13	-	-	-	-	4.10	10:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	03/26/2015	31.23	26.99	-	-	-	35.50	4.24	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	04/02/2015	31.23	27.04	-	-	-	35.45	4.19	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	04/08/2015	31.23	27.27	-	-	-	35.42	3.96	9:32	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-31	04/13/2015	31.23	27.35	-	-	-	-	3.88	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	04/23/2015	31.23	26.67	-	-	-	35.45	4.56	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	04/29/2015	31.23	26.97	-	-	-	35.40	4.26	13:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/04/2015	31.23	26.75	-	-	-	-	4.48	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/11/2015	31.23	26.65	-	-	-	35.40	4.58	14:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/13/2015	31.23	27.35	-	-	-	-	3.88	9:47	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3 J	120	-	14,000	
MW/RW-31	05/21/2015	31.23	26.87	-	-	-	35.50	4.36	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/28/2015	31.23	27.31	-	-	-	35.40	3.92	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	06/02/2015	31.23	26.87	-	-	-	-	4.36	12:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	06/09/2015	31.23	26.71	-	-	-	-	4.52	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	06/16/2015	31.23	26.68	-	-	-	-	4.55	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	06/26/2015	31.23	26.58	-	-	-	35.20	4.65	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/01/2015	31.23	26.02	-	-	-	-	5.21	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/08/2015	31.23	26.26	-	-	-	-	4.97	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/13/2015	31.23	25.88	-	-	-	-	5.35	9:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/20/2015	31.23	26.22	-	-	-	-	5.01	8:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/28/2015	31.23	26.31	-	-	-	35.56	4.92	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/04/2015	31.23	29.82	-	-	-	35.42	1.41	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/05/2015	31.23	26.78	-	-	-	35.47	4.45	8:22	-	-	-	-	-	-	-	-	-	-	-	2,400	
MW/RW-31	08/11/2015	31.23	25.93	-	-	-	35.43	5.30	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/18/2015	31.23	26.56	-	-	-	-	4.67	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/24/2015	31.23	26.55	-	-	-	-	4.68	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/02/2015	31.23	26.87	-	-	-	35.42	4.36	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/09/2015	31.23	26.61	-	-	-	35.47	4.62	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/17/2015	31.23	26.96	-	-	-	35.50	4.27	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/23/2015	31.23	26.82	-	-	-	-	4.41	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/28/2015	31.23	26.29	-	-	-	35.44	4.94	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/05/2015	31.23	26.11	-	-	-	35.42	5.12	9:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/10/2015	31.23	26.61	-	-	-	-	4.62	12:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/01/2015	31.23	26.27	-	-	-	-	4.96	13:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/03/2015	31.23	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200	
MW/RW-31	01/27/2016	31.23	26.24	-	-	-	-	4.99	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/15/2016	31.23	27.21	-	-	-	-	4.02	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	03/14/2016	31.23	26.76	-	-	-	-	4.47	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	03/15/2016	31.23	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW/RW-31	03/30/2016	31.42	32.98	-	-	-	-	-1.56	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	04/21/2016	31.42	33.03	-	-	-	-	-1.61	10:27	-	-	-	-	-	-	-	-	-	-	-	440	pump in well

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-31	05/23/2016	31.42	NR	-	-	-	-	-	11:13	-	-	-	-	-	-	-	-	-	-	-	-	Pump Obstruction during gauging
MW/RW-31	05/24/2016	31.42	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200	pump in well
MW/RW-31	06/21/2016	31.42	33.05	-	-	-	-	-1.63	10:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	07/21/2016	31.42	33.05	-	-	-	-	-1.63	9:48	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	08/24/2016	31.42	27.31	-	-	-	-	4.11	10:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	08/25/2016	31.42	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	830	pump in well
MW/RW-31	09/22/2016	31.42	27.60	-	-	-	-	3.82	13:15	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	10/20/2016	31.42	31.47	-	-	-	-	-0.05	10:54	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	11/28/2016	31.42	30.92	-	-	-	-	0.50	8:41	-	-	-	-	-	-	-	-	-	-	-	120	pump in well
MW/RW-31	12/22/2016	31.42	31.20	-	-	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	01/30/2017	31.42	27.74	-	-	-	-	3.68	12:21	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	02/21/2017	31.42	31.60	-	-	-	-	-0.18	12:36	-	-	-	-	-	-	-	-	-	-	-	580	pump in well
MW/RW-31	03/29/2017	31.42	31.40	-	-	-	-	0.02	12:43	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	04/18/2017	31.42	31.52	-	-	-	-	-0.10	11:57	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	05/18/2017	31.42	31.60	-	-	-	-	-0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	05/22/2017	31.42	26.76	-	-	-	-	4.66	10:55	-	-	-	-	-	-	-	-	-	-	-	655	pump in well
MW/RW-31	06/22/2017	31.42	31.10	-	-	-	-	0.32	11:47	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	07/06/2017	31.42	31.12	-	-	-	-	0.30	12:55	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	07/19/2017	31.42	31.45	-	-	-	-	-0.03	11:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	08/21/2017	31.42	31.30	-	-	-	-	0.12	9:24	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	08/28/2017	31.42	31.05	-	-	-	31.05	0.37	9:41	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	08/31/2017	31.42	33.02	-	-	-	33.73	-1.60	9:05	-	-	-	-	-	-	-	-	-	-	-	3,770	pump in well
MW/RW-31	09/20/2017	31.42	31.42	-	-	-	-	0.00	10:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	10/17/2017	31.42	31.05	-	-	-	-	0.37	11:22	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	11/28/2017	31.42	NR	-	-	-	29.40	-	11:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	11/30/2017	31.42	NR	-	-	-	-	-	11:00	-	-	-	-	-	-	-	-	-	-	-	167	pump in well
MW/RW-31	12/05/2017	31.42	31.70	-	-	-	29.20	-0.28	12:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	01/26/2018	31.42	OBST	-	-	-	29.95	-	12:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	02/20/2018	31.42	OBST	-	-	-	28.65	-	11:15	-	-	-	-	-	-	-	-	-	-	-	180	pump in well
MW/RW-31	03/06/2018	31.42	27.27	-	-	-	-	4.15	12:27	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	03/29/2018	31.42	26.68	-	-	-	-	4.74	10:20	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-31	04/11/2018	31.42	27.73	-	-	-	-	3.69	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	04/23/2018	31.42	27.53	-	-	-	-	3.89	8:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/03/2018	31.42	27.35	-	-	-	-	4.07	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/21/2018	31.42	25.83	-	-	-	33.72	5.59	13:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/22/2018	31.42	25.96	-	-	-	33.72	5.46	9:36	-	-	-	-	-	-	-	-	-	-	-	1,010	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-31	06/12/2018	31.42	25.60	-	-	-	-	5.82	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	06/26/2018	31.42	26.33	-	-	-	33.65	5.09	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/02/2018	31.42	26.53	-	-	-	-	4.89	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/17/2018	31.42	26.70	-	-	-	-	4.72	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/30/2018	31.42	25.89	-	-	-	-	5.53	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/09/2018	31.42	25.98	-	-	-	-	5.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/13/2018	31.42	25.36	-	-	-	36.34	6.06	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/14/2018	31.42	25.55	-	-	-	33.70	5.87	9:58	-	-	-	-	-	-	-	-	-	-	-	320	
MW/RW-31	09/04/2018	31.42	25.53	-	-	-	-	5.89	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	09/25/2018	31.42	24.77	-	-	-	-	6.65	13:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/02/2018	31.42	24.66	-	-	-	-	6.76	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	10/24/2018	31.42	25.89	-	-	-	-	5.53	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/12/2018	31.42	24.46	-	-	-	33.75	6.96	13:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	11/14/2018	31.42	24.39	-	-	-	33.75	7.03	9:44	-	-	-	-	-	-	-	-	-	-	-	240	
MW/RW-31	11/27/2018	31.42	23.94	-	-	-	-	7.48	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/11/2018	31.42	24.96	-	-	-	-	6.46	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	12/27/2018	31.42	24.78	-	-	-	-	6.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	01/10/2019	31.42	24.82	-	-	-	-	6.60	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/08/2014	30.88	27.91	-	-	-	35.41	2.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/11/2014	30.88	27.41	-	-	-	-	3.47	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/15/2014	30.88	26.98	-	-	-	34.45	3.90	-	-	-	-	-	-	-	-	-	-	-	-	440	
MW-33	08/18/2014	30.88	26.76	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/25/2014	30.88	26.47	-	-	-	-	4.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	09/02/2014	30.88	26.87	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	09/15/2014	30.88	26.73	-	-	-	-	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	09/22/2014	30.88	26.59	-	-	-	-	4.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	10/01/2014	30.88	26.79	-	-	-	34.47	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	10/10/2014	30.88	26.60	-	-	-	-	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	10/20/2014	30.88	26.96	-	-	-	34.47	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	10/23/2014	30.88	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	<20	-	<45	
MW-33	02/24/2015	30.88	26.99	-	-	-	-	3.89	13:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	02/25/2015	30.88	27.03	-	-	-	34.45	3.85	10:08	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	<20	-	<45	
MW-33	05/11/2015	30.88	26.22	-	-	-	34.40	4.66	14:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	05/13/2015	30.88	26.90	-	-	-	34.40	3.98	9:45	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.1	<20	-	<45	
MW-33	08/04/2015	30.88	25.91	-	-	-	34.39	4.97	12:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/05/2015	30.88	26.43	-	-	-	34.42	4.45	8:26	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-33	12/01/2015	30.88	26.37	-	-	-	34.40	4.51	13:35	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-33	12/03/2015	30.88	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-33	03/14/2016	30.88	26.59	-	-	-	34.46	4.29	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	05/23/2016	30.88	26.58	-	-	-	34.40	4.30	10:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/24/2016	30.88	26.80	-	-	-	34.40	4.08	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	11/28/2016	30.88	27.11	-	-	-	34.36	3.77	8:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	11/29/2016	30.88	26.87	-	-	-	34.40	4.01	11:15	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-33	02/21/2017	30.88	27.42	-	-	-	34.50	3.46	12:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	05/22/2017	30.88	26.30	-	-	-	34.40	4.58	13:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/28/2017	30.88	32.85	-	-	-	34.42	-1.97	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/30/2017	30.88	32.54	-	-	-	34.45	-1.66	14:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	11/28/2017	30.88	30.31	-	-	-	34.41	0.57	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	11/29/2017	30.88	30.17	-	-	-	34.47	0.71	11:34	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-33	02/20/2018	30.88	27.65	-	-	-	36.16	3.23	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	05/21/2018	30.88	25.86	-	-	-	-	5.02	13:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/13/2018	30.88	27.60	-	-	-	37.01	3.28	12:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	11/12/2018	30.88	25.33	-	-	-	-	5.55	13:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	11/14/2018	30.88	25.76	-	-	-	34.43	5.12	9:35	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-51S	08/08/2014	30.81	21.15	-	-	-	25.27	9.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/11/2014	30.81	21.27	-	-	-	-	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/15/2014	30.81	21.17	-	-	-	25.30	9.64	-	-	-	-	-	-	-	-	-	-	-	-	1,590	
MW-51S	08/18/2014	30.81	21.23	-	-	-	-	9.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/25/2014	30.81	21.34	-	-	-	-	9.47	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/02/2014	30.81	21.38	-	-	-	-	9.43	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/15/2014	30.81	21.46	-	-	-	-	9.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/22/2014	30.81	21.48	-	-	-	-	9.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/24/2014	30.81	21.49	-	-	-	-	9.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/01/2014	30.81	21.32	21.32	TRACE	-	25.30	9.49	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-51S	10/10/2014	30.81	21.53	-	-	-	-	9.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/13/2014	30.81	21.52	-	-	-	-	9.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/20/2014	30.81	21.58	-	-	-	25.33	9.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/22/2014	30.81	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,400	
MW-51S	10/27/2014	30.81	21.64	-	-	-	-	9.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/07/2014	30.81	21.53	-	-	-	-	9.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/12/2014	30.81	21.66	-	-	-	-	9.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/21/2014	30.81	21.73	-	-	-	-	9.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/05/2014	30.81	21.64	-	-	-	-	9.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/11/2014	30.81	21.72	-	-	-	-	9.09	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-51S	12/16/2014	30.81	21.78	-	-	-	-	9.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/23/2014	30.81	21.83	-	-	-	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/30/2014	30.81	21.87	-	-	-	-	8.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	01/09/2015	30.81	21.89	-	-	-	-	8.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	01/16/2015	30.81	21.80	-	-	-	-	9.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	01/19/2015	30.81	21.87	-	-	-	-	8.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	01/26/2015	30.81	21.82	-	-	-	-	8.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/03/2015	30.81	22.00	-	-	-	25.21	8.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/09/2015	30.81	21.92	-	-	-	-	8.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/18/2015	30.81	21.92	-	-	-	-	8.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/24/2015	30.81	21.96	-	-	-	25.33	8.85	16:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/26/2015	30.81	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,100	
MW-51S	03/11/2015	30.81	21.67	-	-	-	-	9.14	12:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/18/2015	30.81	21.71	-	-	-	-	9.10	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/26/2015	30.81	21.76	-	-	-	25.30	9.05	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/02/2015	30.81	21.80	-	-	-	25.30	9.01	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/08/2015	30.81	21.75	-	-	-	25.19	9.06	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/13/2015	30.81	21.87	-	-	-	-	8.94	10:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/23/2015	30.81	21.89	-	-	-	25.25	8.92	11:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/29/2015	30.81	21.88	-	-	-	25.25	8.93	14:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/04/2015	30.81	21.89	-	-	-	-	8.92	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/11/2015	30.81	21.93	-	-	-	24.50	8.88	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/13/2015	30.81	21.95	-	-	-	-	8.86	10:00	-	-	-	-	-	-	-	-	-	-	-	17,000	
MW-51S	05/21/2015	30.81	21.68	-	-	-	25.35	9.13	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/28/2015	30.81	21.93	-	-	-	25.30	8.88	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	06/09/2015	30.81	21.85	-	-	-	-	8.96	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	06/16/2015	30.81	21.79	-	-	-	-	9.02	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	06/26/2015	30.81	21.62	-	-	-	-	9.19	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/08/2015	30.81	21.33	-	-	-	-	9.48	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/13/2015	30.81	21.62	-	-	-	-	9.19	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/20/2015	30.81	21.57	-	-	-	-	9.24	9:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/28/2015	30.81	21.37	-	-	-	25.35	9.44	11:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/04/2015	30.81	21.21	-	-	-	25.30	9.60	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/05/2015	30.81	21.25	-	-	-	25.30	9.56	9:12	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW-51S	08/11/2015	30.81	21.28	-	-	-	25.31	9.53	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/18/2015	30.81	21.22	-	-	-	-	9.59	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/24/2015	30.81	21.27	-	-	-	-	9.54	10:30	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-51S	09/02/2015	30.81	21.35	-	-	-	25.30	9.46	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/09/2015	30.81	21.42	-	-	-	25.32	9.39	10:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/17/2015	30.81	21.52	-	-	-	25.43	9.29	10:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/23/2015	30.81	21.48	-	-	-	-	9.33	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/28/2015	30.81	21.56	-	-	-	25.30	9.25	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/05/2015	30.81	21.55	-	-	-	25.61	9.26	9:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/10/2015	30.81	21.67	-	-	-	-	9.14	13:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/01/2015	30.81	21.80	-	-	-	25.30	9.01	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/02/2015	30.81	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,000	
MW-51S	01/27/2016	30.81	21.95	-	-	-	-	8.86	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/15/2016	30.81	21.31	-	-	-	-	9.50	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/14/2016	30.81	21.23	-	-	-	25.30	9.58	12:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/15/2016	30.81	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67,000	
MW-51S	04/21/2016	30.81	22.04	-	-	-	25.30	8.77	10:58	-	-	-	-	-	-	-	-	-	-	-	27,000	
MW-51S	05/23/2016	30.81	21.93	-	-	-	25.21	8.88	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/24/2016	30.81	21.77	-	-	-	25.28	9.04	10:08	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW-51S	06/21/2016	30.81	22.20	-	-	-	-	8.61	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/21/2016	30.81	21.27	-	-	-	-	9.54	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/24/2016	30.81	21.89	-	-	-	25.30	8.92	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/25/2016	30.81	21.60	-	-	-	25.45	9.21	11:05	-	-	-	-	-	-	-	-	-	-	-	15,000	
MW-51S	11/28/2016	30.81	22.23	-	-	-	25.25	8.58	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/29/2016	30.81	22.37	-	-	-	25.35	8.44	9:51	-	-	-	-	-	-	-	-	-	-	-	19,000	
MW-51S	02/21/2017	30.81	22.51	-	-	-	25.30	8.30	11:25	9	<0.5	12	3	-	-	-	-	1 J	-	-	68,000	
MW-51S	03/28/2017	30.81	23.00	-	-	-	25.38	7.81	15:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/29/2017	32.99	25.53	-	-	-	26.93	7.46	12:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/18/2017	32.99	26.83	-	-	-	26.92	6.16	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/22/2017	32.99	23.05	-	-	-	26.90	9.94	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/24/2017	32.99	21.37	-	-	-	26.92	11.62	9:12	-	-	-	-	-	-	-	-	-	-	-	36,000	
MW-51S	06/22/2017	32.99	26.82	-	-	-	27.67	6.17	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/19/2017	32.99	26.83	-	-	-	27.07	6.16	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/21/2017	32.99	22.67	-	-	-	27.22	10.32	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/28/2017	32.99	22.90	-	-	-	27.25	10.09	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/29/2017	32.99	22.91	-	-	-	-	10.08	11:40	-	-	-	-	-	-	-	-	<2.0	-	448	25,600	
MW-51S	09/20/2017	32.99	23.12	-	-	-	-	9.87	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/17/2017	32.99	23.47	-	-	-	-	9.52	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/28/2017	32.99	23.61	-	-	-	27.18	9.38	13:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/29/2017	32.99	23.68	-	-	-	27.15	9.31	11:59	-	-	-	-	-	-	-	-	-	-	15200	17,200	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-51S	01/18/2018	32.99	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	422	12,400	
MW-51S	01/18/2018	32.99	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,500	12,800	
MW-51S	01/18/2018	32.99	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,130	12,800	
MW-51S	01/26/2018	32.99	24.73	-	-	-	-	8.26	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/20/2018	32.99	23.33	-	-	-	27.17	9.66	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/22/2018	32.99	23.36	-	-	-	27.22	9.63	11:19	-	-	-	-	-	-	-	-	-	-	313	20,600	
MW-51S	03/06/2018	32.99	23.35	-	-	-	-	9.64	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/29/2018	32.99	23.32	-	-	-	-	9.67	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/11/2018	32.99	23.46	-	-	-	-	9.53	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/23/2018	32.99	23.42	-	-	-	-	9.57	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/03/2018	32.99	23.40	-	-	-	-	9.59	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/03/2018	31.00	21.63	-	-	-	-	9.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/21/2018	31.00	21.60	-	-	-	25.37	9.40	9:49	-	-	-	-	-	-	-	-	-	-	-	12,100	
MW-51S	05/24/2018	31.00	21.52	-	-	-	-	9.48	8:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	06/12/2018	31.00	21.42	-	-	-	-	9.58	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	06/26/2018	31.00	21.29	-	-	-	25.29	9.71	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/02/2018	31.00	21.37	-	-	-	-	9.63	10:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/17/2018	31.00	21.42	-	-	-	-	9.58	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/30/2018	31.00	20.41	-	-	-	-	10.59	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/09/2018	31.00	20.73	-	-	-	-	10.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/13/2018	31.00	20.78	-	-	-	25.40	10.22	12:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/15/2018	31.00	20.73	-	-	-	26.96	10.27	10:14	-	-	-	-	-	-	-	-	-	-	-	25,000	
MW-51S	09/04/2018	31.00	20.27	-	-	-	-	10.73	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/25/2018	31.00	20.46	-	-	-	-	10.54	13:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/02/2018	31.00	20.55	-	-	-	25.38	10.45	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/09/2018	31.00	20.66	-	-	-	25.35	10.34	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	10/25/2018	31.00	27.18	-	-	-	27.54	-	9:47	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW-51S	11/12/2018	32.98	22.28	-	-	-	-	10.70	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	11/13/2018	32.98	22.19	-	-	-	-	10.79	12:35	-	-	-	-	-	-	-	-	-	-	-	6,600	
MW-51S	11/27/2018	32.98	21.90	-	-	-	-	11.08	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/11/2018	32.98	22.46	-	-	-	-	10.52	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	12/27/2018	32.98	22.23	-	-	-	-	10.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	01/10/2019	32.98	22.44	-	-	-	-	10.54	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/25/2014	30.97	27.25	-	-	-	35.95	3.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/08/2014	30.97	27.00	27.00	TRACE	-	36.48	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	08/11/2014	30.97	26.70	-	-	-	-	4.27	-	-	-	-	-	-	-	-	-	-	-	-	1,180	
MW/RW-51	08/13/2014	30.97	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,650	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-51	08/15/2014	30.97	27.30	-	-	-	-	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/16/2014	30.97	26.99	26.99	TRACE	-	34.65	3.98	-	-	-	-	-	-	-	-	-	-	-	-	281,000	LNAPL NMB
MW/RW-51	08/18/2014	30.97	26.94	26.94	TRACE	-	-	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	08/25/2014	30.97	26.59	26.59	TRACE	-	-	4.38	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	09/02/2014	30.97	26.93	26.93	TRACE	-	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	09/15/2014	30.97	26.88	26.85	0.03	TRACE	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/22/2014	30.97	26.83	26.80	0.03	TRACE	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/24/2014	30.97	27.19	27.15	0.04	-	-	3.82	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/01/2014	30.97	26.93	26.93	TRACE	-	36.15	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/10/2014	30.97	26.84	26.81	0.03	-	-	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/13/2014	30.97	27.01	26.94	0.07	-	-	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/20/2014	30.97	27.05	27.03	0.02	TRACE	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	10/27/2014	30.97	27.16	27.12	0.04	TRACE	-	3.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/07/2014	30.97	27.11	27.07	0.04	TRACE	-	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/12/2014	30.97	26.92	26.90	0.02	TRACE	-	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/21/2014	30.97	27.57	27.50	0.07	TRACE	-	3.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/26/2014	30.97	27.20	27.17	0.03	TRACE	-	3.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/05/2014	30.97	26.98	26.96	0.02	TRACE	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/11/2014	30.97	26.88	26.87	0.01	TRACE	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/16/2014	30.97	26.83	26.80	0.03	TRACE	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/23/2014	30.97	26.83	26.83	TRACE	TRACE	-	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/30/2014	30.97	27.28	27.22	0.06	TRACE	-	3.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/09/2015	30.97	27.20	27.15	0.05	TRACE	-	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/16/2015	30.97	26.95	26.91	0.04	TRACE	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/19/2015	30.97	26.88	26.83	0.05	TRACE	-	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/26/2015	30.97	26.98	26.92	0.06	TRACE	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	02/03/2015	30.97	27.52	27.45	0.07	-	36.15	3.51	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	02/09/2015	30.97	26.93	26.91	0.02	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	02/18/2015	30.97	27.07	27.02	0.05	-	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	02/24/2015	30.97	27.07	27.06	0.01	TRACE	-	3.91	13:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	03/04/2015	30.97	27.24	27.17	0.07	-	-	3.79	14:25	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	03/11/2015	30.97	26.68	26.65	0.03	-	-	4.32	12:51	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	03/18/2015	30.97	26.94	26.84	0.10	-	-	4.12	11:11	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	03/26/2015	30.97	26.74	26.60	0.14	-	36.10	4.35	11:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	04/02/2015	30.97	27.78	27.75	0.03	-	36.05	3.22	11:46	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	04/08/2015	30.97	27.15	27.02	0.13	-	36.11	3.93	9:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	04/13/2015	30.97	27.09	26.98	0.11	-	-	3.98	10:47	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-51	04/23/2015	30.97	26.42	26.35	0.07	-	36.05	4.61	12:17	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	04/29/2015	30.97	26.71	26.60	0.11	-	36.00	4.36	14:39	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	05/04/2015	30.97	26.54	26.48	0.06	-	-	4.48	11:46	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	05/11/2015	30.97	26.44	26.40	0.04	-	-	4.57	15:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	05/13/2015	30.97	27.31	27.10	0.21	0.03	-	3.84	12:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/21/2015	30.97	26.74	26.71	0.03	-	-	4.26	12:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	05/28/2015	30.97	27.10	26.95	0.15	-	36.05	4.00	11:58	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	06/02/2015	30.97	26.85	26.82	0.03	-	-	4.15	13:07	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	06/09/2015	30.97	26.75	26.72	0.03	-	-	4.25	10:37	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	06/16/2015	30.97	26.57	26.54	0.03	-	-	4.43	11:30	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	06/26/2015	30.97	26.44	26.31	0.13	-	36.00	4.64	11:23	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	07/01/2015	30.97	25.86	25.85	0.01	-	-	5.12	12:30	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	07/08/2015	30.97	26.28	26.05	0.23	0.05	-	4.89	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/13/2015	30.97	26.03	25.90	0.13	-	-	5.05	9:46	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-51	07/20/2015	30.97	25.97	25.92	0.05	TRACE	-	5.04	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/28/2015	30.97	26.16	26.10	0.06	TRACE	36.18	4.86	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/04/2015	30.97	26.11	26.02	0.09	0.01	-	4.94	12:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/11/2015	30.97	25.78	25.70	0.08	0.01	36.14	5.26	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/18/2015	30.97	27.29	27.23	0.06	TRACE	-	3.73	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/24/2015	30.97	26.18	26.16	0.02	TRACE	-	4.81	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/02/2015	30.97	26.42	26.40	0.02	0.01	36.10	4.57	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/09/2015	30.97	26.35	26.27	0.08	0.02	36.12	4.69	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/17/2015	30.97	26.61	-	-	-	36.14	4.36	10:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/23/2015	30.97	26.49	26.47	0.02	TRACE	-	4.50	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/28/2015	30.97	26.00	26.00	TRACE	-	36.10	4.97	10:01	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	10/05/2015	30.97	26.67	-	-	-	36.15	4.30	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/10/2015	30.97	26.52	26.48	0.04	-	-	4.49	13:42	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	12/01/2015	30.97	26.57	26.55	0.02	-	-	4.42	13:53	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-51	01/27/2016	31.62	26.86	26.73	0.13	-	-	4.87	10:48	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	02/15/2016	31.62	27.22	27.14	0.08	-	-	4.47	10:23	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	03/14/2016	31.62	26.72	26.63	0.09	-	-	4.98	10:25	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	03/30/2016	31.62	33.60	-	-	-	-	-1.98	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	04/21/2016	31.62	33.00	-	-	-	-	-1.38	10:13	-	-	-	-	-	-	-	-	-	-	-	2,900	pump in well
MW/RW-51	05/23/2016	31.62	33.31	-	-	-	34.52	-1.69	11:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	05/24/2016	31.62	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	780	pump in well
MW/RW-51	06/21/2016	31.62	33.00	-	-	-	-	-1.38	11:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	07/21/2016	31.62	33.70	-	-	-	-	-2.08	11:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-51	08/24/2016	31.62	32.95	-	-	-	-	-1.33	11:03	-	-	-	-	-	-	-	-	-	-	-	350	pump in well
MW/RW-51	09/22/2016	31.62	33.35	-	-	-	-	-1.73	13:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	10/20/2016	31.62	32.92	-	-	-	-	-1.30	11:50	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	11/28/2016	31.62	30.64	-	-	-	-	0.98	9:19	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	110	pump in well
MW/RW-51	12/22/2016	31.62	31.35	-	-	-	-	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	01/30/2017	31.62	27.30	-	-	-	-	4.32	11:56	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	02/21/2017	31.62	33.80	-	-	-	-	-2.18	12:49	-	-	-	-	-	-	-	-	-	-	-	410	pump in well
MW/RW-51	03/29/2017	31.62	32.55	-	-	-	-	-0.93	12:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	04/18/2017	31.62	33.45	-	-	-	-	-1.83	12:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	05/18/2017	31.62	33.80	-	-	-	-	-2.18	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	05/22/2017	31.62	26.79	-	-	-	-	4.83	13:11	-	-	-	-	-	-	-	-	-	-	-	1,140	pump in well
MW/RW-51	06/22/2017	31.62	33.80	-	-	-	-	-2.18	12:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	07/06/2017	31.62	33.50	-	-	-	-	-1.88	13:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	07/19/2017	31.62	33.80	-	-	-	-	-2.18	12:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	08/21/2017	31.62	33.80	-	-	-	-	-2.18	9:12	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	08/28/2017	31.62	32.65	-	-	-	-	-1.03	9:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	08/31/2017	31.62	32.42	-	-	-	36.18	-0.80	9:31	-	-	-	-	-	-	-	-	-	-	-	2,500	pump in well
MW/RW-51	09/20/2017	31.62	33.80	-	-	-	-	-2.18	9:40	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	10/17/2017	31.62	33.80	-	-	-	-	-2.18	11:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	11/28/2017	31.62	33.76	-	-	-	34.20	-2.14	12:39	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	11/30/2017	31.62	NR	-	-	-	-	-	11:20	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	-	149	pump in well
MW/RW-51	01/26/2018	31.62	33.45	-	-	-	-	-1.83	12:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	02/20/2018	31.62	33.80	-	-	-	-	-2.18	10:45	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	02/21/2018	31.62	-	-	-	-	-	-	14:10	-	-	-	-	-	-	-	-	-	-	-	<83	pump in well
MW/RW-51	03/06/2018	31.62	27.30	-	-	-	-	4.32	12:15	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	03/29/2018	31.62	26.92	-	-	-	-	4.70	9:47	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	04/11/2018	31.62	27.57	-	-	-	-	4.05	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	04/23/2018	31.62	27.42	-	-	-	-	4.20	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/03/2018	31.62	27.28	-	-	-	-	4.34	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/21/2018	31.62	26.38	-	-	-	36.18	5.24	14:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/22/2018	31.62	26.32	-	-	-	36.10	5.30	10:03	-	-	-	-	-	-	-	-	-	-	-	19,500	
MW/RW-51	06/12/2018	31.62	26.27	-	-	-	-	5.35	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	06/26/2018	31.62	26.21	-	-	-	36.47	5.41	9:47	-	-	-	-	-	-	-	-	-	-	4,930 B	32,400	
MW/RW-51	07/02/2018	31.62	26.28	-	-	-	-	5.34	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/17/2018	31.62	26.51	-	-	-	-	5.11	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/30/2018	31.62	26.14	-	-	-	38.55	5.48	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/09/2018	31.62	26.02	-	-	-	-	5.60	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-51	08/13/2018	31.62	26.07	-	-	-	-	5.55	12:24	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	08/15/2018	31.62	31.12	-	-	-	-	0.50	10:00	-	-	-	-	-	-	-	-	-	-	-	460	pump in well
MW/RW-51	09/04/2018	31.62	26.12	-	-	-	-	5.50	9:46	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	09/25/2018	31.62	25.33	-	-	-	-	6.29	13:29	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	10/02/2018	31.62	25.57	-	-	-	-	6.05	11:48	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-51	10/24/2018	31.62	26.44	-	-	-	-	5.18	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	11/12/2018	32.87	27.10	-	-	-	-	5.77	13:06	-	-	-	-	-		-	-	-	-	-	-	
MW/RW-51	11/13/2018	32.87	26.85	-	-	-	-	6.02	10:10	2	<0.2	2	0.9 J	-	-	-	-	11	-	-	28,000	
MW/RW-51	11/27/2018	32.87	26.47	-	-	-	-	6.40	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/11/2018	32.87	27.02	-	-	-	-	5.85	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	12/27/2018	32.87	27.09	-	-	-	-	5.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	01/10/2019	32.87	27.76	-	-	-	-	5.11	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/15/2014	30.17	28.11	-	-	-	35.78	2.06	-	-	-	-	-	-	-	-	-	-	-	-	<600	
MW-52	08/18/2014	30.17	26.07	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/25/2014	30.17	25.76	-	-	-	-	4.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	09/02/2014	30.17	26.15	-	-	-	-	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	09/15/2014	30.17	25.99	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	09/22/2014	30.17	26.00	-	-	-	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/01/2014	30.17	26.03	-	-	-	35.65	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/10/2014	30.17	26.07	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/20/2014	30.17	26.24	-	-	-	35.64	3.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	10/22/2014	30.17	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	
MW-52	05/11/2015	30.17	25.81	-	-	-	35.65	4.36	14:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/12/2015	30.17	26.10	-	-	-	-	4.07	9:50	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-52	08/04/2015	30.17	25.21	-	-	-	35.55	4.96	12:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/05/2015	30.17	25.68	-	-	-	35.49	4.49	9:47	-	-	-	-	-	-	-	-	-	-	-	110	
MW-52	12/01/2015	30.17	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Manhole flooded
MW-52	03/14/2016	30.17	26.61	-	-	-	35.30	3.56	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/23/2016	30.17	26.29	-	-	-	35.22	3.88	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/24/2016	30.17	26.38	-	-	-	35.30	3.79	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	11/28/2016	30.17	26.62	-	-	-	35.24	3.55	8:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	02/21/2017	30.17	26.78	-	-	-	35.27	3.39	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/22/2017	30.17	24.98	-	-	-	-	5.19	13:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/28/2017	30.17	30.97	-	-	-	35.04	-0.80	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	11/28/2017	30.17	28.97	-	-	-	35.03	1.20	12:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	02/20/2018	30.17	27.05	-	-	-	35.69	3.12	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	05/21/2018	30.17	25.39	-	-	-	35.15	4.78	14:09	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-52	08/13/2018	30.17	25.06	-	-	-	35.73	5.11	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	11/12/2018	30.17	25.01	-	-	-	35.03	5.16	12:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/15/2014	30.86	26.63	-	-	-	34.95	4.23	-	-	-	-	-	-	-	-	-	-	-	-	<153	
MW-70	08/18/2014	30.86	26.61	-	-	-	-	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/25/2014	30.86	26.25	-	-	-	-	4.61	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	09/02/2014	30.86	26.68	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	09/15/2014	30.86	26.63	-	-	-	-	4.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	09/22/2014	30.86	26.47	-	-	-	-	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	10/01/2014	30.86	26.66	-	-	-	34.88	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	10/10/2014	30.86	26.57	-	-	-	-	4.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	10/20/2014	30.86	26.79	-	-	-	34.90	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	10/21/2014	30.86	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-70	02/24/2015	30.86	26.62	-	-	-	-	4.24	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	02/26/2015	30.86	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,200	
MW-70	05/11/2015	30.86	26.02	-	-	-	35.15	4.84	14:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/12/2015	30.86	26.21	-	-	-	-	4.65	14:05	-	-	-	-	-	-	-	-	-	-	-	100	
MW-70	08/04/2015	30.86	25.73	-	-	-	35.16	5.13	12:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/05/2015	30.86	26.10	-	-	-	35.05	4.76	9:55	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-70	12/01/2015	30.86	26.23	-	-	-	35.05	4.63	13:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	03/14/2016	30.86	26.45	-	-	-	35.11	4.41	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/23/2016	30.86	26.71	-	-	-	35.05	4.15	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/24/2016	30.86	26.64	-	-	-	35.05	4.22	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	11/28/2016	30.86	26.91	-	-	-	35.04	3.95	8:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	02/21/2017	30.86	27.08	-	-	-	35.13	3.78	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/22/2017	30.86	25.92	-	-	-	33.05	4.94	12:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/28/2017	30.86	32.22	-	-	-	35.05	-1.36	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	11/28/2017	30.86	29.64	-	-	-	35.09	1.22	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	02/20/2018	30.86	27.01	-	-	-	35.78	3.85	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/21/2018	30.86	25.25	-	-	-	35.19	5.61	13:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/13/2018	30.86	25.11	-	-	-	35.91	5.75	12:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	11/12/2018	30.86	25.08	-	-	-	35.12	5.78	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/08/2014	30.63	23.33	-	-	-	25.30	7.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/11/2014	30.63	22.85	-	-	-	-	7.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/15/2014	30.63	21.35	-	-	-	23.90	9.28	-	-	-	-	-	-	-	-	-	-	-	-	5,980	
MW/RW-72S	08/18/2014	30.63	21.34	-	-	-	-	9.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/25/2014	30.63	21.41	-	-	-	-	9.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	09/02/2014	30.63	21.45	-	-	-	-	9.18	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-72S	09/15/2014	30.63	21.54	-	-	-	-	9.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	09/22/2014	30.63	21.56	-	-	-	-	9.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	10/01/2014	30.63	21.63	-	-	-	23.90	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	10/10/2014	30.63	21.69	-	-	-	-	8.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	10/20/2014	30.63	21.73	-	-	-	23.88	8.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	10/22/2014	30.63	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,300	
MW/RW-72S	10/27/2014	30.63	21.80	-	-	-	-	8.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/07/2014	30.63	21.83	-	-	-	-	8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/12/2014	30.63	21.88	-	-	-	-	8.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/21/2014	30.63	22.04	-	-	-	-	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/26/2014	30.63	22.10	-	-	-	-	8.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/05/2014	30.63	22.23	-	-	-	-	8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/11/2014	30.63	22.11	-	-	-	-	8.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/16/2014	30.63	22.00	-	-	-	-	8.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/23/2014	30.63	21.99	-	-	-	-	8.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/30/2014	30.63	21.98	-	-	-	-	8.65	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/09/2015	30.63	21.94	-	-	-	-	8.69	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/16/2015	30.63	21.93	-	-	-	-	8.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/19/2015	30.63	21.88	-	-	-	-	8.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	01/26/2015	30.63	21.78	-	-	-	-	8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/03/2015	30.63	21.79	-	-	-	23.93	8.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/09/2015	30.63	21.77	-	-	-	-	8.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/18/2015	30.63	21.85	-	-	-	-	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/24/2015	30.63	21.90	-	-	-	23.89	8.73	15:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/25/2015	30.63	21.87	-	-	-	23.75	8.76	14:10	-	-	-	-	-	-	-	-	-	-	-	3,400	
MW/RW-72S	03/04/2015	30.63	21.79	-	-	-	-	8.84	13:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	03/11/2015	30.63	21.75	-	-	-	-	8.88	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	03/18/2015	30.63	21.70	-	-	-	-	8.93	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	03/26/2015	30.63	21.73	-	-	-	23.90	8.90	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/02/2015	30.63	21.78	-	-	-	23.90	8.85	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/08/2015	30.63	21.82	-	-	-	23.87	8.81	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/13/2015	30.63	21.86	-	-	-	-	8.77	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/23/2015	30.63	21.86	-	-	-	23.87	8.77	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	04/29/2015	30.63	21.85	-	-	-	23.85	8.78	13:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/04/2015	30.63	21.84	-	-	-	-	8.79	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/11/2015	30.63	21.91	-	-	-	23.90	8.72	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/13/2015	30.63	21.90	-	-	-	-	8.73	9:57	13	<0.5	24	<0.5	<0.5	<2	<0.5	<0.5	16.00	-	-	4,000	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-72S	05/21/2015	30.63	21.88	-	-	-	23.90	8.75	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/28/2015	30.63	22.04	-	-	-	23.90	8.59	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	06/02/2015	30.63	22.03	-	-	-	-	8.60	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	06/09/2015	30.63	21.67	-	-	-	-	8.96	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	06/16/2015	30.63	21.68	-	-	-	-	8.95	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	06/26/2015	30.63	21.55	-	-	-	23.80	9.08	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	07/01/2015	30.63	21.38	-	-	-	-	9.25	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/04/2015	30.63	21.55	-	-	-	23.90	9.08	12:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/05/2015	30.63	21.51	-	-	-	23.90	9.12	9:25	-	-	-	-	-	-	-	-	-	-	-	3,700	
MW/RW-72S	12/01/2015	30.63	24.65	-	-	-	26.17	5.98	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	12/03/2015	30.63	NR	-	-	-	-	-	-	8	<0.5	15	<0.5	-	-	-	-	2.00 J	-	-	2,100	
MW/RW-72S	03/14/2016	30.63	23.71	-	-	-	26.02	6.92	12:25	-	-	-	-	-	-	-	-	-	-	-	8,200	
MW/RW-72S	05/23/2016	30.63	25.75	-	-	-	-	4.88	11:43	-	-	-	-	-	-	-	-	-	-	-	-	Obstruction during gauging
MW/RW-72S	05/25/2016	30.63	24.22	-	-	-	25.85	6.41	-	-	-	-	-	-	-	-	-	-	-	-	3,800	
MW/RW-72S	06/21/2016	30.63	26.04	-	-	-	-	4.59	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	07/21/2016	30.63	26.02	-	-	-	-	4.61	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/24/2016	30.63	25.60	-	-	-	26.15	5.03	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/25/2016	30.63	23.95	-	-	-	-	6.68	13:00	-	-	-	-	-	-	-	-	-	-	-	5,300	
MW/RW-72S	09/22/2016	30.63	26.07	-	-	-	26.13	4.56	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	10/20/2016	30.63	26.02	-	-	-	-	4.61	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/28/2016	30.63	DRY	-	-	-	25.79	-	9:59	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW/RW-72S	11/29/2016	30.63	26.04	-	-	-	26.10	4.59	13:30	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	12/07/2016	30.63	26.07	-	-	-	26.13	4.56	12:26	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	12/22/2016	30.63	DRY	-	-	-	26.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW/RW-72S	01/30/2017	30.63	26.06	-	-	-	26.23	4.57	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/21/2017	30.63	26.01	-	-	-	26.19	4.62	10:22	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	02/22/2017	30.63	26.03	-	-	-	26.19	4.60	-	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW/RW-72S	03/29/2017	30.63	22.90	-	-	-	23.83	7.73	12:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/22/2017	30.63	21.23	-	-	-	21.23	9.40	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/23/2017	30.63	21.30	-	-	-	23.90	9.33	13:00	-	-	-	-	-	-	-	-	-	-	-	55,500	
MW/RW-72S	08/28/2017	30.63	21.29	-	-	-	23.98	9.34	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/30/2017	30.63	21.22	-	-	-	23.93	9.41	12:53	-	-	-	-	-	-	-	-	<0.66	-	4,870	15,800	
MW/RW-72S	11/28/2017	30.63	21.57	-	-	-	23.91	9.06	14:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/30/2017	30.63	21.69	-	-	-	23.92	8.94	9:25	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	8,070	9,100	
MW/RW-72S	02/20/2018	30.63	21.22	-	-	-	23.92	9.41	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/21/2018	30.63	21.25	-	-	-	23.83	9.38	9:35	-	-	-	-	-	-	-	-	-	-	6,050	26,900	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-72S	05/21/2018	30.63	20.45	-	-	-	23.94	10.18	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/24/2018	30.63	20.72	-	-	-	23.96	9.91	8:21	-	-	-	-	-	-	-	-	-	-	-	13,700	
MW/RW-72S	08/13/2018	30.63	20.76	-	-	-	23.89	9.87	11:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/14/2018	30.63	20.73	-	-	-	23.97	9.90	10:10	-	-	-	-	-	-	-	-	-	-	-	4,500	
MW/RW-72S	11/12/2018	30.63	20.60	-	-	-	23.90	10.03	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	11/14/2018	30.63	20.46	-	-	-	23.90	10.17	9:51	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	3,500	
MW/RW-72	08/08/2014	31.06	26.97	-	-	-	34.55	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/11/2014	31.06	26.85	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	<300	
MW/RW-72	08/13/2014	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,100	
MW/RW-72	08/15/2014	31.06	27.43	-	-	-	-	3.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/16/2014	31.06	27.05	-	-	-	34.43	4.01	-	-	-	-	-	-	-	-	-	-	-	-	1,340	
MW/RW-72	08/18/2014	31.06	27.00	-	-	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/25/2014	31.06	26.66	-	-	-	-	4.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	09/02/2014	31.06	27.11	-	-	-	-	3.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	09/15/2014	31.06	27.02	-	-	-	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	09/22/2014	31.06	26.88	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	10/01/2014	31.06	27.10	-	-	-	34.48	3.96	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	10/10/2014	31.06	26.94	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	10/20/2014	31.06	27.19	-	-	-	34.43	3.87	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	10/22/2014	31.06	NR	-	-	-	-	-	-	41	<0.5	1	66	0.6	2	<0.5	<0.5	61	480	-	2,000	
MW/RW-72	10/27/2014	31.06	27.34	-	-	-	-	3.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/07/2014	31.06	27.04	-	-	-	-	4.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/12/2014	31.06	27.12	-	-	-	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/21/2014	31.06	27.82	-	-	-	-	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/26/2014	31.06	27.36	-	-	-	-	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	12/05/2014	31.06	27.01	-	-	-	-	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	12/11/2014	31.06	27.03	-	-	-	-	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	12/16/2014	31.06	26.91	-	-	-	-	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	12/23/2014	31.06	26.89	-	-	-	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	12/30/2014	31.06	27.36	-	-	-	-	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	01/09/2015	31.06	27.27	-	-	-	-	3.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	01/16/2015	31.06	27.03	-	-	-	-	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	01/19/2015	31.06	26.98	-	-	-	-	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	01/26/2015	31.06	26.96	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/03/2015	31.06	27.65	-	-	-	34.19	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/09/2015	31.06	27.14	-	-	-	-	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/18/2015	31.06	27.11	-	-	-	-	3.95	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-72	02/24/2015	31.06	27.27	-	-	-	-	3.79	13:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/25/2015	31.06	27.33	-	-	-	34.28	3.73	9:50	8	<0.5	<0.5	3	<0.5	<2	<0.5	<0.5	<0.03	65	-	590	
MW/RW-72	03/04/2015	31.06	27.17	-	-	-	-	3.89	13:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	03/11/2015	31.06	26.98	-	-	-	-	4.08	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	03/18/2015	31.06	26.94	-	-	-	-	4.12	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	03/26/2015	31.06	26.78	-	-	-	34.10	4.28	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	04/02/2015	31.06	26.86	-	-	-	34.15	4.20	10:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	04/08/2015	31.06	27.20	-	-	-	33.98	3.86	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	04/13/2015	31.06	27.11	-	-	-	-	3.95	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	04/23/2015	31.06	26.61	-	-	-	34.13	4.45	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	04/29/2015	31.06	26.76	-	-	-	33.95	4.30	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/04/2015	31.06	26.60	-	-	-	-	4.46	11:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/11/2015	31.06	26.55	-	-	-	33.90	4.51	14:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/13/2015	31.06	27.12	-	-	-	-	3.94	9:55	13	<0.5	<0.5	6	<0.5	<2	<0.5	<0.5	13.00	120	-	630	
MW/RW-72	05/21/2015	31.06	26.81	-	-	-	34.04	4.25	11:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/28/2015	31.06	27.05	-	-	-	34.00	4.01	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	06/02/2015	31.06	26.68	-	-	-	-	4.38	12:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	06/09/2015	31.06	26.46	-	-	-	-	4.60	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	06/16/2015	31.06	26.48	-	-	-	-	4.58	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	06/26/2015	31.06	26.42	-	-	-	34.00	4.64	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	07/01/2015	31.06	25.91	-	-	-	-	5.15	11:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/04/2015	31.06	26.19	-	-	-	34.14	4.87	12:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/05/2015	31.06	26.61	-	-	-	34.26	4.45	9:22	-	-	-	-	-	-	-	-	-	-	-	3,900	
MW/RW-72	12/01/2015	31.06	26.68	-	-	-	-	4.38	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	12/03/2015	31.06	NR	-	-	-	-	-	-	20	<0.5	29	100	-	-	-	-	26	-	-	960	
MW/RW-72	03/14/2016	31.06	26.87	-	-	-	-	4.19	9:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-72	03/15/2016	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200	pump in well
MW/RW-72	03/30/2016	31.06	31.47	-	-	-	-	-0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-72	04/21/2016	31.06	31.45	-	-	-	-	-0.39	10:22	-	-	-	-	-	-	-	-	-	-	-	350	pump in well
MW/RW-72	05/23/2016	31.06	31.50	-	-	-	-	-0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-72	05/24/2016	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360	pump in well
MW/RW-72	06/21/2016	31.06	31.50	-	-	-	-	-0.44	10:21	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-72	07/21/2016	31.06	31.51	-	-	-	-	-0.45	10:01	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-72	08/04/2016	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Uninstalled pump to use in MW-14 due to increasing LNAPL levels in MW-14

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-72	08/24/2016	31.06	27.21	-	-	-	33.00	3.85	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/25/2016	31.06	27.42	-	-	-	33.18	3.64	11:06	-	-	-	-	-	-	-	-	-	-	-	330	
MW/RW-72	09/22/2016	31.06	26.54	-	-	-	-	4.52	14:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/28/2016	31.06	26.36	-	-	-	33.69	4.70	8:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/29/2016	31.06	26.72	-	-	-	33.07	4.34	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	160	
MW/RW-72	02/21/2017	31.06	27.88	-	-	-	33.03	3.18	12:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/22/2017	31.06	27.65	-	-	-	33.03	3.41	12:50	-	-	-	-	-	-	-	-	-	-	-	150	
MW/RW-72	05/22/2017	31.03	26.79	-	-	-	33.10	4.24	13:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/23/2017	31.03	26.83	-	-	-	33.15	4.20	13:30	-	-	-	-	-	-	-	-	-	-	-	2,410	
MW/RW-72	08/28/2017	31.03	32.62	-	-	-	33.02	-1.59	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/30/2017	31.03	32.51	-	-	-	33.10	-1.48	12:56	-	-	-	-	-	-	-	-	-	-	-	2,080	
MW/RW-72	11/28/2017	31.03	30.61	-	-	-	35.23	0.42	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/29/2017	31.03	30.42	-	-	-	33.08	0.61	11:16	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	-	642	
MW/RW-72	02/20/2018	31.03	28.94	-	-	-	35.36	2.09	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/21/2018	31.03	29.49	-	-	-	33.10	1.54	9:40	-	-	-	-	-	-	-	-	-	-	-	537	
MW/RW-72	05/21/2018	31.03	28.78	-	-	-	33.28	2.25	14:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/24/2018	31.03	26.22	-	-	-	33.10	4.81	8:18	-	-	-	-	-	-	-	-	-	-	-	4,430	
MW/RW-72	08/13/2018	31.03	26.06	-	-	-	33.06	4.97	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/14/2018	31.03	26.22	-	-	-	33.10	4.81	10:07	-	-	-	-	-	-	-	-	-	-	-	3,100	
MW/RW-72	11/12/2018	31.03	25.93	-	-	-	33.18	5.10	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	11/14/2018	31.03	26.30	-	-	-	33.18	4.73	9:54	0.3 J	<0.2	0.7 J	8	-	-	-	-	12	-	-	2,600	
MW-100S	08/15/2014	31.06	21.32	-	-	-	24.22	9.74	-	-	-	-	-	-	-	-	-	-	-	-	<300	
MW-100S	08/18/2014	31.06	21.28	-	-	-	-	9.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/25/2014	31.06	21.31	-	-	-	-	9.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	09/02/2014	31.06	21.39	-	-	-	-	9.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	09/15/2014	31.06	21.39	-	-	-	-	9.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	09/22/2014	31.06	21.52	-	-	-	-	9.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/01/2014	31.06	21.62	-	-	-	24.16	9.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/10/2014	31.06	21.61	-	-	-	-	9.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/20/2014	31.06	21.67	-	-	-	24.17	9.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	10/21/2014	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-100S	02/24/2015	31.06	21.75	-	-	-	24.18	9.31	15:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	02/26/2015	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	690	
MW-100S	05/11/2015	31.06	21.55	-	-	-	24.20	9.51	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	05/12/2015	31.06	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-100S	08/04/2015	31.06	20.66	-	-	-	24.15	10.40	12:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/05/2015	31.06	20.70	-	-	-	24.15	10.36	10:03	-	-	-	-	-	-	-	-	-	-	-	<45	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-100S	12/01/2015	31.06	21.57	-	-	-	24.16	9.49	11:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	03/14/2016	31.06	21.41	-	-	-	24.20	9.65	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	05/23/2016	31.06	21.33	-	-	-	24.31	9.73	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/24/2016	31.06	21.11	-	-	-	24.24	9.95	11:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	11/28/2016	31.06	21.73	-	-	-	24.16	9.33	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	11/29/2016	31.06	21.72	-	-	-	24.15	9.34	9:30	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-100S	02/21/2017	31.06	21.68	-	-	-	24.17	9.38	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	05/22/2017	31.03	21.06	-	-	-	24.21	9.97	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/28/2017	31.03	20.57	-	-	-	24.12	10.46	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/30/2017	31.03	20.70	-	-	-	24.20	10.33	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	11/28/2017	31.03	21.42	-	-	-	24.72	9.61	12:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	11/30/2017	31.03	21.45	-	-	-	24.22	9.58	9:30	-	-	-	-	-	-	-	-	-	-	-	192	
MW-100S	02/20/2018	31.03	21.21	-	-	-	24.18	9.82	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	05/21/2018	31.03	20.97	-	-	-	24.20	10.06	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	05/22/2018	31.03	20.98	-	-	-	24.20	10.05	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/13/2018	31.03	DRY	-	-	-	24.81	-	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	11/12/2018	31.03	20.10	-	-	-	24.15	10.93	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	11/14/2018	31.03	19.71	-	-	-	24.18	11.32	9:55	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-100	08/15/2014	30.78	26.80	-	-	-	36.90	3.98	-	-	-	-	-	-	-	-	-	-	-	-	<152	
MW-100	08/18/2014	30.78	26.66	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/25/2014	30.78	26.26	-	-	-	-	4.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	09/02/2014	30.78	26.70	-	-	-	-	4.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	09/15/2014	30.78	26.65	-	-	-	-	4.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	09/22/2014	30.78	26.48	-	-	-	-	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	10/01/2014	30.78	26.69	-	-	-	36.68	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	10/10/2014	30.78	26.60	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	10/20/2014	30.78	26.86	-	-	-	36.58	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	10/21/2014	30.78	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	
MW-100	02/24/2015	30.78	26.88	-	-	-	36.61	3.90	13:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	02/25/2015	30.78	26.87	-	-	-	36.62	3.91	11:32	-	-	-	-	-	-	-	-	-	-	-	300	
MW-100	05/11/2015	30.78	26.17	-	-	-	36.60	4.61	14:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	05/12/2015	30.78	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-100	08/04/2015	30.78	25.80	-	-	-	36.80	4.98	12:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/05/2015	30.78	26.22	-	-	-	36.61	4.56	9:59	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-100	12/01/2015	30.78	26.25	-	-	-	36.35	4.53	13:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	03/14/2016	30.78	26.54	-	-	-	36.46	4.24	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	05/23/2016	30.78	26.74	-	-	-	36.69	4.04	10:28	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-100	08/24/2016	30.78	26.72	-	-	-	36.42	4.06	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	11/28/2016	30.78	26.87	-	-	-	27.44	3.91	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	11/29/2016	30.78	26.66	-	-	-	36.39	4.12	9:35	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-100	02/21/2017	30.78	27.35	-	-	-	36.30	3.43	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	05/22/2017	30.78	26.34	-	-	-	36.40	4.44	12:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/28/2017	30.78	33.02	-	-	-	36.23	-2.24	9:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/30/2017	30.78	32.94	-	-	-	36.28	-2.16	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	11/28/2017	30.78	29.98	-	-	-	36.28	0.80	12:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	11/30/2017	30.78	29.99	-	-	-	36.25	0.79	9:34	-	-	-	-	-	-	-	-	-	-	-	98.5	
MW-100	02/20/2018	30.78	27.79	-	-	-	37.12	2.99	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	05/21/2018	30.78	26.25	-	-	-	36.20	4.53	13:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/13/2018	30.78	25.91	-	-	-	37.19	4.87	12:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	11/12/2018	30.78	25.70	-	-	-	36.23	5.08	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	11/14/2018	30.78	26.39	-	-	-	36.25	4.39	10:05	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-102	08/15/2014	29.72	29.91	-	-	-	36.64	-0.19	-	-	-	-	-	-	-	-	-	-	-	-	<1,500	
MW-102	08/18/2014	29.72	29.81	-	-	-	-	-0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/25/2014	29.72	28.40	-	-	-	-	1.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	09/02/2014	29.72	27.23	-	-	-	-	2.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	09/15/2014	29.72	24.97	-	-	-	-	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	09/22/2014	29.72	24.83	-	-	-	-	4.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	10/01/2014	29.72	24.73	-	-	-	36.45	4.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	10/10/2014	29.72	24.66	-	-	-	-	5.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	10/20/2014	29.72	24.78	-	-	-	36.44	4.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	10/21/2014	29.72	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-102	05/11/2015	29.72	24.44	-	-	-	36.40	5.28	15:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	05/12/2015	29.72	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-102	08/04/2015	29.72	23.39	-	-	-	36.43	6.33	12:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/05/2015	29.72	23.50	-	-	-	36.42	6.22	10:14	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-102	12/01/2015	29.72	22.61	-	-	-	31.80	7.11	13:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	03/14/2016	29.72	24.11	-	-	-	36.41	5.61	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	05/23/2016	29.72	23.33	-	-	-	36.40	6.39	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/24/2016	29.72	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	VO
MW-102	11/28/2016	29.72	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	VO
MW-102	02/21/2017	29.72	25.22	-	-	-	36.43	4.50	11:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	05/22/2017	29.72	23.65	-	-	-	36.46	6.07	13:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/28/2017	29.72	27.11	-	-	-	36.40	2.61	11:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/30/2017	29.72	27.20	-	-	-	36.48	2.52	10:28	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-102	11/28/2017	29.72	26.29	-	-	-	36.42	3.43	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	02/20/2018	29.72	25.01	-	-	-	37.08	4.71	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	05/21/2018	29.72	21.20	-	-	-	25.89	8.52	13:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/13/2018	29.72	22.51	-	-	-	36.99	7.21	12:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	11/12/2018	29.72	22.88	-	-	-	36.43	6.84	12:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	07/24/2014	11.07	7.87	-	-	-	-	3.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/08/2014	11.07	4.61	-	-	-	15.06	6.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/11/2014	11.07	4.63	-	-	-	-	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/15/2014	11.07	4.26	-	-	-	14.95	6.81	-	-	-	-	-	-	-	-	-	-	-	-	479	
MW-103	08/18/2014	11.07	4.48	-	-	-	-	6.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/25/2014	11.07	4.45	-	-	-	-	6.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	09/02/2014	11.07	4.50	-	-	-	-	6.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	09/15/2014	11.07	4.63	-	-	-	-	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	09/22/2014	11.07	4.76	-	-	-	-	6.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	10/01/2014	11.07	4.85	-	-	-	14.88	6.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	10/10/2014	11.07	4.93	-	-	-	-	6.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	10/20/2014	11.07	4.70	-	-	-	14.88	6.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	10/21/2014	11.07	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.02	26	-	54	
MW-103	02/24/2015	11.07	5.02	-	-	-	-	6.05	15:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	02/26/2015	11.07	5.21	-	-	-	14.90	5.86	11:53	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	<20	-	<45	
MW-103	05/11/2015	11.07	4.67	-	-	-	14.88	6.40	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	05/12/2015	11.07	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	22 J	-	<45	
MW-103	08/04/2015	11.07	3.69	-	-	-	14.88	7.38	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/05/2015	11.07	3.71	-	-	-	14.87	7.36	10:20	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-103	12/01/2015	11.07	9.70	-	-	-	-	1.37	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	03/14/2016	11.07	4.15	-	-	-	14.89	6.92	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	05/23/2016	11.07	4.01	-	-	-	14.80	7.06	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/24/2016	11.07	4.26	-	-	-	14.98	6.81	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	11/28/2016	11.07	5.15	-	-	-	15.05	5.92	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	02/21/2017	11.07	5.34	-	-	-	14.89	5.73	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	05/22/2017	11.07	4.26	-	-	-	14.90	6.81	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/28/2017	11.07	3.90	-	-	-	14.90	7.17	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/30/2017	11.07	3.93	-	-	-	14.92	7.14	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	11/28/2017	11.07	4.50	-	-	-	14.91	6.57	13:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	02/20/2018	11.07	3.99	-	-	-	-	7.08	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	05/21/2018	11.07	2.97	-	-	-	-	8.10	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/13/2018	11.07	3.01	-	-	-	15.10	8.06	10:42	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-103	11/12/2018	11.07	3.41	-	-	-	14.88	7.66	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	07/24/2014	12.00	5.24	-	-	-	-	6.76	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/08/2014	12.00	4.28	-	-	-	12.05	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/11/2014	12.00	4.40	-	-	-	-	7.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/15/2014	12.00	3.95	-	-	-	12.20	8.05	-	-	-	-	-	-	-	-	-	-	-	-	1,630	
MW-104	08/18/2014	12.00	4.22	-	-	-	-	7.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/25/2014	12.00	4.29	-	-	-	-	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	09/02/2014	12.00	4.38	-	-	-	-	7.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	09/15/2014	12.00	4.52	-	-	-	-	7.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	09/22/2014	12.00	4.73	-	-	-	-	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	10/01/2014	12.00	4.73	-	-	-	11.98	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	10/10/2014	12.00	4.77	-	-	-	-	7.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	10/20/2014	12.00	3.98	-	-	-	12.07	8.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	10/21/2014	12.00	NR	-	-	-	-	-	-	<0.5	<0.5	0.7	2	<0.5	<2	<0.5	<0.5	1	59	-	150	
MW-104	02/24/2015	12.00	5.43	-	-	-	-	6.57	15:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	02/26/2015	12.00	5.70	-	-	-	12.00	6.30	12:07	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	<20	-	<45	
MW-104	05/11/2015	12.00	4.51	-	-	-	12.10	7.49	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	05/12/2015	12.00	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	-	<45	
MW-104	08/04/2015	12.00	3.82	-	-	-	12.00	8.18	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/05/2015	12.00	3.85	-	-	-	12.50	8.15	10:23	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-104	12/01/2015	12.00	4.29	-	-	-	12.05	7.71	11:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	03/14/2016	12.00	3.80	-	-	-	11.99	8.20	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	05/23/2016	12.00	3.72	-	-	-	12.00	8.28	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/24/2016	12.00	4.17	-	-	-	12.12	7.83	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	11/28/2016	12.00	5.13	-	-	-	12.15	6.87	11:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	02/21/2017	12.00	5.07	-	-	-	12.05	6.93	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	05/22/2017	12.00	4.21	-	-	-	12.08	7.79	11:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/28/2017	12.00	4.52	-	-	-	12.00	7.48	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/30/2017	12.00	3.53	-	-	-	12.08	8.47	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	11/28/2017	12.00	4.70	-	-	-	12.06	7.30	13:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	02/20/2018	12.00	3.79	-	-	-	12.02	8.21	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	05/21/2018	12.00	3.03	-	-	-	-	8.97	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/13/2018	12.00	2.75	-	-	-	-	9.25	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	11/12/2018	12.00	7.51	-	-	-	11.90	4.49	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	07/24/2014	10.94	2.34	-	-	-	-	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/08/2014	10.94	2.15	-	-	-	10.06	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/11/2014	10.94	2.39	-	-	-	-	8.55	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-105	08/15/2014	10.94	1.67	-	-	-	9.95	9.27	-	-	-	-	-	-	-	-	-	-	-	-	<1,500	
MW-105	08/18/2014	10.94	2.06	-	-	-	-	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/25/2014	10.94	2.25	-	-	-	-	8.69	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	09/02/2014	10.94	2.24	-	-	-	-	8.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	09/15/2014	10.94	2.32	-	-	-	-	8.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	09/22/2014	10.94	2.71	-	-	-	-	8.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	10/01/2014	10.94	2.57	-	-	-	9.88	8.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	10/10/2014	10.94	2.70	-	-	-	-	8.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	10/20/2014	10.94	1.70	-	-	-	9.93	9.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	10/21/2014	10.94	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.06	<20	-	<45	
MW-105	05/11/2015	10.94	2.40	-	-	-	9.70	8.54	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	05/12/2015	10.94	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	-	<45	
MW-105	08/04/2015	10.94	1.65	-	-	-	9.62	9.29	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/05/2015	10.94	1.67	-	-	-	9.60	9.27	10:26	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-105	12/01/2015	10.94	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Manhole flooded
MW-105	03/14/2016	10.94	0.30	-	-	-	9.24	10.64	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	05/23/2016	10.94	0.91	-	-	-	9.50	10.03	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/24/2016	10.94	1.70	-	-	-	9.22	9.24	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	11/28/2016	10.94	3.00	-	-	-	9.19	7.94	11:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	02/21/2017	10.94	3.11	-	-	-	9.16	7.83	10:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	05/22/2017	10.94	0.10	-	-	-	9.20	10.84	11:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/28/2017	10.94	1.32	-	-	-	9.14	9.62	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/30/2017	10.94	0.95	-	-	-	9.03	9.99	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	11/28/2017	10.94	2.45	-	-	-	9.09	8.49	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	02/20/2018	10.94	1.46	-	-	-	8.94	9.48	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	05/21/2018	10.94	0.70	-	-	-	-	10.24	11:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/13/2018	10.94	0.33	-	-	-	9.09	10.61	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	11/12/2018	10.94	0.28	-	-	-	-	10.66	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/08/2014	11.12	8.30	-	-	-	10.27	2.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/11/2014	11.12	8.27	-	-	-	-	2.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/15/2014	11.12	7.63	-	-	-	9.88	3.49	-	-	-	-	-	-	-	-	-	-	-	-	89,200	
MW-106	08/18/2014	11.12	7.58	-	-	-	-	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/25/2014	11.12	7.52	-	-	-	-	3.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	09/02/2014	11.12	7.79	-	-	-	-	3.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	09/15/2014	11.12	7.90	-	-	-	-	3.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	09/22/2014	11.12	7.87	-	-	-	-	3.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	10/01/2014	11.12	7.93	-	-	-	9.88	3.19	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-106	10/10/2014	11.12	7.71	-	-	-	-	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	10/13/2014	11.12	7.92	-	-	-	-	3.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	10/20/2014	11.12	7.86	-	-	-	9.88	3.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	10/22/2014	11.12	NR	-	-	-	-	-	-	<0.5	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	23	230	-	2,000	
MW-106	10/27/2014	11.12	7.77	-	-	-	-	3.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/07/2014	11.12	7.83	-	-	-	-	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/12/2014	11.12	7.88	-	-	-	-	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/21/2014	11.12	8.23	-	-	-	-	2.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/26/2014	11.12	8.03	-	-	-	-	3.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/05/2014	11.12	7.21	-	-	-	-	3.91	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/11/2014	11.12	6.95	-	-	-	-	4.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/16/2014	11.12	7.18	-	-	-	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/23/2014	11.12	7.31	-	-	-	-	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/30/2014	11.12	6.97	-	-	-	-	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/09/2015	11.12	7.34	-	-	-	-	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/16/2015	11.12	6.88	-	-	-	-	4.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/19/2015	11.12	6.77	-	-	-	-	4.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	01/26/2015	11.12	5.79	-	-	-	-	5.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/03/2015	11.12	7.24	-	-	-	9.90	3.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/09/2015	11.12	7.42	-	-	-	-	3.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/18/2015	11.12	7.63	-	-	-	-	3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/24/2015	11.12	7.76	-	-	-	9.84	3.36	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/25/2015	11.12	7.80	-	-	-	9.79	3.32	10:20	<0.5	<0.5	2	<0.5	<0.5	<2	<0.5	<0.5	4.1	130	-	9,500	
MW-106	03/04/2015	11.12	7.57	-	-	-	-	3.55	13:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/11/2015	11.12	5.17	-	-	-	-	5.95	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/18/2015	11.12	6.39	-	-	-	-	4.73	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/26/2015	11.12	7.02	-	-	-	9.90	4.10	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/02/2015	11.12	7.15	-	-	-	9.85	3.97	10:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/08/2015	11.12	7.55	-	-	-	9.87	3.57	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/13/2015	11.12	7.63	-	-	-	-	3.49	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/23/2015	11.12	6.70	-	-	-	9.85	4.42	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	04/29/2015	11.12	7.15	-	-	-	9.85	3.97	13:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/04/2015	11.12	7.23	-	-	-	-	3.89	11:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/11/2015	11.12	7.43	-	-	-	9.85	3.69	14:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/12/2015	11.12	7.50	-	-	-	-	3.62	10:35	<0.5	<0.5	5	<0.5	<0.5	<2	<0.5	<0.5	2 J	75	-	7,800	
MW-106	05/28/2015	11.12	7.81	-	-	-	9.80	3.31	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	06/02/2015	11.12	6.66	-	-	-	-	4.46	12:38	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-106	06/09/2015	11.12	6.37	-	-	-	-	4.75	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	06/16/2015	11.12	7.21	-	-	-	-	3.91	11:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	06/26/2015	11.12	6.27	-	-	-	9.90	4.85	9:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	07/01/2015	11.12	4.77	-	-	-	-	6.35	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/04/2015	11.12	7.42	-	-	-	9.86	3.70	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/05/2015	11.12	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,300	
MW-106	12/01/2015	11.12	7.65	-	-	-	9.85	3.47	13:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	12/03/2015	11.12	NR	-	-	-	-	-	-	<0.5	<0.5	1	<0.5	-	-	-	-	<1	-	-	3,300	
MW-106	03/14/2016	11.12	7.33	-	-	-	9.84	3.79	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	03/15/2016	11.12	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,900	
MW-106	04/21/2016	11.12	7.85	-	-	-	9.80	3.27	9:42	-	-	-	-	-	-	-	-	-	-	-	2,000	
MW-106	05/05/2016	11.12	6.97	-	-	-	-	4.15	12:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/23/2016	11.12	6.52	-	-	-	9.80	4.60	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/24/2016	11.12	6.26	-	-	-	9.60	4.86	13:00	-	-	-	-	-	-	-	-	-	-	-	1,100	
MW-106	06/21/2016	11.12	7.90	-	-	-	-	3.22	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	07/21/2016	11.12	7.63	-	-	-	-	3.49	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/24/2016	11.12	7.90	-	-	-	9.60	3.22	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/25/2016	11.12	7.80	-	-	-	-	3.32	14:15	-	-	-	-	-	-	-	-	-	-	-	1,800	
MW-106	09/22/2016	11.12	7.87	-	-	-	-	3.25	14:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/28/2016	11.12	8.51	-	-	-	9.50	2.61	8:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/29/2016	11.12	8.15	-	-	-	9.45	2.97	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	8,800	
MW-106	02/21/2017	11.12	DRY	-	-	-	9.50	-	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/22/2017	11.12	7.94	-	-	-	9.50	3.18	11:49	-	-	-	-	-	-	-	-	-	-	-	670	Very muddy
MW-106	05/22/2017	11.12	6.81	-	-	-	8.98	4.31	13:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/23/2017	11.12	6.86	-	-	-	8.89	4.26	13:40	-	-	-	-	-	-	-	-	-	-	-	414	
MW-106	08/28/2017	11.12	DRY	-	-	-	8.73	-	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/28/2017	11.12	DRY	-	-	-	8.80	-	10:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/20/2018	11.12	6.90	-	-	-	8.79	4.22	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/21/2018	11.12	6.98	-	-	-	8.79	4.14	11:20	-	-	-	-	-	-	-	-	-	-	-	560	
MW-106	05/21/2018	11.12	4.15	-	-	-	8.81	6.97	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/24/2018	11.12	4.55	-	-	-	8.81	6.57	8:30	-	-	-	-	-	-	-	-	-	-	-	422	
MW-106	08/13/2018	11.12	6.23	-	-	-	8.80	4.89	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/14/2018	11.12	6.25	-	-	-	8.80	4.87	12:23	-	-	-	-	-	-	-	-	-		-	<45	
MW-106	11/12/2018	11.12	5.22	-	-	-	7.81	5.90	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	11/14/2018	11.14	4.72	-	-	-	8.80	6.42	11:45	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	<53	
MW-107	08/08/2014	15.74	10.62	-	-	-	11.57	5.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/11/2014	15.74	9.02	-	-	-	-	6.72	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-107	08/15/2014	15.74	8.94	-	-	-	-	6.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/16/2014	15.74	8.93	-	-	-	11.57	6.81	-	-	-	-	-	-	-	-	-	-	-	-	8,540	
MW-107	08/18/2014	15.74	8.89	-	-	-	-	6.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/25/2014	15.74	8.38	-	-	-	-	7.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	09/02/2014	15.74	8.43	-	-	-	-	7.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	09/15/2014	15.74	9.39	-	-	-	-	6.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	09/22/2014	15.74	9.92	-	-	-	-	5.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/01/2014	15.74	10.32	-	-	-	11.03	5.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/10/2014	15.74	10.53	-	-	-	-	5.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/13/2014	15.74	10.67	-	-	-	-	5.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/20/2014	15.74	8.43	-	-	-	11.04	7.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	10/22/2014	15.74	NR	-	-	-	-	-	-	<0.5	<0.5	2	2	<0.5	<2	<0.5	<0.5	0.9	49	-	840	
MW-107	10/27/2014	15.74	7.97	-	-	-	-	7.77	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/07/2014	15.74	8.32	-	-	-	-	7.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/12/2014	15.74	8.63	-	-	-	-	7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/21/2014	15.74	9.38	-	-	-	-	6.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/26/2014	15.74	8.93	-	-	-	-	6.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/05/2014	15.74	7.47	-	-	-	-	8.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/11/2014	15.74	7.43	-	-	-	-	8.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/16/2014	15.74	8.28	-	-	-	-	7.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/23/2014	15.74	8.35	-	-	-	-	7.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/30/2014	15.74	8.20	-	-	-	-	7.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/09/2015	15.74	8.03	-	-	-	-	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/16/2015	15.74	7.68	-	-	-	-	8.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/19/2015	15.74	6.76	-	-	-	-	8.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	01/26/2015	15.74	5.84	-	-	-	-	9.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/03/2015	15.74	8.63	-	-	-	11.04	7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/09/2015	15.74	8.73	-	-	-	-	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/18/2015	15.74	9.21	-	-	-	-	6.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/24/2015	15.74	9.78	-	-	-	11.00	5.96	13:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	02/25/2015	15.74	9.64	-	-	-	11.00	6.10	11:40	1	<0.5	0.7	0.7	<0.5	<2	<0.5	<0.5	-	37	-	480	
MW-107	03/04/2015	15.74	9.48	-	-	-	-	6.26	13:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	03/11/2015	15.74	4.08	-	-	-	-	11.66	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	03/18/2015	15.74	7.44	-	-	-	-	8.30	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	03/26/2015	15.74	8.98	-	-	-	11.00	6.76	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	04/02/2015	15.74	8.63	-	-	-	11.00	7.11	10:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	04/08/2015	15.74	9.00	-	-	-	11.00	6.74	9:45	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-107	04/13/2015	15.74	9.06	-	-	-	-	6.68	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	04/23/2015	15.74	7.18	-	-	-	11.00	8.56	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	04/29/2015	15.74	9.14	-	-	-	11.00	6.60	13:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	05/04/2015	15.74	9.03	-	-	-	-	6.71	11:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	05/11/2015	15.74	9.19	-	-	-	11.00	6.55	14:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	05/12/2015	15.74	9.25	-	-	-	-	6.49	10:37	<0.5	<0.5	2	3	<0.5	<2	<0.5	<0.5	5.00	40 J	-	150	
MW-107	05/21/2015	15.74	9.21	-	-	-	11.00	6.53	11:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	05/28/2015	15.74	9.27	-	-	-	11.00	6.47	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	06/02/2015	15.74	3.95	-	-	-	-	11.79	12:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	06/09/2015	15.74	6.78	-	-	-	-	8.96	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	06/16/2015	15.74	9.05	-	-	-	-	6.69	10:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	06/26/2015	15.74	6.86	-	-	-	11.00	8.88	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	07/01/2015	15.74	4.03	-	-	-	-	11.71	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/04/2015	15.74	9.40	-	-	-	11.00	6.34	12:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/05/2015	15.74	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	
MW-107	12/01/2015	15.74	8.80	-	-	-	11.01	6.94	13:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	12/03/2015	15.74	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	730	
MW-107	03/14/2016	15.74	8.09	-	-	-	11.03	7.65	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	05/23/2016	15.74	7.29	-	-	-	10.90	8.45	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/24/2016	15.74	DRY	-	-	-	11.02	-	9:30	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-107	11/28/2016	15.74	DRY	-	-	-	11.00	-	8:27	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-107	12/07/2016	15.74	DRY	-	-	-	11.00	-	12:18	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-107	02/21/2017	15.74	DRY	-	-	-	11.00	-	12:28	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-107	02/22/2017	15.74	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-107	05/22/2017	15.74	7.42	-	-	-	11.02	8.32	11:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/28/2017	15.74	9.95	-	-	-	10.96	5.79	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/28/2017	15.74	9.96	-	-	-	11.02	5.78	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/30/2017	15.74	10.66	-	-	-	10.93	5.08	10:35	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-107	02/20/2018	15.74	8.08	-	-	-	11.01	7.66	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	05/21/2018	15.74	6.19	-	-	-	10.98	9.55	14:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/13/2018	15.74	6.23	-	-	-	11.03	9.51	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/12/2018	15.74	7.17	-	-	-	10.98	8.57	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	11/14/2018	15.74	5.97	-	-	-	11.10	9.77	11:46	-	-	-	-	-	-	-	-	-	-	-	400	
MW-108	08/08/2014	15.61	DRY	-	-	-	9.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	08/11/2014	15.61	DRY	-	-	-	9.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	08/15/2014	15.61	9.01	-	-	-	9.22	6.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-108	08/18/2014	15.61	9.07	-	-	-	-	6.54	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-108	08/25/2014	15.61	DRY	-	-	-	9.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	09/02/2014	15.61	DRY	-	-	-	9.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	09/15/2014	15.61	DRY	-	-	-	9.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	09/22/2014	15.61	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	10/01/2014	15.61	DRY	-	-	-	10.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	10/10/2014	15.61	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	10/20/2014	15.61	DRY	-	-	-	10.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	05/11/2015	15.61	DRY	-	-	-	9.20	-	14:47	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	05/12/2015	15.61	DRY	-	-	-	-	-	10:40	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	08/04/2015	15.61	DRY	-	-	-	9.21	-	12:27	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	12/01/2015	15.61	DRY	-	-	-	9.21	-	13:49	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	03/14/2016	15.61	DRY	-	-	-	9.22	-	9:18	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	05/23/2016	15.61	8.37	-	-	-	9.20	7.24	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-108	05/25/2016	15.61	8.34	-	-	-	9.20	7.27	12:13	-	-	-	-	-	-	-	-	-	-	-	51 J	
MW-108	08/24/2016	15.61	DRY	-	-	-	9.23	-	9:32	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	08/25/2016	15.61	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	11/28/2016	15.61	9.07	-	-	-	9.25	6.54	8:29	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-108	12/07/2016	15.61	DRY	-	-	-	9.24	-	12:21	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	02/21/2017	15.61	DRY	-	-	-	9.21	-	12:33	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	02/22/2017	15.61	9.19	-	-	-	9.22	6.42	11:52	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-108	05/22/2017	15.61	DRY	-	-	-	9.21	-	11:31	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	05/23/2017	15.61	DRY	-	-	-	9.20	-	13:45	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-108	08/28/2017	15.61	9.09	-	-	-	9.20	6.52	10:05	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-108	11/28/2017	15.61	DRY	-	-	-	9.25	-	10:53	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW-108	02/20/2018	15.61	9.05	-	-	-	9.25	6.56	10:04	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-108	05/21/2018	15.61	6.02	-	-	-	9.23	9.59	14:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-108	05/22/2018	15.61	6.94	-	-	-	9.23	8.67	14:10	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-108	08/13/2018	15.61	9.20	-	-	-	9.23	6.41	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-108	08/14/2018	15.61	9.02	-	-	-	9.23	6.59	12:20	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
MW-108	11/12/2018	15.61	7.78	-	-	-	9.20	7.83	12:53	-	-	-	-	-	-	-	-	-		-	-	
MW-108	11/14/2018	15.61	6.41	-	-	-	9.21	9.20	11:48	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-109S	08/21/2014	19.27	10.08	-	-	-	13.35	9.19	13:50	-	-	-	-	-	-	-	-	-	-	-	7,500	
MW-109S	09/15/2014	19.27	10.19	-	-	-	-	9.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	09/22/2014	19.27	10.24	-	-	-	-	9.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	10/01/2014	19.27	10.33	-	-	-	13.20	8.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	10/10/2014	19.27	10.47	-	-	-	-	8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	10/13/2014	19.27	10.58	-	-	-	-	8.69	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-109S	10/20/2014	19.27	10.67	-	-	-	13.20	8.60	-	-	-	-	-	-	-	-	-	-	-	-	12,000	
MW-109S	10/27/2014	19.27	10.83	-	-	-	-	8.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/07/2014	19.27	10.76	-	-	-	-	8.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/12/2014	19.27	10.85	-	-	-	-	8.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/21/2014	19.27	11.04	-	-	-	-	8.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/26/2014	19.27	11.02	-	-	-	-	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	02/24/2015	19.27	11.43	-	-	-	13.06	7.84	13:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	02/26/2015	19.27	11.36	-	-	-	13.06	7.91	10:40	-	-	-	-	-	-	-	-	-	-	-	1,800	
MW-109S	05/11/2015	19.27	11.31	-	-	-	13.20	7.96	15:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	05/12/2015	19.27	11.28	-	-	-	13.20	7.99	10:00	<0.5	<0.5	<0.5	<0.5	<0.5	4 J	<0.5	<0.5	<1	-	-	180	
MW-109S	05/21/2015	19.27	11.40	-	-	-	13.06	7.87	12:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/28/2016	19.27	10.97	-	-	-	13.25	8.30	9:25	-	-	-	-	-	-	-	-	-	-	-	2,300	
MW-109S	11/28/2017	19.27	11.52	-	-	-	13.24	7.75	12:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/29/2017	19.27	11.50	-	-	-	13.25	7.77	10:03	-	-	-	-	-	-	-	-	-	-	184	351	
MW-109S	11/12/2018	19.27	9.15	-	-	-	13.28	10.12	12:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109S	11/13/2018	19.27	9.08	-	-	-	13.28	10.19	10:47	-	-	-	-	-	-	-	-	-	-	-	1,300	
MW-109	08/21/2014	19.16	14.82	-	-	-	22.40	4.34	13:55	-	-	-	-	-	-	-	-	-	-	-	<600	
MW-109	08/25/2014	19.16	14.59	-	-	-	-	4.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	09/15/2014	19.16	14.98	-	-	-	-	4.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	09/22/2014	19.16	14.88	-	-	-	-	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	10/01/2014	19.16	15.07	-	-	-	22.79	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	10/10/2014	19.16	14.96	-	-	-	-	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	10/13/2014	19.16	15.09	-	-	-	-	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	10/20/2014	19.16	15.22	-	-	-	22.72	3.94	-	-	-	-	-	-	-	-	-	-	-	-	200	
MW-109	10/27/2014	19.16	15.27	-	-	-	-	3.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	11/07/2014	19.16	15.07	-	-	-	-	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	11/12/2014	19.16	15.13	-	-	-	-	4.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	11/21/2014	19.16	15.81	-	-	-	-	3.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	11/26/2014	19.16	15.33	-	-	-	-	3.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	02/24/2015	19.16	15.25	-	-	-	22.80	3.91	13:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	02/26/2015	19.16	15.25	-	-	-	22.80	3.91	10:44	-	-	-	-	-	-	-	-	-	-	-	100	
MW-109	05/11/2015	19.16	14.61	-	-	-	22.84	4.55	15:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	05/12/2015	19.16	14.77	-	-	-	22.84	4.39	9:57	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-109	05/21/2015	19.16	15.23	-	-	-	22.80	3.93	12:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-109	11/28/2016	19.16	16.95	-	-	-	22.24	2.21	9:29	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-109	11/28/2017	19.16	18.70	-	-	-	22.54	0.46	12:25	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-109	11/12/2018	19.16	14.27	-	-	-	22.67	4.89	12:30	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-109	11/13/2018	19.16	13.84	-	-	-	22.67	5.32	10:50	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-110S	08/25/2014	19.13	10.05	-	-	-	12.70	9.08	-	-	-	-	-	-	-	-	-	-	-	-	6,630	
MW-110S	09/15/2014	19.13	10.23	-	-	-	-	8.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	09/22/2014	19.13	10.28	-	-	-	-	8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	10/01/2014	19.13	10.33	-	-	-	12.65	8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	10/10/2014	19.13	10.41	-	-	-	-	8.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	10/20/2014	19.13	10.45	-	-	-	12.66	8.68	-	-	-	-	-	-	-	-	-	-	-	-	8,500	
MW-110S	10/27/2014	19.13	10.48	-	-	-	-	8.65	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/07/2014	19.13	10.50	-	-	-	-	8.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/12/2014	19.13	10.53	-	-	-	-	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/21/2014	19.13	10.60	-	-	-	-	8.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/26/2014	19.13	10.60	-	-	-	-	8.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	02/24/2015	19.13	11.53	-	-	-	12.67	7.60	13:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	02/26/2015	19.13	11.59	-	-	-	12.67	7.54	10:33	-	-	-	-	-	-	-	-	-	-	-	6,700	
MW-110S	05/11/2015	19.13	12.24	-	-	-	12.65	6.89	14:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	05/12/2015	19.13	12.24	-	-	-	12.65	6.89	9:47	-	-	-	-	-	-	-	-	-	-	-	2,300	
MW-110S	05/21/2015	19.13	11.55	-	-	-	12.67	7.58	12:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/28/2016	19.13	11.98	-	-	-	12.70	7.15	9:19	-	-	-	-	-	-	-	-	-	-	-	5,900	
MW-110S	11/28/2017	19.13	12.27	-	-	-	12.70	6.86	12:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/29/2017	19.13	12.28	-	-	-	12.70	6.85	9:59	-	-	-	-	-	-	-	-	-	-	44,400	-	Insufficient GW Vol. to analyze for TPH-DRO
MW-110S	11/12/2018	19.13	9.17	-	-	-	12.70	9.96	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110S	11/13/2018	19.13	9.13	-	-	-	12.70	10.00	10:41	-	-	-	-	-	-	-	-	-	-	-	460	
MW-110	08/25/2014	19.51	14.70	-	-	-	24.40	4.81	-	-	-	-	-	-	-	-	-	-	-	-	<153	
MW-110	09/15/2014	19.51	15.11	-	-	-	-	4.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	09/22/2014	19.51	14.98	-	-	-	-	4.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	10/01/2014	19.51	15.18	-	-	-	23.33	4.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	10/10/2014	19.51	15.07	-	-	-	-	4.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	10/20/2014	19.51	14.35	-	-	-	23.34	5.16	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-110	10/27/2014	19.51	14.39	-	-	-	-	5.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/07/2014	19.51	15.18	-	-	-	-	4.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/12/2014	19.51	15.25	-	-	-	-	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/21/2014	19.51	15.97	-	-	-	-	3.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/26/2014	19.51	15.45	-	-	-	-	4.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	02/24/2015	19.51	15.38	-	-	-	23.36	4.13	13:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	02/26/2015	19.51	15.38	-	-	-	23.36	4.13	10:36	-	-	-	-	-	-	-	-	-	-	-	<45	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-110	05/11/2015	19.51	14.74	-	-	-	23.42	4.77	14:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	05/12/2015	19.51	14.91	-	-	-	23.42	4.60	9:44	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-110	05/21/2015	19.51	15.40	-	-	-	23.36	4.11	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/28/2016	19.51	15.67	-	-	-	23.52	3.84	9:22	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-110	11/28/2017	19.51	18.32	-	-	-	23.48	1.19	12:28	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-110	11/12/2018	19.51	13.85	-	-	-	23.60	5.66	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-110	11/13/2018	19.51	13.58	-	-	-	23.60	5.93	10:44	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-111	08/21/2014	19.17	14.80	-	-	-	22.00	4.37	14:47	-	-	-	-	-	-	-	-	-	-	-	<600	
MW-111	10/10/2014	19.17	14.97	-	-	-	-	4.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-111	10/20/2014	19.17	14.25	-	-	-	21.97	4.92	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-111	02/24/2015	19.17	15.30	-	-	-	21.96	3.87	13:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-111	02/26/2015	19.17	15.28	-	-	-	21.96	3.89	10:25	-	-	-	-	-	-	-	-	-	-	-	260	
MW-111	05/11/2015	19.17	14.66	-	-	-	21.87	4.51	14:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW-111	05/12/2015	19.17	14.78	-	-	-	21.87	4.39	9:41	-	-	-	-	-	-	-	-	-	-	-	150	
MW-111	11/28/2016	19.17	15.57	-	-	-	21.62	3.60	9:08	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-111	11/28/2017	19.17	18.15	-	-	-	21.65	1.02	12:17	-	-	-	-	-	-	-	-	-	-	-	251	
MW-111	11/12/2018	19.17	12.84	-	-	-	21.60	6.33	12:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-111	11/13/2018	19.17	12.60	-	-	-	21.60	6.57	10:38	-	-	-	-	-	-	-	-	-	-	-	110	
MW-112S	08/15/2014	19.22	10.31	-	-	-	12.40	8.91	-	-	-	-	-	-	-	-	-	-	-	-	<1,500	
MW-112S	08/18/2014	19.22	10.22	-	-	-	12.45	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	08/25/2014	19.22	10.29	-	-	-	-	8.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	09/15/2014	19.22	10.43	-	-	-	-	8.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	09/22/2014	19.22	10.56	-	-	-	-	8.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	10/01/2014	19.22	10.58	-	-	-	12.46	8.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	10/10/2014	19.22	10.64	-	-	-	-	8.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	10/20/2014	19.22	10.75	-	-	-	12.47	8.47	-	-	-	-	-	-	-	-	-	-	-	-	380	
MW-112S	02/24/2015	19.22	11.30	-	-	-	12.48	7.92	13:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	02/26/2015	19.22	11.34	-	-	-	12.48	7.88	10:19	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-112S	05/11/2015	19.22	11.21	-	-	-	12.44	8.01	15:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	05/12/2015	19.22	11.21	-	-	-	12.44	8.01	9:54	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-112S	11/28/2016	19.22	11.05	-	-	-	12.50	8.17	9:15	-	-	-	-	-	-	-	-	-	-	-	73 J	
MW-112S	11/28/2017	19.22	11.37	-	-	-	12.48	7.85	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	11/29/2017	19.22	11.37	-	-	-	12.35	7.85	9:55	-	-	-	-	-	-	-	-	-	-	172	209	
MW-112S	11/12/2018	19.22	9.20	-	-	-	12.50	10.02	12:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112S	11/13/2018	19.22	9.15	-	-	-	12.50	10.07	10:53	-	-	-	-	-	-	-	-	-	-	-	1,600	
MW-112	08/15/2014	19.08	15.11	-	-	-	22.55	3.97	-	-	-	-	-	-	-	-	-	-	-	-	<1,500	
MW-112	08/18/2014	19.08	14.43	-	-	-	22.31	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-112	08/25/2014	19.08	14.53	-	-	-	-	4.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	09/02/2014	19.08	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Access to Gauge
MW-112	09/15/2014	19.08	14.85	-	-	-	-	4.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	09/22/2014	19.08	14.77	-	-	-	-	4.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	10/01/2014	19.08	14.92	-	-	-	22.83	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	10/10/2014	19.08	14.87	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	10/20/2014	19.08	15.15	-	-	-	22.83	3.93	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-112	02/24/2015	19.08	15.19	-	-	-	22.75	3.89	13:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	02/26/2015	19.08	15.15	-	-	-	22.75	3.93	10:22	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-112	05/11/2015	19.08	14.52	-	-	-	22.83	4.56	14:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	05/12/2015	19.08	14.64	-	-	-	22.83	4.44	9:51	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-112	11/28/2016	19.08	15.50	-	-	-	22.85	3.58	9:12	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-112	11/28/2017	19.08	18.09	-	-	-	22.85	0.99	12:20	-	-	-	-	-	-	-	-	-	-	-	<83	
MW-112	11/12/2018	19.08	13.72	-	-	-	22.85	5.36	12:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-112	11/13/2018	19.08	13.48	-	-	-	22.85	5.60	10:56	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-113	08/25/2014	19.11	14.49	-	-	-	-	4.62	-	-	-	-	-	-	-	-	-	-	-	-	<600	
MW-113	09/15/2014	19.11	14.96	-	-	-	-	4.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	09/22/2014	19.11	14.83	-	-	-	-	4.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	10/01/2014	19.11	15.04	-	-	-	22.95	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	10/10/2014	19.11	14.84	-	-	-	-	4.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	10/20/2014	19.11	15.20	-	-	-	22.95	3.91	-	-	-	-	-	-	-	-	-	-	-	-	61	
MW-113	02/24/2015	19.11	15.24	-	-	-	22.95	3.87	13:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	02/26/2015	19.11	15.27	-	-	-	22.95	3.84	10:29	-	-	-	-	-	-	-	-	-	-	-	90	
MW-113	05/11/2015	19.11	14.58	-	-	-	22.77	4.53	14:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	05/12/2015	19.11	14.81	-	-	-	22.77	4.30	9:38	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-113	11/28/2016	19.11	15.54	-	-	-	22.83	3.57	9:04	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-113	11/28/2017	19.11	18.14	-	-	-	22.82	0.97	12:14	-	-	-	-	-	-	-	-	-	-	-	1,050	
MW-113	11/12/2018	19.11	11.20	-	-	-	22.82	7.91	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-113	11/13/2018	19.11	10.98	-	-	-	22.82	8.13	10:35	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-114	08/25/2014	19.26	14.62	-	-	-	22.78	4.64	-	-	-	-	-	-	-	-	-	-	-	-	<600	
MW-114	09/15/2014	19.26	14.89	-	-	-	-	4.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	09/22/2014	19.26	14.87	-	-	-	-	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	10/01/2014	19.26	14.96	-	-	-	22.77	4.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	10/10/2014	19.26	15.01	-	-	-	-	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	10/20/2014	19.26	15.29	-	-	-	22.77	3.97	-	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-114	02/24/2015	19.26	15.25	-	-	-	22.77	4.01	13:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	02/26/2015	19.26	15.10	-	-	-	22.77	4.16	10:15	-	-	-	-	-	-	-	-	-	-	-	<45	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-114	05/11/2015	19.26	14.52	-	-	-	22.75	4.74	14:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	05/12/2015	19.26	14.51	-	-	-	22.75	4.75	9:35	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-114	11/28/2016	19.26	15.62	-	-	-	22.80	3.64	9:00	-	-	-	-	-	-	-	-	-	-	-	<45	
MW-114	11/28/2017	19.26	17.98	-	-	-	22.77	1.28	12:10	-	-	-	-	-	-	-	-	-	-	-	130	
MW-114	11/12/2018	19.26	13.02	-	-	-	22.78	6.24	12:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-114	11/13/2018	19.26	12.71	-	-	-	22.78	6.55	11:00	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-121	07/08/2015	31.43	26.52	-	-	-	-	4.91	11:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	07/13/2015	31.43	26.14	-	-	-	36.93	5.29	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	07/20/2015	31.43	26.37	-	-	-	-	5.06	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	07/28/2015	31.43	26.53	-	-	-	37.06	4.90	11:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/04/2015	31.43	25.91	-	-	-	36.33	5.52	12:22	-	-	-	-	-	-	-	-	-	-	-	9,400	
MW-121	08/11/2015	31.43	25.58	-	-	-	36.31	5.85	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/18/2015	31.43	26.12	-	-	-	-	5.31	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/24/2015	31.43	26.02	-	-	-	-	5.41	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	09/02/2015	31.43	26.38	-	-	-	36.31	5.05	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	09/09/2015	31.43	26.11	-	-	-	36.29	5.32	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	09/17/2015	31.43	26.51	-	-	-	36.41	4.92	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	09/23/2015	31.43	26.32	-	-	-	-	5.11	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	09/28/2015	31.43	26.18	-	-	-	36.25	5.25	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	10/05/2015	31.43	26.02	-	-	-	36.25	5.41	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/10/2015	31.43	26.62	-	-	-	-	4.81	13:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	12/01/2015	31.43	26.48	-	-	-	36.20	4.95	13:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	12/02/2015	31.43	NR	-	-	-	-	-	-	2.00	<0.5	8.00	<0.5	-	-	-	-	41.00	-	-	4,500	
MW-121	01/27/2016	31.43	26.58	-	-	-	-	4.85	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	02/15/2016	31.43	27.11	-	-	-	-	4.32	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	03/14/2016	31.43	26.57	-	-	-	36.28	4.86	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	03/15/2016	31.43	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,500	
MW-121	04/21/2016	31.43	30.48	-	-	-	-	0.95	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	05/23/2016	31.43	27.26	-	-	-	37.06	4.17	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	05/25/2016	31.43	29.73	-	-	-	36.60	1.70	-	-	-	-	-	-	-	-	-	-	-	-	12,000	
MW-121	06/21/2016	31.43	29.17	-	-	-	-	2.26	11:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	07/21/2016	31.43	29.57	-	-	-	-	1.86	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/24/2016	31.43	27.56	-	-	-	36.39	3.87	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/25/2016	31.43	26.90	-	-	-	36.35	4.53	11:02	-	-	-	-	-	-	-	-	-	-	-	2,400	
MW-121	09/22/2016	31.43	28.52	-	-	-	-	2.91	14:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/28/2016	31.43	28.13	-	-	-	37.35	3.30	8:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/29/2016	31.43	28.75	-	-	-	36.36	2.68	9:33	<0.5	<0.5	0.9 J	<0.5	-	-	-	-	11	-	-	3,400	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-121	02/21/2017	31.43	27.87	-	-	-	36.37	3.56	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	02/22/2017	31.43	29.66	-	-	-	-	1.77	9:49	-	-	-	-	-	-	-	-	-	-	-	720,000	
MW-121	03/07/2017	31.43	29.10	-	-	-	36.35	2.33	11:13	-	-	-	-	-	-	-	-	<1	-	-	21,000	
MW-121	05/22/2017	31.43	26.60	-	-	-	-	4.83	13:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	05/24/2017	31.43	26.17	-	-	-	36.35	5.26	9:55	0.38	<1	0.81 J	<1	-	-	-	-	12.50	-	-	57,100	
MW-121	08/28/2017	31.43	32.50	-	-	-	36.35	-1.07	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/29/2017	31.43	32.40	-	-	-	36.35	-0.97	10:56	-	-	-	-	-	-	-	-	<0.66	-	5,030	4,600	
MW-121	11/28/2017	31.43	30.61	-	-	-	38.47	0.82	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/29/2017	31.43	30.32	-	-	-	36.34	1.11	10:58	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	18,400	15,900	
MW-121	02/20/2018	31.43	28.30	-	-	-	38.21	3.13	9:59	-	-	-	-	-	-	-		-	-	-	-	
MW-121	02/22/2018	31.43	28.65	-	-	-	36.40	2.78	9:10	-	-	-	-	-	-	-	-	-	-	2,860	3,180	
MW-121	05/24/2018	31.43	26.23	-	-	-	36.35	5.20	8:06	-	-	-	-	-	-	-	-	-	-	-	51,400	
MW-121	06/26/2018	31.43	26.22	-	-	-	36.27	5.21	9:32	-	-	-	-	-	-	-	-	-	-	1,700 B	32,200	
MW-121	08/13/2018	31.43	25.92	-	-	-	36.40	5.51	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/15/2018	31.43	27.62	-	-	-	38.92	3.81	10:51	-	-	-	-	-	-	-	-	-	-	-	44,000	
MW-121	11/12/2018	31.43	25.82	-	-	-	36.38	5.61	12:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	11/14/2018	31.43	26.23	-	-	-	36.38	5.20	10:27	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	7,900	
MW-122	07/08/2015	31.64	25.58	-	-	-	-	6.06	11:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	07/13/2015	31.64	25.36	-	-	-	34.72	6.28	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	07/20/2015	31.64	25.20	-	-	-	-	6.44	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	07/28/2015	31.64	25.38	-	-	-	34.85	6.26	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/04/2015	31.64	25.54	-	-	-	34.61	6.10	12:24	-	-	-	-	-	-	-	-	-	-	-	2,000	
MW-122	08/11/2015	31.64	25.46	-	-	-	34.79	6.18	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/18/2015	31.64	25.98	-	-	-	-	5.66	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/24/2015	31.64	25.83	-	-	-	-	5.81	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	09/02/2015	31.64	26.21	-	-	-	34.76	5.43	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	09/09/2015	31.64	26.03	-	-	-	34.78	5.61	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	09/17/2015	31.64	26.45	-	-	-	34.83	5.19	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	09/23/2015	31.64	26.18	-	-	-	-	5.46	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	09/28/2015	31.64	25.98	-	-	-	34.72	5.66	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	10/05/2015	31.64	25.50	25.50	TRACE	-	34.72	6.14	9:13	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW-122	11/10/2015	31.64	26.32	-	-	-	-	5.32	13:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	12/01/2015	31.64	26.57	-	-	-	34.72	5.07	13:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	12/02/2015	31.64	NR	-	-	-	-	-	-	1.00	<0.5	8.00	<0.5	-	-	-	-	<1	-	-	1,600	
MW-122	01/27/2016	31.64	26.63	-	-	-	-	5.01	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	02/15/2016	31.64	27.05	-	-	-	-	4.59	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	03/14/2016	31.64	26.47	-	-	-	34.77	5.17	8:50	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW-122	03/15/2016	31.64	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,800	
MW-122	04/21/2016	31.64	27.32	-	-	-	-	4.32	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	05/23/2016	31.64	27.35	-	-	-	34.82	4.29	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	05/25/2016	31.64	27.51	-	-	-	34.90	4.13	-	-	-	-	-	-	-	-	-	-	-	-	4,000	
MW-122	06/21/2016	31.64	27.33	-	-	-	-	4.31	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	07/21/2016	31.64	27.22	-	-	-	-	4.42	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/24/2016	31.64	27.07	-	-	-	34.80	4.57	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/25/2016	31.64	26.93	-	-	-	36.77	4.71	10:58	-	-	-	-	-	-	-	-	-	-	-	1,900	
MW-122	09/22/2016	31.64	27.03	-	-	-	-	4.61	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/28/2016	31.64	27.24	-	-	-	35.80	4.40	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/29/2016	31.64	27.28	-	-	-	34.78	4.36	9:30	2	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	1,300	
MW-122	02/21/2017	31.64	27.60	-	-	-	34.80	4.04	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	02/22/2017	31.64	27.36	-	-	-	-	4.28	9:46	-	-	-	-	-	-	-	-	-	-	-	1,900	
MW-122	05/22/2017	31.64	26.61	-	-	-	-	5.03	13:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	05/24/2017	31.64	25.52	-	-	-	34.70	6.12	9:50	-	-	-	-	-	-	-	-	-	-	-	5,340	
MW-122	08/28/2017	31.64	32.76	-	-	-	34.80	-1.12	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/29/2017	31.64	32.72	-	-	-	34.80	-1.08	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/30/2017	31.64	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,780	
MW-122	11/28/2017	31.64	30.61	-	-	-	37.25	1.03	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/29/2017	31.64	30.42	-	-	-	37.25	1.22	10:55	<0.50	0.47 J	0.84 J	1.4	-	-	-	-	<5.0	-	-	950	
MW-122	02/20/2018	31.64	28.39	-	-	-	37.83	3.25	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	02/22/2018	31.64	28.55	-	-	-	34.80	3.09	9:05	-	-	-	-	-	-	-	-	-	-	-	6,280	
MW-122	05/24/2018	31.64	26.33	-	-	-	34.82	5.31	8:03	-	-	-	-	-	-	-	-	-	-	-	11,200	
MW-122	06/26/2018	31.64	26.22	-	-	-	36.27	5.42	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/13/2018	31.64	26.07	-	-	-	34.83	5.57	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	08/15/2018	31.64	26.22	-	-	-	37.13	5.42	11:29	-	-	-	-	-	-	-	-	-	-	-	2,600	
MW-122	11/12/2018	31.64	25.90	-	-	-	34.83	5.74	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	11/14/2018	31.64	26.15	-	-	-	34.83	5.49	10:23	<0.2	<0.2	0.9 J	1 J	-	-	-	-	<4	-	-	6,300	
MW/RW-123S	07/08/2015	31.09	DRY	-	-	-	24.92	-	11:35	-	-	-	-	-	-	-	-	-	-	-	-	DRY
MW/RW-123S	07/13/2015	31.09	23.96	-	-	-	24.90	7.13	9:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/20/2015	31.09	22.37	-	-	-	-	8.72	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/28/2015	31.09	22.15	-	-	-	24.98	8.94	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/04/2015	31.09	22.04	-	-	-	24.91	9.05	13:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/05/2015	31.09	22.07	-	-	-	24.93	9.02	9:16	-	-	-	-	-	-	-	-	-	-	-	2,400	
MW/RW-123S	08/11/2015	31.09	22.04	-	-	-	24.91	9.05	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/18/2015	31.09	22.05	-	-	-	-	9.04	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/24/2015	31.09	22.08	-	-	-	-	9.01	9:53	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-123S	09/02/2015	31.09	22.26	22.25	0.01	TRACE	24.92	8.84	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/09/2015	31.09	22.33	-	-	-	24.92	8.76	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/17/2015	31.09	22.56	-	-	-	24.97	8.53	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/23/2015	31.09	22.57	-	-	-	-	8.52	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/28/2015	31.09	22.59	-	-	-	24.91	8.50	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	10/05/2015	31.09	22.61	22.61	TRACE	-	24.92	8.48	9:09	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-123S	11/10/2015	31.09	25.31	-	-	-	-	5.78	12:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	12/01/2015	33.54	25.53	-	-	-	27.40	8.01	10:55	-	-	-	-	-	-	-	-	-	-	-	2,500	
MW/RW-123S	01/27/2016	33.54	25.76	-	-	-	-	7.78	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/15/2016	33.54	24.93	-	-	-	-	8.61	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	03/14/2016	33.54	24.35	-	-	-	27.39	9.19	12:00	-	-	-	-	-	-	-	-	-	-	-	13,000	
MW/RW-123S	04/21/2016	33.54	25.93	-	-	-	27.16	7.61	10:52	-	-	-	-	-	-	-	-	-	-	-	150,000	
MW/RW-123S	05/23/2016	33.54	26.06	-	-	-	27.32	7.48	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/24/2016	33.54	25.46	-	-	-	27.50	8.08	8:55	-	-	-	-	-	-	-	-	-	-	-	100,000	
MW/RW-123S	06/21/2016	33.54	26.05	-	-	-	-	7.49	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/21/2016	33.54	26.03	-	-	-	-	7.51	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/24/2016	33.54	26.09	-	-	-	27.00	7.45	11:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/25/2016	33.54	24.11	-	-	-	-	9.43	9:50	-	-	-	-	-	-	-	-	-	-	-	1,200,000	
MW/RW-123S	09/22/2016	33.54	26.14	-	-	-	27.02	7.40	12:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	10/20/2016	33.54	26.16	-	-	-	-	7.38	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/28/2016	33.54	26.12	-	-	-	27.00	7.42	11:09	-	-	-	-	-	-	-	-	-	-	-	190,000	
MW/RW-123S	12/22/2016	33.54	26.15	-	-	-	27.05	7.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/30/2017	33.54	26.13	-	-	-	26.90	7.41	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/21/2017	33.54	26.06	-	-	-	26.85	7.48	10:13	-	-	-	-	-	-	-	-	-	-	-	530,000	
MW/RW-123S	03/29/2017	33.54	26.10	-	-	-	26.90	7.44	12:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	04/18/2017	33.54	26.10	-	-	-	26.84	7.44	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/22/2017	33.54	23.25	-	-	-	26.90	10.29	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/23/2017	33.54	21.93	-	-	-	26.90	11.61	10:25	-	-	-	-	-	-	-	-	-	-	-	50,800	
MW/RW-123S	06/22/2017	33.54	26.04	-	-	-	26.65	7.50	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/19/2017	33.54	26.07	-	-	-	26.60	7.47	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/21/2017	33.54	22.48	-	-	-	26.62	11.06	9:16	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/28/2017	33.54	22.97	-	-	-	26.60	10.57	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/29/2017	33.54	23.05	-	-	-	-	10.49	15:15	-	-	-	-	-	-	-	-	<2.0	-	266	11,500	
MW/RW-123S	09/05/2017	33.54	22.80	-	-	-	-	10.74	13:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/20/2017	33.54	23.18	-	-	-	-	10.36	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	10/03/2017	33.54	23.97	-	-	-	-	9.57	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	10/17/2017	33.54	23.98	-	-	-	-	9.56	11:15	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-123S	11/02/2017	33.54	23.87	-	-	-	-	9.67	11:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/28/2017	33.54	23.75	-	-	-	26.57	9.79	13:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/29/2017	33.54	23.93	-	-	-	26.50	9.61	14:16	-	-	-	-	-	-	-	-	-	-	10,600	11,900	
MW/RW-123S	12/05/2017	33.54	24.03	-	-	-	-	9.51	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	12/19/2017	33.54	24.25	-	-	-	-	9.29	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/03/2018	33.54	24.48	-	-	-	-	9.06	12:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/26/2018	33.54	24.91	-	-	-	-	8.63	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/01/2018	33.54	24.83	-	-	-	-	8.71	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/20/2018	33.54	23.32	-	-	-	26.56	10.22	12:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/22/2018	33.54	24.40	-	-	-	26.61	9.14	11:19	-	-	-	-	-	-	-	-	-	-	363	11,900	
MW/RW-123S	03/06/2018	33.54	23.70	-	-	-	-	9.84	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	03/29/2018	33.54	23.45	-	-	-	-	10.09	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	04/11/2018	33.54	23.85	-	-	-	-	9.69	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	04/23/2018	33.54	23.78	-	-	-	-	9.76	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/03/2018	33.54	23.84	-	-	-	-	9.70	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/03/2018	31.22	22.34	-	-	-	-	8.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/21/2018	31.22	22.07	-	-	-	24.97	9.15	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/22/2018	31.22	21.99	-	-	-	24.97	9.23	9:33	-	-	-	-	-	-	-	-	-	-	-	23,600	
MW/RW-123S	06/12/2018	31.22	21.76	-	-	-	-	9.46	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	06/26/2018	31.22	22.71	-	-	-	24.93	8.51	10:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/02/2018	31.22	21.82	-	-	-	-	9.40	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/17/2018	31.22	22.03	-	-	-	-	9.19	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/30/2018	31.22	20.60	-	-	-	-	10.62	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/09/2018	31.22	20.97	-	-	-	-	10.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/13/2018	31.22	20.12	-	-	-	24.97	11.10	12:18	-	-	-	-	-	-	-	-	-	-	-	28,000	
MW/RW-123S	09/04/2018	31.22	20.41	-	-	-	-	10.81	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/25/2018	31.22	26.73	-	-	-	-	-	13:42	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-123S	10/02/2018	31.22	22.23	-	-	-	26.83	-	9:50	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-123S	10/24/2018	31.22	26.75	-	-	-	26.80	-	9:43	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
MW/RW-123S	11/12/2018	33.00	22.60	-	-	-	-	10.40	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	11/13/2018	33.00	22.57	-	-	-	-	10.43	9:50	-	-	-	-	-	-	-	-	-	-	-	6,400	
MW/RW-123S	11/27/2018	33.00	22.33	-	-	-	-	10.67	9:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	12/11/2018	33.00	22.93	-	-	-	-	10.07	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	12/27/2018	33.00	22.84	-	-	-	-	10.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/10/2019	33.00	22.82	-	-	-	-	10.18	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	10/10/2014	31.19	26.93	-	-	-	-	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	10/13/2014	31.19	27.09	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-1	10/20/2014	31.19	27.27	-	-	-	40.65	3.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	10/22/2014	31.19	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30,000	
RW-1	10/27/2014	31.19	27.35	-	-	-	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/07/2014	31.19	27.10	-	-	-	-	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/12/2014	31.19	27.15	-	-	-	-	4.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/21/2014	31.19	27.83	-	-	-	-	3.36	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/26/2014	31.19	27.42	-	-	-	-	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	12/05/2014	31.19	27.25	-	-	-	-	3.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	12/11/2014	31.19	27.09	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	12/16/2014	31.19	26.98	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	12/23/2014	31.19	26.98	-	-	-	-	4.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	12/30/2014	31.19	27.38	-	-	-	-	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	01/09/2015	31.19	27.37	-	-	-	-	3.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	01/16/2015	31.19	27.08	-	-	-	-	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	01/19/2015	31.19	27.07	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	01/26/2015	31.19	27.03	-	-	-	-	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/03/2015	31.19	27.80	-	-	-	40.75	3.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/09/2015	31.19	27.18	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/18/2015	31.19	27.22	-	-	-	-	3.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/24/2015	31.19	27.42	-	-	-	40.35	3.77	13:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/26/2015	31.19	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,200	
RW-1	03/04/2015	31.19	27.27	-	-	-	-	3.92	14:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	03/11/2015	31.19	26.90	-	-	-	-	4.29	12:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	03/18/2015	31.19	27.04	-	-	-	-	4.15	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	03/26/2015	31.19	26.87	-	-	-	40.70	4.32	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/02/2015	31.19	27.02	-	-	-	40.60	4.17	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/08/2015	31.19	27.30	-	-	-	40.55	3.89	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/13/2015	31.19	27.18	-	-	-	-	4.01	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/23/2015	31.19	26.67	-	-	-	40.65	4.52	11:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	04/29/2015	31.19	26.87	-	-	-	40.70	4.32	14:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/04/2015	31.19	26.72	-	-	-	-	4.47	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/11/2015	31.19	26.70	-	-	-	40.78	4.49	15:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/12/2015	31.19	26.92	-	-	-	40.63	4.27	14:15	-	-	-	-	-	-	-	-	-	-	-	8,400	
RW-1	05/21/2015	31.19	26.90	-	-	-	40.70	4.29	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/28/2015	31.19	27.11	-	-	-	40.60	4.08	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	06/02/2015	31.19	26.79	-	-	-	-	4.40	13:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	06/09/2015	31.19	26.57	-	-	-	-	4.62	10:27	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-1	06/16/2015	31.19	26.60	-	-	-	-	4.59	11:21	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	06/26/2015	31.19	26.52	-	-	-	40.50	4.67	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	07/01/2015	31.19	26.07	-	-	-	-	5.12	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/04/2015	31.19	26.30	-	-	-	40.66	4.89	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/05/2015	31.19	26.67	-	-	-	40.65	4.52	9:08	-	-	-	-	-	-	-	-	-	-	-	2,500	
RW-1	12/01/2015	31.19	26.77	-	-	-	40.67	4.42	13:41	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	12/02/2015	31.19	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,300	
RW-1	03/14/2016	31.19	26.95	-	-	-	40.65	4.24	8:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	03/15/2016	31.19	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,300	
RW-1	04/21/2016	31.19	27.82	-	-	-	40.69	3.37	9:47	-	-	-	-	-	-	-	-	-	-	-	2,600	
RW-1	05/23/2016	31.19	27.73	-	-	-	41.31	3.46	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/24/2016	31.19	27.89	-	-	-	40.65	3.30	10:15	-	-	-	-	-	-	-	-	-	-	-	1,500	
RW-1	06/21/2016	31.19	27.22	-	-	-	-	3.97	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	07/21/2016	31.19	27.08	-	-	-	-	4.11	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/24/2016	31.19	27.42	-	-	-	40.70	3.77	10:00	-	-	-	-	-	-	-	-	-	-	-	1,500	
RW-1	11/28/2016	31.19	27.68	-	-	-	41.93	3.51	8:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/29/2016	31.19	27.45	-	-	-	40.78	3.74	9:40	-	-	-	-	-	-	-	-	-	-	-	970	
RW-1	02/21/2017	31.19	28.11	-	-	-	40.80	3.08	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/22/2017	31.19	28.17	-	-	-	-	3.02	9:56	-	-	-	-	-	-	-	-	-	-	-	4,000	Sheen during purge
RW-1	03/29/2017	31.19	26.13	-	-	-	27.90	5.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/22/2017	31.19	26.81	-	-	-	-	4.38	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/24/2017	31.19	26.50	-	-	-	46.65	4.69	10:00	-	-	-	-	-	-	-	-	-	-	-	36,100	
RW-1	08/28/2017	31.19	32.83	-	-	-	40.71	-1.64	9:17	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/29/2017	31.19	32.73	-	-	-	40.70	-1.54	10:50	-	-	-	-	-	-	-	-	<0.66	-	11,300	15,300	
RW-1	11/28/2017	31.19	30.84	-	-	-	43.65	0.35	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/29/2017	31.19	30.57	-	-	-	40.75	0.62	11:05	-	-	-	-	-	-	-	-	-	-	4,920	6,640	
RW-1	02/20/2018	31.19	28.52	-	-	-	43.08	2.67	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/22/2018	31.19	28.87	-	-	-	40.75	2.32	9:15	-	-	-	-	-	-	-	-	-	-	6,850	5,200	
RW-1	05/22/2018	31.19	26.55	-	-	-	40.73	4.64	9:59	-	-	-	-	-	-	-	-	-	-	-	7,980	
RW-1	08/13/2018	31.19	26.22	-	-	-	40.62	4.97	11:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/15/2018	31.19	26.75	-	-	-	43.53	4.44	12:07	-	-	-	-	-	-	-	-	-	-	-	120,000	
RW-1	11/12/2018	31.19	26.22	-	-	-	40.74	4.97	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	11/14/2018	31.19	26.50	-	-	-	40.74	4.69	10:31	-	-	-	-	-	-	-	-	-	-	-	7,100	
RW-05S	07/08/2015	31.38	22.72	-	-	-	-	8.66	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/13/2015	31.38	22.57	-	-	-	26.03	8.81	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/20/2015	31.38	21.82	-	-	-	-	9.56	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/28/2015	31.38	21.77	-	-	-	26.07	9.61	11:21	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-05S	08/05/2015	31.38	21.87	-	-	-	26.03	9.51	9:27	-	-	-	-	-	-	-	-	-	-	-	6,900	
RW-05S	08/11/2015	31.38	21.95	-	-	-	26.06	9.43	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/18/2015	31.38	22.17	-	-	-	-	9.21	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/24/2015	31.38	22.42	-	-	-	-	8.96	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/02/2015	31.38	22.47	-	-	-	26.05	8.91	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/09/2015	31.38	22.60	-	-	-	26.07	8.78	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/17/2015	31.38	22.69	-	-	-	26.07	8.69	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/23/2015	31.38	22.69	-	-	-	-	8.69	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/28/2015	31.38	22.78	-	-	-	26.07	8.60	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	10/05/2015	31.38	22.71	-	-	-	26.20	8.67	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/10/2015	31.38	25.07	-	-	-	-	6.31	13:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	12/01/2015	33.47	25.36	-	-	-	28.15	8.11	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	12/02/2015	33.47	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17,000	
RW-05S	01/27/2016	33.47	26.23	-	-	-	-	7.24	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/15/2016	33.47	25.44	-	-	-	-	8.03	10:27	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/14/2016	33.47	25.21	-	-	-	28.20	8.26	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/15/2016	33.47	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15,000	
RW-05S	04/21/2016	33.47	20.05	-	-	-	27.95	13.42	11:13	-	-	-	-	-	-	-	-	-	-	-	19,000	
RW-05S	05/23/2016	33.47	25.78	-	-	-	27.97	7.69	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/24/2016	33.47	25.18	-	-	-	28.10	8.29	9:30	-	-	-	-	-	-	-	-	-	-	-	59,000	
RW-05S	06/21/2016	33.47	25.83	-	-	-	-	7.64	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/21/2016	33.47	25.91	-	-	-	-	7.56	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/24/2016	33.47	25.77	-	-	-	27.95	7.70	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/25/2016	33.47	24.14	-	-	-	-	9.33	10:05	-	-	-	-	-	-	-	-	-	-	-	66,000	
RW-05S	09/22/2016	33.47	23.80	-	-	-	24.48	9.67	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	10/20/2016	33.47	24.95	-	-	-	-	8.52	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/28/2016	33.47	DRY	-	-	-	23.75	-	9:51	-	-	-	-	-	-	-	-	-	-	-	-	Clogged drop-tube
RW-05S	11/29/2016	33.47	DRY	-	-	-	23.65	-	12:55	-	-	-	-	-	-	-	-	-	-	-	-	Clogged drop-tube
RW-05S	12/07/2016	33.47	DRY	-	-	-	23.33	-	12:35	-	-	-	-	-	-	-	-	-	-	-	-	Clogged drop-tube
RW-05S	12/08/2016	33.47	23.60	-	-	-	26.13	9.87	10:45	-	-	-	-	-	-	-	-	-	-	-	22,000	Pulled & cleaned drop-tube
RW-05S	12/22/2016	33.47	23.28	-	-	-	26.13	10.19	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	01/30/2017	33.47	25.78	-	-	-	27.98	7.69	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/21/2017	33.47	25.78	-	-	-	27.80	7.69	10:03	-	-	-	-	-	-	-	-	-	-	-	180,000	
RW-05S	03/29/2017	33.47	25.87	-	-	-	27.65	7.60	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/18/2017	33.47	25.78	-	-	-	27.67	7.69	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/22/2017	33.47	24.55	-	-	-	27.55	8.92	10:32	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-05S	05/23/2017	33.47	24.46	-	-	-	27.65	9.01	9:30	-	-	-	-	-	-	-	-	-	-	-	497,000	
RW-05S	06/22/2017	33.47	26.03	-	-	-	27.70	7.44	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/21/2017	33.47	24.40	-	-	-	27.65	9.07	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/28/2017	33.47	24.38	-	-	-	27.68	9.09	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/29/2017	33.47	23.83	-	-	-	-	9.64	14:15	-	-	-	-	-	-	-	-	<2.0	-	1,250	32,400	
RW-05S	09/20/2017	33.47	24.50	-	-	-	-	8.97	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	10/17/2017	33.47	24.79	-	-	-	-	8.68	12:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/28/2017	33.47	24.56	-	-	-	28.38	8.91	13:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	11/30/2017	33.47	25.05	-	-	-	27.65	8.42	12:00	-	-	-	-	-	-	-	-	-	-	189000	107,000	
RW-05S	12/19/2017	33.47	23.98	-	-	-	-	9.49	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	01/26/2018	33.47	24.58	-	-	-	-	8.89	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/20/2018	33.47	25.27	-	-	-	27.62	8.20	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/22/2018	33.47	25.32	-	-	-	27.81	8.15	10:41	-	-	-	-	-	-	-	-	-	-	3,180	25,200	
RW-05S	03/06/2018	33.47	24.63	-	-	-	-	8.84	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/29/2018	33.47	24.53	-	-	-	-	8.94	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/11/2018	33.47	24.58	-	-	-	-	8.89	11:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/23/2018	33.47	24.59	-	-	-	-	8.88	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/03/2018	33.47	24.57	-	-	-	-	8.90	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/03/2018	31.98	23.08	-	-	-	-	8.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/21/2018	31.98	22.83	-	-	-	26.05	9.15	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/22/2018	31.98	22.77	-	-	-	26.05	9.21	10:07	-	-	-	-	-	-	-	-	-	-	-	47,000	
RW-05S	06/12/2018	31.98	22.58	-	-	-	-	9.40	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	06/26/2018	31.98	22.14	-	-	-	26.12	9.84	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/02/2018	31.98	22.11	-	-	-	-	9.87	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/17/2018	31.98	22.13	-	-	-	-	9.85	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/30/2018	31.98	21.69	-	-	-	-	10.29	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/09/2018	31.98	21.53	-	-	-	-	10.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/13/2018	31.98	21.46	-	-	-	26.10	10.52	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/14/2018	31.98	21.42	-	-	-	28.09	10.56	13:03	-	-	-	-	-	-	-	-	-	-	-	85,000	
RW-05S	09/04/2018	31.98	21.27	-	-	-	-	10.71	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/21/2018	31.98	20.82	-	-	-	26.99	11.16	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/25/2018	31.98	23.33	-	-	-	-	-	13:34	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-05S	10/02/2018	31.98	22.43	-	-	-	27.60	-	10:00	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-05S	10/24/2018	31.98	27.33	-	-	-	27.72	-	9:50	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-05S	11/12/2018	33.48	22.76	-	-	-	-	10.72	10:24	-	-	-	-	-	-	-	-	-	-	-	15,000	
RW-05S	11/27/2018	33.48	22.63	-	-	-	-	10.85	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	12/11/2018	33.48	22.90	-	-	-	-	10.58	9:38	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-05S	12/27/2018	33.48	23.62	-	-	-	-	9.86	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	01/10/2019	33.48	22.97	-	-	-	-	10.51	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/08/2014	31.57	25.41	-	-	-	33.94	6.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/11/2014	31.57	25.16	-	-	-	-	6.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/15/2014	31.57	24.98	-	-	-	-	6.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/16/2014	31.57	24.84	24.80	0.04	NA	-	6.77	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducers in well for pump test
MW/RW-05	08/18/2014	31.57	24.88	24.80	0.08	NA	-	6.76	-	-	-	-	-	-	-	-	-	-	-	-	-	Transducers in well for pump test
MW/RW-05	08/25/2014	31.57	23.27	22.99	0.28	0.06	-	8.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/02/2014	31.57	23.62	23.07	0.55	0.31	-	8.43	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/15/2014	31.57	23.63	23.13	0.50	NR	-	8.38	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/19/2014	31.57	23.72	23.18	0.54	0.17	-	8.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/22/2014	31.57	23.25	22.97	0.28	0.06	-	8.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/24/2014	31.57	23.33	23.13	0.20	NR	-	8.42	-	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-05	10/01/2014	31.57	26.67	26.67	TRACE	TRACE	31.94	4.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/10/2014	31.57	26.58	26.57	0.01	TRACE	-	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/13/2014	31.57	26.73	26.71	0.02	TRACE	-	4.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/20/2014	31.57	26.91	26.89	0.02	TRACE	-	4.68	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/27/2014	31.57	27.07	27.06	0.01	TRACE	-	4.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/07/2014	31.57	26.93	26.88	0.05	TRACE	-	4.68	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/12/2014	31.57	26.96	26.94	0.02	TRACE	-	4.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/21/2014	31.57	27.74	27.73	0.01	TRACE	-	3.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/26/2014	31.57	27.28	27.25	0.03	TRACE	-	4.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/05/2014	31.57	27.18	27.16	0.02	TRACE	-	4.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/11/2014	31.57	26.93	-	0.00	TRACE	-	4.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/16/2014	31.57	26.87	26.82	0.05	TRACE	-	4.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/23/2014	31.57	26.95	26.92	0.03	TRACE	-	4.65	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/30/2014	31.57	27.35	27.32	0.03	TRACE	-	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/09/2015	31.57	27.36	27.32	0.04	TRACE	-	4.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/16/2015	31.57	27.06	27.02	0.04	TRACE	-	4.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/19/2015	31.57	27.08	27.03	0.05	TRACE	-	4.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/26/2015	31.57	26.99	26.95	0.04	TRACE	-	4.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	02/03/2015	31.57	27.73	27.71	0.02	-	32.04	3.86	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	02/09/2015	31.57	27.23	27.17	0.06	-	-	4.39	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	02/18/2015	31.57	27.25	27.21	0.04	-	-	4.36	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	02/24/2015	31.57	27.38	27.37	0.01	TRACE	-	4.20	13:51	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-05	03/04/2015	31.57	27.25	27.20	0.05	-	-	4.36	14:18	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	03/11/2015	31.57	27.07	26.97	0.10	-	-	4.59	12:57	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	03/18/2015	31.57	27.11	27.03	0.08	-	-	4.53	11:15	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	03/26/2015	31.57	26.81	26.73	0.08	-	31.90	4.83	12:06	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	04/02/2015	31.57	27.13	26.97	0.16	-	31.95	4.58	11:37	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	04/08/2015	31.57	27.49	27.20	0.29	-	32.00	4.33	9:20	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	04/13/2015	31.57	27.53	27.07	0.46	-	-	4.44	10:51	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	04/23/2015	31.57	27.41	26.55	0.86	-	32.00	4.92	12:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	04/29/2015	31.57	27.78	26.61	1.17	-	31.90	4.82	14:39	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	05/04/2015	31.57	28.03	26.56	1.47	-	-	4.83	11:51	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	05/11/2015	31.57	28.24	26.40	1.84	-	-	4.95	15:10	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	05/13/2015	31.57	28.75	26.84	1.91	1.50	-	4.50	13:20	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	05/21/2015	31.57	26.87	26.78	0.09	-	-	4.78	12:48	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	05/28/2015	31.57	28.45	27.00	1.45	-	32.00	4.39	11:54	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	06/02/2015	31.57	28.52	26.62	1.90	-	-	4.72	13:11	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	06/09/2015	31.57	28.67	26.12	2.55	-	-	5.14	10:55	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	06/16/2015	31.57	29.17	25.86	3.31	-	-	5.31	11:48	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	06/26/2015	31.57	28.51	25.55	2.96	-	32.00	5.66	10:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	07/01/2015	31.57	27.93	24.65	3.28	-	-	6.52	12:39	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	07/08/2015	31.57	27.50	23.75	3.75	-	-	7.36	8:00	-	-	-	-	-	-	-	-	-	-	-	-	Baildown test
MW/RW-05	07/13/2015	31.57	24.16	22.98	1.18	-	-	8.45	8:10	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-05	07/20/2015	31.57	23.03	22.69	0.34	0.09	-	8.84	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	07/28/2015	31.57	22.75	22.55	0.20	0.09	32.07	9.00	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/04/2015	31.57	22.92	22.63	0.29	0.06	-	8.90	12:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/11/2015	31.57	23.57	22.60	0.97	0.09	32.05	8.85	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/18/2015	31.57	23.74	23.02	0.72	0.38	-	8.46	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/21/2015	31.57	23.46	23.15	0.31	-	-	8.38	7:55	-	-	-	-	-	-	-	-	-	-	-	-	HIT event
MW/RW-05	08/24/2015	31.57	23.88	23.86	0.02	TRACE	-	7.71	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/02/2015	31.57	24.72	24.44	0.28	0.05	32.04	7.10	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/09/2015	31.57	24.60	24.39	0.21	0.06	32.05	7.15	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/17/2015	31.57	24.83	24.36	0.47	0.07	32.08	7.15	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/23/2015	31.57	24.88	24.70	0.18	0.02	-	6.85	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/28/2015	31.57	24.50	24.48	0.02	0.04	31.94	7.09	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	10/05/2015	31.57	24.41	24.31	0.10	0.05	32.01	7.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/10/2015	31.57	25.53	25.38	0.15	-	-	6.17	13:44	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	12/01/2015	32.20	26.16	25.98	0.18	-	-	6.20	13:56	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
MW/RW-05	01/27/2016	32.20	26.56	26.34	0.22	-	-	5.83	10:44	-	-	-	-	-	-	-	-	-	-	-	-	pump in well

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-05	02/15/2016	32.20	26.99	26.98	0.01	-	-	5.22	10:31	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	03/14/2016	32.20	25.65	25.65	TRACE	-	-	6.55	10:20	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	03/24/2016	32.20	29.70	-	-	-	-	2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	03/30/2016	32.20	29.68	-	-	-	-	2.52	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	04/21/2016	32.20	29.65	-	-	-	-	2.55	10:34	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/23/2016	32.20	29.80	-	-	-	-	2.40	11:27	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/24/2016	32.20	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62,000	pump in well
MW/RW-05	06/21/2016	32.20	29.79	-	-	-	-	2.41	10:50	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	07/21/2016	32.20	23.85	-	-	-	-	8.35	10:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/24/2016	32.20	21.60	-	-	-	-	10.60	11:11	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/25/2016	32.20	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16,000	pump in well
MW/RW-05	09/22/2016	32.20	29.00	-	-	-	-	3.20	11:40	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	10/20/2016	32.20	29.00	-	-	-	-	3.20	11:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	11/28/2016	32.20	NR	-	-	-	-	-	9:45	<0.5	<0.5	<0.5	<0.5	-	-	-	-	<1	-	-	7,300	Pump Obstruction at 26.80 ft during gauging
MW/RW-05	12/22/2016	32.20	28.22	-	-	-	-	3.98	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	01/30/2017	32.20	27.88	-	-	-	-	4.32	12:06	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	02/21/2017	32.20	28.70	-	-	-	-	3.50	12:51	-	-	-	-	-	-	-	-	-	-	-	5,200	pump in well
MW/RW-05	03/29/2017	32.20	27.90	-	-	-	-	4.30	11:55	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	04/18/2017	32.20	28.50	-	-	-	-	3.70	12:00	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/18/2017	32.20	18.95	-	-	-	-	13.25	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/22/2017	32.20	23.24	-	-	-	-	8.96	13:02	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	05/23/2017	32.20	23.93	-	-	-	-	8.27	9:45	-	-	-	-	-	-	-	-	-	-	-	981	pump in well
MW/RW-05	06/22/2017	32.20	28.50	-	-	-	-	3.70	12:28	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	07/06/2017	32.20	28.50	-	-	-	-	3.70	13:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	07/19/2017	32.20	28.30	-	-	-	-	3.90	12:15	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/21/2017	32.20	28.35	-	-	-	-	3.85	10:05	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/28/2017	32.20	23.32	-	-	-	-	8.88	9:30	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/31/2017	32.20	23.60	-	-	-	31.33	8.60	9:36	-	-	-	-	-	-	-	-	-	-	-	31,800	pump in well
MW/RW-05	09/20/2017	32.20	28.10	-	-	-	-	4.10	10:51	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	10/17/2017	32.20	27.80	-	-	-	-	4.40	12:10	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	11/28/2017	32.20	NR	-	-	-	25.40	-	11:50	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	27,900	6,860	pump in well
MW/RW-05	01/26/2018	32.20	18.35	-	-	-	-	13.85	12:50	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	02/20/2018	32.20	OBST	-	-	-	25.30	-	11:20	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	02/22/2018	32.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<83	273	pump in well
MW/RW-05	03/06/2018	32.20	24.55	-	-	-	-	7.65	12:31	-	-	-	-	-	-	-	-	-	-	-	-	pump in well

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
MW/RW-05	03/29/2018	32.20	27.10	-	-	-	-	5.10	9:58	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	04/11/2018	32.20	27.46	-	-	-	-	4.74	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	04/23/2018	32.20	27.38	-	-	-	-	4.82	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	05/03/2018	32.20	27.18	-	-	-	-	5.02	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	05/21/2018	32.20	26.29	-	-	-	31.40	5.91	13:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	05/22/2018	32.20	26.16	-	-	-	31.26	6.04	10:10	-	-	-	-	-	-	-	-	-	-	-	50,300	
MW/RW-05	06/12/2018	32.20	26.05	-	-	-	-	6.15	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	06/26/2018	32.20	24.95	-	-	-	31.34	7.25	9:38	-	-	-	-	-	-	-	-	-	-	27,500 B	51,900	
MW/RW-05	07/02/2018	32.20	24.83	-	-	-	-	7.37	10:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	07/17/2018	32.20	24.96	-	-	-	-	7.24	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	07/30/2018	32.20	23.31	-	-	-	33.32	8.89	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/09/2018	32.20	23.15	-	-	-	-	9.05	-	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/13/2018	32.20	23.37	-	-	-	-	8.83	12:13	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	08/15/2018	32.20	27.44	-	-	-	-	4.76	9:08	-	-	-	-	-	-	-	-	-	-	-	26,000	pump in well
MW/RW-05	09/04/2018	32.20	23.58	-	-	-	-	8.62	9:50	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	09/25/2018	32.20	23.46	-	-	-	-	8.74	13:35	-	-	-	-	-	-	-	-	-	-	-	-	pump in well
MW/RW-05	10/02/2018	32.20	23.18	-	-	-	-	9.02	12:16	-	-	-	-	-	-		-	-	-	-	-	pump in well
MW/RW-05	10/24/2018	32.20	23.50	-	-	-	-	8.70	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	11/12/2018	33.47	23.27	-	-	-	-	10.20	14:00	<1	<1	<1	<3	-	-	-	-	<20	-	-	7,000	
MW/RW-05	11/27/2018	33.47	23.22	-	-	-	-	10.25	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/11/2018	33.47	23.34	-	-	-	-	10.13	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	12/27/2018	33.47	23.35	-	-	-	-	10.12	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/10/2019	33.47	23.50	-	-	-	-	9.97	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/08/2015	30.97	DRY	-	-	-	24.64	-	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/13/2015	30.97	DRY	-	-	-	24.65	-	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/20/2015	30.97	DRY	-	-	-	-	-	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/28/2015	30.97	DRY	-	-	-	24.71	-	10:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/04/2015	30.97	DRY	-	-	-	24.64	-	13:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/11/2015	30.97	DRY	-	-	-	-	-	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/18/2015	30.97	24.62	-	-	-	-	6.35	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/24/2015	30.97	24.56	-	-	-	-	6.41	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	09/02/2015	30.97	NR	24.51	-	0.01	24.69	-	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	09/09/2015	30.97	NR	24.50	-	0.01	24.69	-	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	09/17/2015	30.97	NR	24.54	-	-	24.65	-	10:50	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
RW-25S	09/23/2015	30.97	24.62	24.50	0.12	0.01	24.62	6.46	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	09/28/2015	30.97	NR	24.57	TRACE	TRACE	24.65	-	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	10/05/2015	30.97	NR	24.54	-	TRACE	24.59	-	11:27	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-25S	11/10/2015	30.97	NR	26.28	-	-	26.38	-	13:36	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
RW-25S	12/01/2015	32.70	26.34	26.27	0.07	-	26.36	6.42	11:55	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
RW-25S	01/27/2016	32.70	26.30	26.22	0.08	-	-	6.47	11:04	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
RW-25S	02/15/2016	32.70	25.59	25.42	0.17	-	-	7.26	10:44	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
RW-25S	03/14/2016	32.70	24.45	24.44	0.01	-	-	8.26	13:00	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
RW-25S	04/21/2016	32.70	25.51	25.50	0.01	-	-	7.20	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/23/2016	32.70	25.38	-	-	-	26.28	7.32	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/24/2016	32.70	25.43	25.41	0.02	-	-	7.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	06/21/2016	32.70	25.38	-	-	-	-	7.32	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/21/2016	32.70	25.39	-	-	-	-	7.31	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/24/2016	32.70	25.35	-	-	-	25.62	7.35	10:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/25/2016	32.70	24.97	-	-	-	25.61	7.73	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
RW-25S	08/30/2016	32.70	25.86	-	-	-	27.36	6.84	11:35	-	-	-	-	-	-	-	-	-	-	-	470,000	
RW-25S	09/22/2016	32.70	26.08	-	-	-	26.38	6.62	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	10/20/2016	32.70	26.10	-	-	-	-	6.60	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	11/28/2016	32.70	25.57	-	-	-	-	7.13	9:41	0.7 J	1	2	5	-	-	-	-	4 J	-	-	1,000,000	
RW-25S	12/22/2016	32.70	26.03	-	-	-	26.27	6.67	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	01/30/2017	32.70	25.37	-	-	-	25.62	7.33	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/21/2017	32.70	25.35	-	-	-	25.58	7.35	10:11	-	-	-	-	-	-	-	-	-	-	-	250,000	
RW-25S	03/29/2017	31.92	27.10	-	-	-	27.17	4.82	12:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	04/18/2017	31.92	25.37	-	-	-	25.55	6.55	11:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/22/2017	31.92	23.15	-	-	-	25.60	8.77	10:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/23/2017	31.92	22.44	-	-	-	25.60	9.48	11:25	-	-	-	-	-	-	-	-	-	-	-	147,000	
RW-25S	07/19/2017	31.92	25.34	-	-	-	25.43	6.58	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/21/2017	31.92	24.38	-	-	-	25.45	7.54	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/28/2017	31.92	25.12	-	-	-	25.42	6.80	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/31/2017	31.92	25.34	-	-	-	25.43	6.58	9:26	-	-	-	-	-	-	-	-	<0.66	-	1,640	32,200	
RW-25S	09/20/2017	31.92	DRY	-	-	-	25.33	-	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	10/03/2017	31.92	DRY	-	-	-	25.33	-	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	10/17/2017	31.92	DRY	-	-	-	25.43	-	11:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	11/02/2017	31.92	DRY	-	-	-	25.33	-	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	11/28/2017	31.92	25.41	-	-	-	25.42	6.51	14:05	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-25S	12/05/2017	31.92	DRY	-	-	-	25.33	-	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	01/03/2018	31.92	DRY	-	-	-	25.33	-	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	01/26/2018	31.92	DRY	-	-	-	25.33	-	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/01/2018	31.92	DRY	-	-	-	25.33	-	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/20/2018	31.92	23.39	-	-	-	25.41	8.53	12:14	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-25S	02/22/2018	31.92	23.69	-	-	-	25.48	8.23	14:03	-	-	-	-	-	-	-	-	-	-	25,900	62,600	
RW-25S	03/06/2018	31.92	24.75	-	-	-	-	7.17	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	03/29/2018	31.92	DRY	-	-	-	25.42	-	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	04/11/2018	31.92	DRY	-	-	-	25.43	-	9:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	04/23/2018	31.92	23.15	-	-	-	-	8.77	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/03/2018	31.92	23.86	-	-	-	-	8.06	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/03/2018	31.12	23.01	-	-	-	-	8.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/21/2018	31.12	23.73	-	-	-	24.58	7.39	9:53	-	-	-	-	-	-	-	-	-	-	-	77,600	
RW-25S	06/12/2018	31.12	24.30	-	-	-	-	6.82	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	06/26/2018	31.12	24.19	-	-	-	24.51	6.93	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/02/2018	31.12	24.25	-	-	-	-	6.87	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/17/2018	31.12	24.37	-	-	-	-	6.75	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/30/2018	31.12	21.73	-	-	-	-	9.39	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/09/2018	31.12	22.20	-	-	-	-	8.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/13/2018	31.12	22.32	-	-	-	24.56	8.80	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/14/2018	31.12	22.31	-	-	-	26.43	8.81	10:10	-	-	-	-	-	-	-	-	-	-	-	160,000	
RW-25S	09/04/2018	31.12	21.27	-	-	-	-	9.85	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	09/25/2018	31.12	25.12	-	-	-	-	-	13:24	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-25S	10/02/2018	31.12	22.27	-	-	-	26.02	-	10:20	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-25S	10/24/2018	31.12	25.60	-	-	-	25.62	-	9:59	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-25S	11/12/2018	32.44	22.65	-	-	-	-	9.79	10:30	0.8 J	<0.2	0.3 J	<0.5	-	-	-	-	<4	-	-	110,000	See Notes
RW-25S	11/27/2018	32.44	21.80	-	-	-	-	10.64	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	12/11/2018	32.44	22.33	-	-	-	-	10.11	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	12/27/2018	32.44	22.28	-	-	-	-	10.16	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	01/10/2019	32.44	22.74	-	-	-	-	9.70	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/08/2015	31.35	26.40	-	-	-	-	4.95	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/13/2015	31.35	25.20	-	-	-	26.66	6.15	9:11	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/20/2015	31.35	24.14	-	-	-	-	7.21	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/28/2015	31.35	23.92	-	-	-	26.73	7.43	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/04/2015	31.35	23.97	-	-	-	26.67	7.38	13:21	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/05/2015	31.35	24.98	-	-	-	26.66	6.37	8:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/05/2015	31.35	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,300	
RW-28S	08/11/2015	31.35	24.03	-	-	-	26.65	7.32	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/18/2015	31.35	24.13	-	-	-	-	7.22	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/24/2015	31.35	24.18	-	-	-	-	7.17	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	09/02/2015	31.35	24.31	-	-	-	26.68	7.04	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	09/09/2015	31.35	24.41	-	-	-	26.65	6.94	9:58	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-28S	09/17/2015	31.35	24.55	-	-	-	26.69	6.80	9:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	09/23/2015	31.35	24.58	-	-	-	-	6.77	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	09/28/2015	31.35	24.65	-	-	-	26.60	6.70	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	10/05/2015	31.35	24.60	-	-	-	26.68	6.75	8:58	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/10/2015	31.35	26.71	-	-	-	-	4.64	12:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	12/01/2015	32.99	26.91	-	-	-	28.28	6.08	12:34	-	-	-	-	-	-	-	-	-	-	-	2,500	
RW-28S	01/27/2016	32.99	27.09	-	-	-	-	5.90	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/15/2016	32.99	25.86	-	-	-	-	7.13	9:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	03/14/2016	32.99	25.74	-	-	-	28.30	7.25	12:15	-	-	-	-	-	-	-	-	-	-	-	790	
RW-28S	04/21/2016	32.99	26.84	-	-	-	28.30	6.15	10:40	-	-	-	-	-	-	-	-	-	-	-	2,300	
RW-28S	05/05/2016	32.99	25.65	-	-	-	28.32	7.34	12:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/23/2016	32.99	25.82	-	-	-	28.32	7.17	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/24/2016	32.99	25.82	-	-	-	28.32	7.17	12:15	-	-	-	-	-	-	-	-	-	-	-	3,300	
RW-28S	06/21/2016	32.99	25.65	-	-	-	-	7.34	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/21/2016	32.99	25.71	-	-	-	-	7.28	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/24/2016	32.99	25.62	-	-	-	28.65	7.37	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/25/2016	32.99	26.56	-	-	-	-	6.43	10:55	-	-	-	-	-	-	-	-	-	-	-	2,300	
RW-28S	09/22/2016	32.99	25.82	-	-	-	28.35	7.17	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	10/20/2016	32.99	25.79	-	-	-	-	7.20	10:58	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/28/2016	32.99	25.80	-	-	-	28.61	7.19	10:51	-	-	-	-	-	-	-	-	-	-	-	1,400	
RW-28S	12/22/2016	32.99	26.05	-	-	-	28.37	6.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	01/30/2017	32.99	25.97	-	-	-	28.35	7.02	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/21/2017	32.99	26.02	-	-	-	28.30	6.97	10:18	-	-	-	-	-	-	-	-	-	-	-	39,000	
RW-28S	03/29/2017	32.99	25.86	-	-	-	28.45	7.13	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	04/18/2017	32.99	26.58	-	-	-	28.33	6.41	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/22/2017	32.99	25.85	-	-	-	28.35	7.14	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/23/2017	32.99	24.24	-	-	-	28.30	8.75	11:05	-	-	-	-	-	-	-	-	-	-	-	24,400	
RW-28S	06/22/2017	32.99	27.10	-	-	-	28.20	5.89	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/19/2017	32.99	27.00	-	-	-	28.12	5.99	11:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/21/2017	32.99	25.88	-	-	-	27.94	7.11	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/28/2017	32.99	26.90	-	-	-	27.95	6.09	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/31/2017	32.99	26.59	-	-	-	28.00	6.40	9:10	-	-	-	-	-	-	-	-	<0.66	-	1,650	8,370	
RW-28S	09/20/2017	32.99	27.03	-	-	-	-	5.96	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	10/17/2017	32.99	27.46	-	-	-	-	5.53	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/28/2017	32.99	DRY	-	-	-	27.95	-	14:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/29/2017	32.99	27.28	-	-	-	28.02	5.71	15:30	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-28S	12/19/2017	32.99	27.52	-	-	-	-	5.47	10:40	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-28S	01/26/2018	32.99	27.83	-	-	-	-	5.16	11:41	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/20/2018	32.99	25.96	-	-	-	27.85	7.03	12:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/22/2018	32.99	26.07	-	-	-	27.81	6.92	9:09	-	-	-	-	-	-	-	-	-	-	1,530	923	
RW-28S	03/06/2018	32.99	26.27	-	-	-	-	6.72	11:59	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	03/29/2018	32.99	25.69	-	-	-	-	7.30	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	04/11/2018	32.99	26.37	-	-	-	-	6.62	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	04/23/2018	32.99	26.20	-	-	-	-	6.79	9:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/03/2018	32.99	25.98	-	-	-	-	7.01	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/03/2018	31.35	24.34	-	-	-	-	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/21/2018	31.35	23.10	-	-	-	26.28	8.25	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/22/2018	31.35	23.08	-	-	-	26.28	8.27	9:40	-	-	-	-	-	-	-	-	-	-	-	846	
RW-28S	06/12/2018	31.35	23.63	-	-	-	-	7.72	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	06/26/2018	31.35	DRY	-	-	-	26.31	-	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/02/2018	31.35	24.22	-	-	-	-	7.13	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/17/2018	31.35	24.86	-	-	-	-	6.49	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/30/2018	31.35	DRY	-	-	-	-	-	11:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/09/2018	31.35	23.84	-	-	-	-	7.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/13/2018	31.55	23.99	-	-	-	26.16	7.56	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/14/2018	31.55	23.88	-	-	-	26.30	7.67	10:01	-	-	-	-	-	-	-	-	-	-	-	460	
RW-28S	09/04/2018	31.55	23.46	-	-	-	-	8.09	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	09/25/2018	31.55	22.47	-	-	-	-	9.08	13:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	10/02/2018	31.55	22.58	-	-	-	-	8.97	11:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	10/24/2018	31.55	23.95	-	-	-	-	7.60	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	11/12/2018	31.55	22.45	-	-	-	26.41	9.10	10:15	-	-	-	-	-	-		-	-	-	-	-	
RW-28S	11/14/2018	31.55	21.98	-	-	-	26.41	9.57	9:41	-	-	-	-	-	-	-	-	-	-	-	340	
RW-28S	11/27/2018	31.55	21.93	-	-	-	-	9.62	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	12/11/2018	31.55	23.32	-	-	-	-	8.23	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	12/27/2018	31.55	22.28	-	-	-	-	9.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	01/10/2019	31.55	22.99	-	-	-	-	8.56	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	06/26/2015	31.32	DRY	-	-	-	28.40	-	9:28	-	-	-	-	-	-	-	-	-	-	-	-	DRY
RW-30S	07/01/2015	31.32	24.02	-	-	-	-	7.30	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/08/2015	31.32	25.39	-	-	-	-	5.93	10:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/13/2015	31.32	26.60	-	-	-	28.40	4.72	9:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/20/2015	31.32	26.07	-	-	-	-	5.25	9:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/28/2015	31.32	26.04	-	-	-	28.48	5.28	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/04/2015	31.32	26.07	-	-	-	28.40	5.25	13:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/05/2015	31.32	26.05	-	-	-	28.42	5.27	8:20	-	-	-	-	-	-	-	-	-	-	-	890	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-30S	08/11/2015	31.32	26.42	-	-	-	28.44	4.90	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/18/2015	31.32	26.31	-	-	-	-	5.01	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/24/2015	31.32	26.28	-	-	-	-	5.04	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/02/2015	31.32	26.37	26.36	0.01	TRACE	28.45	4.96	9:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/09/2015	31.32	26.38	-	-	-	28.43	4.94	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/17/2015	31.32	26.52	-	-	-	28.46	4.80	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/23/2015	31.32	26.47	-	-	-	-	4.85	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/28/2015	31.32	26.42	-	-	-	28.41	4.90	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	10/05/2015	31.32	26.20	-	-	-	28.41	5.12	9:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	11/10/2015	31.32	28.73	-	-	-	-	2.59	12:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	12/01/2015	33.63	28.99	-	-	-	30.54	4.64	12:36	-	-	-	-	-	-	-	-	-	-	-	1,300	
RW-30S	01/27/2016	33.63	29.08	-	-	-	-	4.55	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	02/15/2016	33.63	29.44	-	-	-	-	4.19	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	03/14/2016	33.63	28.78	-	-	-	30.60	4.85	12:10	-	-	-	-	-	-	-	-	-	-	-	61,000	
RW-30S	04/21/2016	33.63	28.95	-	-	-	29.03	4.68	10:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	04/27/2016	33.63	29.02	-	-	-	29.12	4.61	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/05/2016	33.63	29.05	-	-	-	29.10	4.58	12:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/23/2016	33.63	29.02	-	-	-	29.70	4.61	11:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/25/2016	33.63	DRY	-	-	-	29.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
RW-30S	06/21/2016	33.63	26.45	-	-	-	-	7.18	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/21/2016	33.63	26.40	-	-	-	-	7.23	9:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/24/2016	33.63	24.65	-	-	-	29.37	8.98	11:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/25/2016	33.63	28.88	-	-	-	29.20	4.75	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
RW-30S	08/30/2016	33.63	29.65	-	-	-	29.79	3.98	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
RW-30S	09/22/2016	33.63	26.60	-	-	-	29.35	7.03	12:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	10/20/2016	33.63	26.80	-	-	-	-	6.83	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	11/28/2016	33.63	28.64	-	-	-	30.35	4.99	10:48	-	-	-	-	-	-	-	-	-	-	-	1,700	
RW-30S	12/22/2016	33.63	27.37	-	-	-	29.75	6.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	01/30/2017	33.63	26.58	-	-	-	29.10	7.05	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	02/21/2017	33.63	28.99	-	-	-	28.70	4.64	10:15	-	-	-	-	-	-	-	-	-	-	-	17,000	
RW-30S	03/29/2017	33.12	26.69	-	-	-	28.95	6.43	12:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	04/18/2017	33.12	27.39	-	-	-	28.97	5.73	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/22/2017	33.12	28.24	-	-	-	28.81	4.88	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/23/2017	33.12	28.28	-	-	-	28.87	4.84	10:45	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-30S	06/07/2017	33.12	24.47	-	-	-	28.88	8.65	12:55	-	-	-	-	-	-	-	-	-	-	-	3,780	
RW-30S	06/22/2017	33.12	26.45	-	-	-	28.80	6.67	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/19/2017	33.12	28.18	-	-	-	28.90	4.94	11:31	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-30S	08/21/2017	33.12	DRY	-	-	-	28.83	-	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/28/2017	33.12	DRY	-	-	-	28.75	-	11:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/31/2017	33.12	DRY	-	-	-	28.80	-	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/05/2017	33.12	DRY	-	-	-	28.78	-	13:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/20/2017	33.12	DRY	-	-	-	28.78	-	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	10/03/2017	33.12	DRY	-	-	-	28.78	-	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	10/17/2017	33.12	DRY	-	-	-	28.83	-	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	11/02/2017	33.12	28.72	-	-	-	-	4.40	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	11/28/2017	33.12	DRY	-	-	-	28.74	-	13:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	12/05/2017	33.12	DRY	-	-	-	28.93	-	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	01/03/2018	33.12	DRY	-	-	-	28.93	-	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	01/26/2018	33.12	DRY	-	-	-	28.93	-	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	02/01/2018	33.12	DRY	-	-	-	28.93	-	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	02/20/2018	33.12	28.64	-	-	-	28.92	4.48	12:31	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-30S	02/21/2018	33.12	28.78	-	-	-	28.90	4.34	11:15	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-30S	03/06/2018	33.12	28.87	-	-	-	-	4.25	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	03/29/2018	33.12	28.17	-	-	-	-	4.95	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	04/11/2018	33.12	DRY	-	-	-	28.94	-	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	04/23/2018	33.12	DRY	-	-	-	28.94	-	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/03/2018	33.12	DRY	-	-	-	28.97	-	9:21	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/03/2018	31.32	DRY	-	-	-	26.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/21/2018	31.32	25.52	-	-	-	26.85	5.80	10:51	-	-	-	-	-	-	-	-	-	-	-	691	
RW-30S	06/12/2018	31.32	25.25	-	-	-	-	6.07	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	06/26/2018	31.32	26.07	-	-	-	26.81	5.25	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/02/2018	31.32	26.28	-	-	-	-	5.04	11:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/17/2018	31.32	26.43	-	-	-	-	4.89	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/30/2018	31.32	25.65	-	-	-	-	5.67	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/09/2018	31.32	25.68	-	-	-	-	5.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/14/2018	31.32	25.28	-	-	-	26.90	6.04	9:55	-	-	-	-	-	-	-	-	-	-	-	210	
RW-30S	09/04/2018	31.32	24.90	-	-	-	-	6.42	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/25/2018	31.32	24.23	-	-	-	-	7.09	13:17	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	10/02/2018	31.32	24.18	-	-	-	-	7.14	11:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	10/24/2018	31.32	25.79	-	-	-	-	5.53	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	11/12/2018	31.32	23.92	-	-	-	26.89	7.40	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	11/14/2018	31.32	23.88	-	-	-	26.89	7.44	9:38	-	-	-	-	-	-	-	-	-	-	-	240	
RW-30S	11/27/2018	31.32	23.53	-	-	-	-	7.79	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	12/11/2018	31.32	24.73	-	-	-	-	6.59	11:23	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-30S	12/27/2018	31.32	24.53	-	-	-	-	6.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	01/10/2019	31.32	24.44	-	-	-	-	6.88	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/08/2015	31.80	22.48	-	-	-	-	9.32	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/13/2015	31.80	22.03	-	-	-	26.20	9.77	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/20/2015	31.80	21.77	-	-	-	-	10.03	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/28/2015	31.44	21.46	-	-	-	25.90	9.98	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/04/2015	31.44	21.55	-	-	-	25.82	9.89	13:11	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/05/2015	31.44	21.57	-	-	-	25.82	9.87	9:05	-	-	-	-	-	-	-	-	-	-	-	7,000	
RW-116S	08/11/2015	31.44	21.72	-	-	-	24.88	9.72	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/18/2015	31.44	21.79	-	-	-	-	9.65	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/24/2015	31.44	21.90	-	-	-	-	9.54	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/02/2015	31.44	22.06	-	-	-	25.86	9.38	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/09/2015	31.44	22.18	-	-	-	25.89	9.26	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/17/2015	31.44	22.31	-	-	-	25.89	9.13	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/23/2015	31.44	22.35	-	-	-	-	9.09	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/28/2015	31.44	22.42	-	-	-	25.84	9.02	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/05/2015	31.44	22.47	-	-	-	25.84	8.97	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	11/10/2015	31.44	25.05	-	-	-	-	6.39	13:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	12/01/2015	33.78	25.73	-	-	-	28.20	8.05	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	12/02/2015	33.78	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,000	
RW-116S	01/27/2016	33.78	26.53	-	-	-	-	7.25	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/15/2016	33.78	26.53	-	-	-	-	7.25	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	03/14/2016	33.78	26.26	-	-	-	28.18	7.52	11:35	-	-	-	-	-	-	-	-	-	-	-	7,600	
RW-116S	04/21/2016	33.78	26.33	-	-	-	28.25	7.45	11:18	-	-	-	-	-	-	-	-	-	-	-	3,000	
RW-116S	05/23/2016	33.78	26.03	-	-	-	28.25	7.75	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/24/2016	33.78	26.32	-	-	-	28.90	7.46	9:45	-	-	-	-	-	-	-	-	-	-	-	230,000	
RW-116S	06/21/2016	33.78	26.06	-	-	-	-	7.72	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/21/2016	33.78	26.02	-	-	-	-	7.76	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/24/2016	33.78	26.02	-	-	-	27.76	7.76	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/25/2016	33.78	25.10	-	-	-	-	8.68	10:15	-	-	-	-	-	-	-	-	-	-	-	6,200	
RW-116S	09/22/2016	33.78	26.07	-	-	-	27.82	7.71	12:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/20/2016	33.78	26.07	-	-	-	-	7.71	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	11/28/2016	33.78	26.09	-	-	-	28.05	7.69	11:01	-	-	-	-	-	-	-	-	-	-	-	59,000	
RW-116S	12/22/2016	33.78	26.06	-	-	-	27.85	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	01/30/2017	33.78	26.06	-	-	-	27.80	7.72	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/21/2017	33.78	26.06	-	-	-	27.17	7.72	10:05	-	-	-	-	-	-	-	-	-	-	-	510,000	
RW-116S	03/28/2017	33.15	26.02	-	-	-	27.05	7.13	12:00	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-116S	04/18/2017	33.15	26.02	-	-	-	27.08	7.13	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/22/2017	33.15	25.60	-	-	-	27.10	7.55	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/23/2017	33.15	24.45	-	-	-	27.07	8.70	11:55	-	-	-	-	-	-	-	-	-	-	-	323,000	
RW-116S	06/22/2017	33.15	26.02	-	-	-	27.05	7.13	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/21/2017	33.15	26.20	-	-	-	27.07	6.95	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/28/2017	33.15	26.24	-	-	-	27.06	6.91	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/31/2017	33.15	26.19	-	-	-	27.07	6.96	9:55	-	-	-	-	-	-	-	-	<0.66	-	3,110	29,900	
RW-116S	09/20/2017	33.15	26.18	-	-	-	-	6.97	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/17/2017	33.15	25.83	-	-	-	-	7.32	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	11/28/2017	33.15	25.68	-	-	-	27.12	7.47	14:26	-	-	-	-	-	-	-	-	-	-	181,000	146,000	
RW-116S	11/30/2017	33.15	25.78	-	-	-	27.02	7.37	12:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	12/19/2017	33.15	26.09	-	-	-	-	7.06	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	01/26/2018	33.15	25.66	-	-	-	-	7.49	11:51	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/20/2018	33.15	25.93	-	-	-	27.03	7.22	12:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/22/2018	33.15	26.02	-	-	-	27.03	7.13	13:23	-	-	-	-	-	-	-	-	-	-	5,040	28,600	
RW-116S	03/06/2018	33.15	26.45	-	-	-	-	6.70	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	03/29/2018	33.15	26.22	-	-	-	-	6.93	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	04/11/2018	33.15	26.08	-	-	-	-	7.07	8:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	04/23/2018	33.15	25.91	-	-	-	-	7.24	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/03/2018	33.15	25.72	-	-	-	-	7.43	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/03/2018	31.61	24.54	-	-	-	-	7.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/21/2018	31.61	24.38	-	-	-	25.90	7.23	10:14	-	-	-	-	-	-	-	-	-	-	-	61,300	
RW-116S	06/12/2018	31.61	22.53	-	-	-	-	9.08	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	06/26/2018	31.61	22.25	-	-	-	25.61	9.36	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/02/2018	31.61	22.20	-	-	-	-	9.41	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/17/2018	31.61	22.26	-	-	-	-	9.35	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/30/2018	31.61	21.91	-	-	-	-	9.70	10:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/09/2018	31.61	21.58	-	-	-	-	10.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/13/2018	31.61	21.51	-	-	-	23.87	10.10	11:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/14/2018	31.61	21.46	-	-	-	27.41	10.15	10:49	-	-	-	-	-	-	-	-	-	-	-	15,000	
RW-116S	09/04/2018	31.61	21.45	-	-	-	-	10.16	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/25/2018	31.61	21.19	-	-	-	-	10.42	13:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/02/2018	31.61	21.18	-	-	-	25.89	10.43	12:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/09/2018	31.61	21.30	-	-	-	25.90	10.31	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	10/24/2018	31.61	26.80	-	-	-	27.80	-	9:51	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-116S	11/12/2018	33.45	23.18	-	-	-	-	10.27	10:22	-	-	-	-	-	-		-	-	-	-	3,300	
RW-116S	11/27/2018	33.45	22.75	-	-	-	-	10.70	9:37	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-116S	12/11/2018	33.45	22.97	-	-	-	-	10.48	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	12/27/2018	33.45	22.93	-	-	-	-	10.52	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	01/10/2019	33.45	23.31	-	-	-	-	10.14	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/08/2015	31.81	22.53	-	-	-	-	9.28	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/13/2015	31.81	22.27	-	-	-	24.25	9.54	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/20/2015	31.81	21.97	-	-	-	-	9.84	9:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/28/2015	31.81	21.86	-	-	-	24.34	9.95	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/04/2015	31.81	21.94	-	-	-	24.23	9.87	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/05/2015	31.81	21.96	-	-	-	24.27	9.85	9:20	-	-	-	-	-	-	-	-	-	-	-	6,600	
RW-117S	08/11/2015	31.81	22.06	-	-	-	24.30	9.75	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/18/2015	31.81	22.16	-	-	-	-	9.65	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/24/2015	31.81	22.25	-	-	-	-	9.56	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/02/2015	31.81	22.40	-	-	-	24.30	9.41	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/09/2015	31.81	22.51	22.51	TRACE	TRACE	24.31	9.30	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/17/2015	31.81	22.61	-	-	-	24.31	9.20	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/23/2015	31.81	22.61	-	-	-	-	9.20	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/28/2015	31.81	22.66	-	-	-	24.29	9.15	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	10/05/2015	31.81	22.76	-	-	-	24.30	9.05	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	11/10/2015	31.81	25.29	-	-	-	-	6.52	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	12/01/2015	33.73	25.72	-	-	-	26.13	8.01	11:16	-	-	-	-	-	-	-	-	-	-	-	13,000	
RW-117S	01/27/2016	33.73	26.06	-	-	-	-	7.67	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	02/15/2016	33.73	26.05	-	-	-	-	7.68	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	03/14/2016	33.73	26.06	-	-	-	26.09	7.67	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	04/21/2016	33.73	25.74	-	-	-	26.07	7.99	11:38	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	04/27/2016	33.73	25.75	-	-	-	26.08	7.98	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/05/2016	33.73	25.79	-	-	-	26.05	7.94	12:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/23/2016	33.73	25.70	-	-	-	26.05	8.03	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/24/2016	33.73	DRY	-	-	-	26.07	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	06/21/2016	33.73	25.70	-	-	-	-	8.03	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/21/2016	33.73	25.67	-	-	-	-	8.06	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/24/2016	33.73	DRY	-	-	-	26.08	DRY	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/25/2016	33.73	25.52	-	-	-	26.08	8.21	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
RW-117S	08/30/2016	33.73	25.97	-	-	-	26.77	7.76	11:10	-	-	-	-	-	-	-	-	-	-	-	4,400	
RW-117S	09/22/2016	33.73	25.71	-	-	-	26.18	8.02	12:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	10/20/2016	33.73	25.72	-	-	-	-	8.01	11:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	11/28/2016	33.73	25.75	-	-	-	26.77	7.98	10:57	-	-	-	-	-	-	-	-	-	-	-	2,800	
RW-117S	12/22/2016	33.73	25.63	-	-	-	26.15	8.10	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-117S	01/30/2017	33.73	25.72	-	-	-	26.15	8.01	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	02/21/2017	33.73	25.71	-	-	-	26.13	8.02	10:07	-	-	-	-	-	-	-	-	-	-	-	4,300	
RW-117S	03/29/2017	33.16	DRY	-	-	-	25.67	-	12:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	04/18/2017	33.16	DRY	-	-	-	25.67	-	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/22/2017	33.16	DRY	-	-	-	25.64	-	10:30	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-117S	06/22/2017	33.16	DRY	-	-	-	25.68	-	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/19/2017	33.16	DRY	-	-	-	25.67	-	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/21/2017	33.16	25.56	-	-	-	25.69	7.60	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/28/2017	33.16	24.07	-	-	-	25.68	9.09	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/31/2017	33.16	24.08	-	-	-	25.68	9.08	9:20	-	-	-	-	-	-	-	-	<0.66	-	3,260	39,200	
RW-117S	09/20/2017	33.16	24.15	-	-	-	-	9.01	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	10/17/2017	33.16	24.47	-	-	-	-	8.69	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	11/28/2017	33.16	25.78	-	-	-	25.69	7.38	14:30	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-117S	12/19/2017	33.16	25.56	-	-	-	-	7.60	9:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	01/26/2018	33.16	25.60	-	-	-	-	7.56	11:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	02/20/2018	33.16	25.59	-	-	-	25.65	7.57	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	02/21/2018	33.16	25.60	-	-	-	25.66	7.56	11:30	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-117S	03/06/2018	33.16	25.62	-	-	-	-	7.54	11:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	03/29/2018	33.16	25.62	-	-	-	-	7.54	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	04/11/2018	33.16	25.63	-	-	-	-	7.53	8:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	04/23/2018	33.16	25.63	-	-	-	-	7.53	9:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/03/2018	33.16	25.64	-	-	-	-	7.52	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/03/2018	32.31	24.15	-	-	-	-	8.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/21/2018	32.31	DRY	-	-	-	24.22	-	10:04	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-117S	06/12/2018	32.31	22.95	-	-	-	-	9.36	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	06/26/2018	32.31	22.61	-	-	-	24.08	9.70	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/02/2018	32.31	22.53	-	-	-	-	9.78	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/17/2018	32.31	22.59	-	-	-	-	9.72	10:10	-	-	-	-	-	-	-	-	-		-	-	
RW-117S	07/30/2018	32.31	22.07	-	-	-	-	10.24	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/09/2018	32.31	21.90	-	-	-	-	10.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/13/2018	32.31	21.80	-	-	-	24.18	10.51	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/14/2018	32.31	21.85	-	-	-	26.09	10.46	12:09	-	-	-	-	-	-	-	-	-	-	-	31,000	
RW-117S	09/04/2018	32.31	21.69	-	-	-	-	10.62	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/25/2018	32.31	24.39	-	-	-	-	-	13:26	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-117S	10/02/2018	32.31	22.82	-	-	-	25.37	-	10:35	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-117S	10/24/2018	32.31	24.70	-	-	-	25.37	-	9:54	-	-	-	-	-	-	-	-	-	-	-	-	See Notes
RW-117S	11/12/2018	33.31	22.90	-	-	-	-	10.41	10:22	-	-	-	-	-	-	-	-	-	-	-	4,900	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-117S	11/27/2018	33.31	22.62	-	-	-	-	10.69	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	12/11/2018	33.31	22.80	-	-	-	-	10.51	10:02	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	12/27/2018	33.31	22.67	-	-	-	-	10.64	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	01/10/2019	33.31	22.78	-	-	-	-	10.53	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/08/2015	31.09	21.79	-	-	-	-	9.30	11:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/13/2015	31.09	21.64	-	-	-	24.90	9.45	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/20/2015	31.09	21.27	-	-	-	-	9.82	9:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/28/2015	31.09	21.22	-	-	-	25.00	9.87	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/04/2015	31.09	21.28	-	-	-	24.93	9.81	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/05/2015	31.09	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,200	
RW-118S	08/11/2015	31.09	21.44	-	-	-	24.96	9.65	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/18/2015	31.09	21.52	-	-	-	-	9.57	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/24/2015	31.09	21.62	-	-	-	-	9.47	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/02/2015	31.09	21.76	-	-	-	24.97	9.33	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/09/2015	31.09	21.56	-	-	-	24.95	9.53	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/17/2015	31.09	21.96	-	-	-	25.01	9.13	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/23/2015	31.09	21.97	-	-	-	-	9.12	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/28/2015	31.09	22.03	-	-	-	24.95	9.06	9:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	10/05/2015	31.09	22.68	-	-	-	25.00	8.41	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	11/10/2015	31.09	22.35	-	-	-	-	8.74	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	12/01/2015	31.24	22.84	-	-	-	25.08	8.40	13:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	12/02/2015	31.24	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,000	
RW-118S	01/27/2016	31.24	24.02	-	-	-	-	7.22	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	02/15/2016	31.24	22.23	-	-	-	-	9.01	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	03/14/2016	31.24	22.26	-	-	-	25.15	8.98	9:05	-	-	-	-	-	-	-	-	-	-	-	8,200	
RW-118S	04/21/2016	31.24	23.85	-	-	-	25.10	7.39	12:06	-	-	-	-	-	-	-	-	-	-	-	1,100	
RW-118S	05/23/2016	31.24	23.95	-	-	-	25.15	7.29	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	05/24/2016	31.24	23.88	-	-	-	25.10	7.36	11:35	-	-	-	-	-	-	-	-	-	-	-	1,600	
RW-118S	06/21/2016	31.24	23.95	-	-	-	-	7.29	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	07/21/2016	31.24	23.92	-	-	-	-	7.32	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/24/2016	31.24	23.91	-	-	-	25.11	7.33	12:05	-	-	-	-	-	-	-	-	-	-	-	750	
RW-118S	08/25/2016	31.24	23.94	-	-	-	-	7.30	13:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	09/22/2016	31.24	23.94	-	-	-	25.17	7.30	12:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	10/20/2016	31.24	23.97	-	-	-	-	7.27	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	11/28/2016	31.24	23.95	-	-	-	25.24	7.29	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	11/29/2016	31.24	24.00	-	-	-	25.15	7.24	-	-	-	-	-	-	-	-	-	-	-	-	2,000	
RW-118S	12/22/2016	31.24	24.33	-	-	-	25.17	6.91	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-118S	01/30/2017	31.24	24.74	-	-	-	25.20	6.50	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	02/21/2017	31.24	24.41	-	-	-	25.10	6.83	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	02/22/2017	31.24	24.41	-	-	-	-	6.83	10:04	-	-	-	-	-	-	-	-	-	-	-	2,200	
RW-118S	03/29/2017	30.81	23.95	-	-	-	24.23	6.86	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	05/22/2017	30.81	24.10	-	-	-	24.20	6.71	10:44	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
RW-118S	08/28/2017	30.81	21.11	-	-	-	24.19	9.70	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/29/2017	30.81	21.16	-	-	-	24.27	9.65	13:40	-	-	-	-	-	-	-	-	<0.66	-	1,960	31,300	
RW-118S	11/28/2017	30.81	22.63	-	-	-	24.19	8.18	14:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	11/30/2017	30.81	22.76	-	-	-	24.25	8.05	12:50	-	-	-	-	-	-	-	-	-	-	21,000	19,100	
RW-118S	02/20/2018	30.81	21.23	-	-	-	24.19	9.58	11:55	-	-	-	-	-	-	-	-	-	-	913	25,500	
RW-118S	05/21/2018	30.81	20.98	-	-	-	24.22	9.83	11:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	05/22/2018	30.81	20.99	-	-	-	24.22	9.82	9:51	-	-	-	-	-	-	-	-	-	-	-	16,100	
RW-118S	08/13/2018	30.81	23.22	-	-	-	26.25	7.59	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/14/2018	30.81	20.47	-	-	-	25.04	10.34	12:17	-	-	-	-	-	-	-	-	-	-	-	6,600	
RW-118S	11/12/2018	30.81	20.49	-	-	-	24.20	10.32	9:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	11/13/2018	30.81	20.42	-	-	-	24.20	10.39	14:00	-	-	-	-	-	-	-	-	-	-	-	7,100	
RW-119S	07/08/2015	30.38	21.80	-	-	-	-	8.58	11:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/13/2015	30.38	21.83	-	-	-	26.15	8.55	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/20/2015	30.38	21.53	-	-	-	-	8.85	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/28/2015	30.38	21.51	-	-	-	26.25	8.87	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/04/2015	30.38	21.50	-	-	-	26.15	8.88	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/05/2015	30.38	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,700	
RW-119S	08/11/2015	30.38	21.53	-	-	-	26.15	8.85	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/18/2015	30.38	21.73	-	-	-	-	8.65	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/24/2015	30.38	21.82	-	-	-	-	8.56	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	09/02/2015	30.38	22.01	-	-	-	26.17	8.37	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	09/09/2015	30.38	22.09	-	-	-	26.20	8.29	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	09/17/2015	30.38	22.34	-	-	-	26.21	8.04	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	09/23/2015	30.38	22.35	-	-	-	-	8.03	10:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	09/28/2015	30.38	22.32	-	-	-	26.20	8.06	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	10/05/2015	30.38	22.45	-	-	-	26.20	7.93	12:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/10/2015	30.38	25.50	-	-	-	-	4.88	13:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	12/01/2015	33.33	25.65	-	-	-	29.02	7.68	13:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	12/02/2015	33.33	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000	
RW-119S	01/27/2016	33.33	25.63	-	-	-	-	7.70	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	02/15/2016	33.33	26.89	-	-	-	-	6.44	9:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	03/14/2016	33.33	25.85	-	-	-	29.20	7.48	9:28	-	-	-	-	-	-	-	-	-	-	-	4,400	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-119S	04/21/2016	33.33	25.40	-	-	-	29.17	7.93	11:03	-	-	-	-	-	-	-	-	-	-	-	3,300	
RW-119S	05/23/2016	33.33	26.20	-	-	-	29.18	7.13	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/24/2016	33.33	25.05	-	-	-	29.50	8.28	9:10	-	-	-	-	-	-	-	-	-	-	-	2,100	
RW-119S	06/21/2016	33.33	26.28	-	-	-	-	7.05	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/21/2016	33.33	26.24	-	-	-	-	7.09	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/24/2016	33.33	26.30	-	-	-	29.70	7.03	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/25/2016	33.33	24.82	-	-	-	-	8.51	9:40	-	-	-	-	-	-	-	-	-	-	-	1,200	
RW-119S	09/22/2016	33.33	26.28	-	-	-	29.28	7.05	12:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	10/20/2016	33.33	26.24	-	-	-	-	7.09	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/28/2016	33.33	NR	-	-	-	-	-	11:06	-	-	-	-	-	-	-	-	-	-	-	-	Obstruction at 12.63 ft during gauging
RW-119S	11/29/2016	33.33	26.31	-	-	-	28.96	7.02	-	-	-	-	-	-	-	-	-	-	-	-	24,000	
RW-119S	12/22/2016	33.33	26.30	-	-	-	28.95	7.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	01/30/2017	33.33	26.35	-	-	-	29.05	6.98	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	02/21/2017	33.33	26.30	-	-	-	28.90	7.03	10:00	-	-	-	-	-	-	-	-	-	-	-	4,200	
RW-119S	03/29/2017	33.28	26.14	-	-	-	28.95	7.14	12:53	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	04/18/2017	33.28	26.20	-	-	-	28.98	7.08	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/22/2017	33.28	24.21	-	-	-	28.95	9.07	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/23/2017	33.28	21.50	-	-	-	28.95	11.78	10:05	-	-	-	-	-	-	-	-	-	-	-	18,500	
RW-119S	06/22/2017	33.28	26.19	-	-	-	28.98	7.09	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/19/2017	33.28	26.23	-	-	-	29.15	7.05	11:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/21/2017	33.28	23.20	-	-	-	28.90	10.08	9:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/28/2017	33.28	23.60	-	-	-	28.90	9.68	10:41	-	-	-	-	-	-	-	-	<2.0	-	1,410	17,500	
RW-119S	09/20/2017	33.28	24.42	-	-	-	-	8.86	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	10/17/2017	33.28	25.02	-	-	-	-	8.26	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/28/2017	33.28	24.96	-	-	-	28.97	8.32	13:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/29/2017	33.28	25.11	-	-	-	28.83	8.17	11:07	-	-	-	-	-	-	-	-	-	-	9210	11,400	
RW-119S	12/19/2017	33.28	25.30	-	-	-	-	7.98	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	01/26/2018	33.28	25.98	-	-	-	-	7.30	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	02/20/2018	33.28	24.82	-	-	-	28.90	8.46	11:45	-	-	-	-	-	-	-	-	-	-	4020	5,130	
RW-119S	03/06/2018	33.28	26.06	-	-	-	-	7.22	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	03/29/2018	33.28	25.43	-	-	-	-	7.85	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	04/11/2018	33.28	25.77	-	-	-	-	7.51	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	04/23/2018	33.28	25.48	-	-	-	-	7.80	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/03/2018	33.28	25.87	-	-	-	-	7.41	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/03/2018	30.53	23.15	-	-	-	-	7.38	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/21/2018	30.53	21.16	-	-	-	25.98	9.37	11:39	-	-	-	-	-	-	-	-	-	-	-	8,700	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
RW-119S	06/12/2018	30.53	22.13	-	-	-	-	8.40	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	06/26/2018	30.53	21.98	-	-	-	26.12	8.55	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/02/2018	30.53	22.04	-	-	-	-	8.49	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/17/2018	30.53	22.03	-	-	-	-	8.50	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/30/2018	30.53	19.84	-	-	-	-	10.69	9:59	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/09/2018	30.53	20.28	-	-	-	-	10.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/13/2018	30.53	20.37	-	-	-	26.03	10.16	11:58	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/14/2018	30.53	20.35	-	-	-	27.82	10.18	13:37	-	-	-	-	-	-	-	-	-	-	-	5,800	
RW-119S	09/04/2018	30.53	19.51	-	-	-	-	11.02	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	09/25/2018	30.53	20.29	-	-	-	-	10.24	13:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	10/02/2018	30.53	20.27	-	-	-	-	10.26	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	10/24/2018	30.53	21.61	-	-	-	-	8.92	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/12/2018	30.53	19.90	-	-	-	26.00	10.63	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	11/13/2018	30.53	19.90	-	-	-	26.00	10.63	14:04	-	-	-	-	-	-	-	-	-	-	-	4,800	
RW-119S	11/27/2018	30.53	19.48	-	-	-	-	11.05	10:12	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	12/11/2018	30.53	20.85	-	-	-	-	9.68	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	12/27/2018	30.53	20.01	-	-	-	-	10.52	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	01/10/2019	30.53	20.20	-	-	-	-	10.33	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	12/16/2013	38.31	NR	-	-	-	-	-	-	14.3	ND	13.1	63.5	1.55	-	-	-	119	-	-	14,100	
TW-01	12/18/2013	38.31	31.38	-	-	-	-	6.93	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	01/08/2014	38.31	31.80	31.79	0.01	-	-	6.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/07/2014	38.31	30.41	-	-	-	-	7.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/13/2014	38.31	31.13	-	-	-	-	7.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/20/2014	38.31	30.36	-	-	-	-	7.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	03/27/2014	38.31	31.22	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/03/2014	38.31	30.36	-	-	-	-	7.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/08/2014	38.31	30.21	-	-	-	-	8.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/17/2014	38.31	31.02	-	-	-	-	7.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/22/2014	38.31	30.18	-	-	-	-	8.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	04/29/2014	38.31	30.22	-	-	-	-	8.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	05/05/2014	38.31	30.29	-	-	-	-	8.02	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	05/12/2014	38.31	30.28	-	-	-	-	8.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	05/19/2014	38.31	30.16	-	-	-	-	8.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	06/02/2014	38.31	30.17	-	-	-	-	8.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	06/09/2014	38.31	30.08	-	-	-	-	8.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	06/16/2014	38.31	30.23	-	-	-	-	8.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	06/23/2014	38.31	30.02	-	-	-	-	8.29	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-01	07/02/2014	38.31	29.98	-	-	-	-	8.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	07/07/2014	38.31	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27,400	
TW-01	07/14/2014	38.31	29.89	-	-	-	-	8.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	07/31/2014	38.31	30.26	-	-	-	34.50	8.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-01	08/01/2014	Overdrilled and replaced with MW-05																				
TW-02	12/16/2013	20.60	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	0.791	-	-	-	ND	-	-	584	
TW-02	12/18/2013	20.60	15.52	-	-	-	-	5.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	01/08/2014	20.60	15.08	-	-	-	-	5.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	03/07/2014	20.60	14.81	-	-	-	-	5.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	03/13/2014	20.60	14.22	-	-	-	-	6.38	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	03/20/2014	20.60	13.39	-	-	-	-	7.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	03/27/2014	20.60	14.31	-	-	-	-	6.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	04/03/2014	20.60	13.25	-	-	-	-	7.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	04/08/2014	20.60	13.74	-	-	-	-	6.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	04/17/2014	20.60	13.70	-	-	-	-	6.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	04/22/2014	20.60	13.62	-	-	-	-	6.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	04/29/2014	20.60	13.96	-	-	-	-	6.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/05/2014	20.60	13.55	-	-	-	-	7.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/12/2014	20.60	14.25	-	-	-	-	6.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/19/2014	20.60	13.63	-	-	-	-	6.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/27/2014	20.60	14.31	-	-	-	-	6.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	06/02/2014	20.60	14.34	-	-	-	-	6.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	06/09/2014	20.60	14.71	-	-	-	-	5.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	06/16/2014	20.60	14.30	-	-	-	-	6.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	06/23/2014	20.60	14.48	-	-	-	-	6.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	07/02/2014	20.60	14.77	-	-	-	-	5.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	07/07/2014	20.60	15.08	-	-	-	21.28	5.52	-	-	-	-	-	-	-	-	-	-	-	-	<1,160	
TW-02	07/14/2014	20.60	15.02	-	-	-	-	5.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	07/31/2014	20.60	15.40	-	-	-	21.22	5.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/08/2014	20.60	15.40	-	-	-	-	5.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/11/2014	20.60	15.28	-	-	-	-	5.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/15/2014	20.60	14.84	-	-	-	21.15	5.76	-	-	-	-	-	-	-	-	-	-	-	-	<600	
TW-02	08/18/2014	20.60	15.06	-	-	-	-	5.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/25/2014	NR	14.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	09/02/2014	NR	15.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	09/15/2014	NR	14.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	09/22/2014	NR	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-02	10/01/2014	NR	15.22	-	-	-	21.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	10/13/2014	NR	14.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	10/20/2014	NR	15.10	-	-	-	20.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	10/23/2014	NR	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	-	60	
TW-02	02/24/2015	16.11	14.34	-	-	-	-	1.77	15:01	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	03/04/2015	16.11	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	-	<45	
TW-02	05/11/2015	16.11	14.38	-	-	-	20.80	1.73	15:18	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/13/2015	16.11	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	<20	-	<45	
TW-02	08/04/2015	16.11	15.08	-	-	-	20.87	1.03	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/05/2015	16.11	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	-	<45	
TW-02	12/01/2015	16.11	15.08	-	-	-	20.88	1.03	13:28	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	12/03/2015	16.11	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.07	<20	-	81 J	
TW-02	03/14/2016	16.11	14.32	-	-	-	20.97	1.79	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	03/16/2016	16.11	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	-	<45	
TW-02	05/23/2016	16.11	13.26	-	-	-	-	2.85	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/25/2016	16.11	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	-	<45	
TW-02	08/24/2016	16.11	14.83	-	-	-	21.20	1.28	10:50	-	-	-	-	-	-	-	-	-	-	-	<45	
TW-02	11/28/2016	16.11	15.50	-	-	-	21.83	0.61	8:49	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	02/21/2017	16.11	15.41	-	-	-	21.34	0.70	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/22/2017	16.11	14.30	-	-	-	21.33	1.81	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/23/2017	16.11	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.09	<20	-	<45	
TW-02	08/28/2017	16.11	15.82	-	-	-	21.30	0.29	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/30/2017	16.11	15.35	-	-	-	21.30	0.76	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	11/28/2017	16.11	15.65	-	-	-	21.42	0.46	11:01	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	02/20/2018	16.11	14.37	-	-	-	21.40	1.74	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/21/2018	16.11	12.25	-	-	-	-	3.86	14:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/13/2018	16.11	13.95	-	-	-	-	2.16	11:31	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/14/2018	16.11	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<11	-	<45	
TW-02	11/12/2018	16.11	12.65	-	-	-	-	3.46	12:42	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	11/13/2018	16.11	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.02	<11	-	<53	
TW-03	12/16/2013	14.87	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	ND	-	-	351	
TW-03	12/18/2013	14.87	9.08	-	-	-	-	5.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	01/08/2014	14.87	9.42	-	-	-	-	5.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	03/07/2014	14.87	7.66	-	-	-	-	7.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	03/13/2014	14.87	8.09	-	-	-	-	6.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	03/20/2014	14.87	7.50	-	-	-	-	7.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	03/27/2014	14.87	8.47	-	-	-	-	6.40	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-03	04/03/2014	14.87	6.99	-	-	-	-	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	04/08/2014	14.87	7.64	-	-	-	-	7.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	04/17/2014	14.87	7.33	-	-	-	-	7.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	04/22/2014	14.87	7.64	-	-	-	-	7.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	04/29/2014	14.87	7.36	-	-	-	-	7.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/05/2014	14.87	7.58	-	-	-	-	7.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/12/2014	14.87	7.93	-	-	-	-	6.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/19/2014	14.87	8.42	-	-	-	-	6.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/27/2014	14.87	7.69	-	-	-	-	7.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	06/02/2014	14.87	8.00	-	-	-	-	6.87	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	06/09/2014	14.87	7.77	-	-	-	-	7.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	06/16/2014	14.87	7.60	-	-	-	-	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	06/23/2014	14.87	7.68	-	-	-	-	7.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	07/02/2014	14.87	7.97	-	-	-	-	6.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	07/07/2014	14.87	8.31	-	-	-	13.45	6.56	-	-	-	-	-	-	-	-	-	-	-	-	<1,160	
TW-03	07/14/2014	14.87	7.55	-	-	-	-	7.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	07/25/2014	14.87	8.45	-	-	-	13.30	6.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	07/31/2014	14.87	8.14	-	-	-	13.35	6.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/08/2014	14.87	8.39	-	-	-	-	6.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/11/2014	14.87	8.12	-	-	-	-	6.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/15/2014	14.87	8.10	-	-	-	13.40	6.77	-	-	-	-	-	-	-	-	-	-	-	-	<1,500	
TW-03	08/18/2014	14.87	8.25	-	-	-	-	6.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/25/2014	10.40	7.85	-	-	-	-	2.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	09/02/2014	10.40	8.52	-	-	-	-	1.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	09/15/2014	10.40	8.33	-	-	-	-	2.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	09/22/2014	10.40	8.26	-	-	-	-	2.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	10/01/2014	10.40	8.35	-	-	-	13.15	2.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	10/13/2014	10.40	8.18	-	-	-	-	2.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	10/20/2014	10.40	8.50	-	-	-	13.14	1.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	10/23/2014	10.40	NR	-	-	-	-	-	-	0.7	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	<20	-	49	
TW-03	02/24/2015	10.40	8.57	-	-	-	-	1.83	14:49	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	03/04/2015	10.40	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	<20	-	180	
TW-03	05/11/2015	10.40	7.74	-	-	-	13.10	2.66	15:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/13/2015	10.40	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	21 J	-	200	
TW-03	08/04/2015	10.40	7.82	-	-	-	13.14	2.58	12:13	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/05/2015	10.40	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.20	<20	-	150	
TW-03	12/01/2015	10.40	7.64	-	-	-	13.12	2.76	13:26	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-03	12/02/2015	10.40	NR	-	-	-	-	-	-	0.7 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	<20	-	56 J	
TW-03	03/14/2016	10.40	7.95	-	-	-	13.10	2.45	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	03/16/2016	10.40	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.1 J	32 J	-	150	
TW-03	05/05/2016	10.40	7.53	-	-	-	-	2.87	12:21	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	5/23/2016 [H]	10.40	8.68	-	-	-	-	1.72	-	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.1 J	31 J	-	190	Geosyntec sampling, could not gauge
TW-03	5/23/2016[L]	10.40	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.1 J	27 J	-	180	
TW-03	08/24/2016	10.40	8.70	-	-	-	13.22	1.70	10:45	-	-	-	-	-	-	-	-	-	-	-	100	
TW-03	08/25/2016	10.40	8.09	-	-	-	-	2.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	09/22/2016	10.40	8.18	-	-	-	-	2.22	14:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	11/28/2016	10.40	8.83	-	-	-	13.10	1.57	8:46	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	54 J	
TW-03	02/21/2017	10.40	9.02	-	-	-	13.07	1.38	12:17	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	02/22/2017	10.40	8.69	-	-	-	13.10	1.71	10:09	-	-	-	-	-	-	-	-	-	-	-	61 J	
TW-03	05/22/2017	10.40	7.92	-	-	-	13.15	2.48	12:59	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/23/2017	10.40	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.09	<20	-	75 J	
TW-03	08/28/2017	10.40	9.98		-	-	13.10	0.42	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/30/2017	10.40	9.95	-	-	-	13.10	0.45	10:19	-	-	-	-	-	-	-	-	-	-	-	<83	
TW-03	11/28/2017	10.40	9.94	-	-	-	13.34	0.46	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	11/29/2017	10.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	219	
TW-03	02/20/2018	10.40	7.85	-	-	-	13.35	2.55	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	02/21/2018	10.40	7.85	-	-	-	-	2.55	12:42	-	-	-	-	-	-	-	-	-	-	-	589	
TW-03	05/21/2018	10.40	6.08	-	-	-	-	4.32	14:11	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/22/2018	10.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	918	
TW-03	05/24/2018	10.40	6.78	-	-	-	-	3.62	12:33	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/13/2018	10.40	7.25	-	-	-	-	3.15	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/14/2018	10.40	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	11 J	-	160	
TW-03	11/12/2018	10.40	6.78	-	-	-	-	3.62	12:44	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	11/13/2018	10.40	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<10	0.03 J	<11	-	180	
TW-04	12/16/2013	13.26	NR	-	-	-	-	-	-	2.2	<0.5	3.45	7.11	<0.5	-	-	-	27.7	-	-	2,000	
TW-04	12/18/2013	13.26	6.25	-	-	-	-	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	01/08/2014	13.26	6.71	-	-	-	-	6.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/07/2014	13.26	6.06	-	-	-	-	7.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/13/2014	13.26	6.26	-	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/20/2014	13.26	6.17	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/27/2014	13.26	6.55	-	-	-	-	6.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/03/2014	13.26	4.64	-	-	-	-	8.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/08/2014	13.26	5.38	-	-	-	-	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-04	04/17/2014	13.26	5.60	-	-	-	-	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/22/2014	13.26	5.56	-	-	-	-	7.70	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/29/2014	13.26	5.91	-	-	-	-	7.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/05/2014	13.26	5.06	-	-	-	-	8.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/12/2014	13.26	5.82	-	-	-	-	7.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/19/2014	13.26	4.61	-	-	-	-	8.65	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/27/2014	13.26	5.66	-	-	-	-	7.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/02/2014	13.26	5.83	-	-	-	-	7.43	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/09/2014	13.26	5.87	-	-	-	-	7.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/16/2014	13.26	5.21	-	-	-	-	8.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/23/2014	13.26	5.68	-	-	-	-	7.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/02/2014	13.26	5.96	-	-	-	-	7.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/07/2014	13.26	6.18	-	-	-	13.77	7.08	-	-	-	-	-	-	-	-	-	-	-	-	1,270	
TW-04	07/14/2014	13.26	5.80	-	-	-	-	7.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/25/2014	13.26	6.20	-	-	-	13.70	7.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/31/2014	13.26	6.08	-	-	-	13.76	7.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/08/2014	13.26	6.21	-	-	-	-	7.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/11/2014	13.26	6.19	-	-	-	-	7.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/15/2014	13.26	5.99	-	-	-	13.75	7.27	-	-	-	-	-	-	-	-	-	-	-	-	1,610	
TW-04	08/18/2014	13.26	5.92	-	-	-	-	7.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/25/2014	9.49	5.87	-	-	-	-	3.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/02/2014	9.49	6.25	-	-	-	-	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/15/2014	9.49	6.17	-	-	-	-	3.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/22/2014	9.49	6.20	-	-	-	-	3.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	10/01/2014	9.49	6.23	-	-	-	13.55	3.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	10/10/2014	9.49	6.18	-	-	-	-	3.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	10/13/2014	9.49	6.19	-	-	-	-	3.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	10/20/2014	9.49	6.28	-	-	-	13.40	3.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	10/23/2014	9.49	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	<20	-	160	
TW-04	10/27/2014	9.49	6.04	-	-	-	-	3.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/07/2014	9.49	6.27	-	-	-	-	3.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/12/2014	9.49	6.19	-	-	-	-	3.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/21/2014	9.49	6.78	-	-	-	-	2.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/26/2014	9.49	6.33	-	-	-	-	3.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	12/05/2014	9.49	5.75	-	-	-	-	3.74	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	12/11/2014	9.49	5.60	-	-	-	-	3.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	12/16/2014	9.49	5.83	-	-	-	-	3.66	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-04	12/23/2014	9.49	5.82	-	-	-	-	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	12/30/2014	9.49	5.73	-	-	-	-	3.76	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	01/09/2015	9.49	6.06	-	-	-	-	3.43	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	01/16/2015	9.49	5.64	-	-	-	-	3.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	01/19/2015	9.49	5.37	-	-	-	-	4.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	01/26/2015	9.49	4.78	-	-	-	-	4.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	02/03/2015	9.49	6.06	-	-	-	13.21	3.43	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	02/09/2015	9.49	6.08	-	-	-	-	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	02/18/2015	9.49	6.19	-	-	-	-	3.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	02/24/2015	9.49	6.21	-	-	-	-	3.28	15:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/04/2015	9.49	6.11	-	-	-	-	3.38	11:45	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1	27 J	-	940	
TW-04	03/11/2015	9.49	3.93	-	-	-	-	5.56	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/18/2015	9.49	5.40	-	-	-	-	4.09	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/26/2015	9.49	5.75	-	-	-	13.20	3.74	12:21	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/02/2015	9.49	5.85	-	-	-	13.25	3.64	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/08/2015	9.49	6.20	-	-	-	13.25	3.29	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/13/2015	9.49	6.28	-	-	-	-	3.21	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/23/2015	9.49	5.44	-	-	-	13.25	4.05	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/29/2015	9.49	5.85	-	-	-	13.25	3.64	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/04/2015	9.49	5.75	-	-	-	-	3.74	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/11/2015	9.49	5.83	-	-	-	13.20	3.66	15:33	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/13/2015	9.49	NR	-	-	-	-	-	-	1 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<1	33 J	-	700	
TW-04	05/21/2015	9.49	5.89	-	-	-	13.27	3.60	13:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/28/2015	9.49	6.28	-	-	-	13.25	3.21	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/02/2015	9.49	5.01	-	-	-	-	4.48	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/09/2015	9.49	5.17	-	-	-	-	4.32	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/16/2015	9.49	5.67	-	-	-	-	3.82	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	06/26/2015	9.49	4.98	-	-	-	13.20	4.51	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/01/2015	9.49	3.57	-	-	-	-	5.92	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/08/2015	9.49	4.57	-	-	-	-	4.92	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/13/2015	9.49	4.28	-	-	-	-	5.21	8:53	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/20/2015	9.49	5.32	-	-	-	-	4.17	8:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/04/2015	9.49	5.62	-	-	-	13.70	3.87	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/06/2015	9.49	NR	-	-	-	-	-	-	0.6 J	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.6	38 J	-	1,000	
TW-04	08/18/2015	9.49	5.88	-	-	-	-	3.61	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/24/2015	9.49	5.76	-	-	-	-	3.73	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/02/2015	9.49	5.92	-	-	-	13.20	3.57	11:36	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-04	09/09/2015	9.49	6.06	-	-	-	13.18	3.43	14:09	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/17/2015	9.49	6.11	-	-	-	13.21	3.38	11:48	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/23/2015	9.49	6.08	-	-	-	-	3.41	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	09/28/2015	9.49	5.61	-	-	-	13.08	3.88	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	10/05/2015	9.49	5.22	-	-	-	13.13	4.27	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/10/2015	9.49	5.92	-	-	-	-	3.57	12:29	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	12/01/2015	9.49	5.78	-	-	-	13.10	3.71	13:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	12/02/2015	9.49	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	22 J	-	280	
TW-04	02/15/2016	9.49	6.07	-	-	-	-	3.42	9:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	03/14/2016	9.49	5.93	-	-	-	13.11	3.56	9:55	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.2	31 J	-	980	
TW-04	04/21/2016	9.49	6.23	-	-	-	-	3.26	9:17	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/05/2016	9.49	5.50	-	-	-	-	3.99	12:27	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/23/2016	9.49	4.83	-	-	-	-	4.66	10:49	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	05/24/2016	9.49	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.5	50 J	-	1,100	
TW-04	06/21/2016	9.49	6.30	-	-	-	-	3.19	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	07/21/2016	9.49	5.91	-	-	-	-	3.58	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/24/2016	9.49	6.35	-	-	-	13.15	3.14	9:44	-	-	-	-	-	-	-	-	-	-	-	430	
TW-04	09/22/2016	9.49	6.20	-	-	-	-	3.29	14:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/28/2016	9.49	6.69	-	-	-	10.07	2.80	8:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/29/2016	9.49	NR	-	-	-	-	-	-	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	220	
TW-04	02/21/2017	9.49	6.70	-	-	-	13.07	2.79	12:07	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	02/22/2017	9.49	6.52	-	-	-	13.08	2.97	10:39	-	-	-	-	-	-	-	-	-	-	-	410	
TW-04	05/22/2017	9.49	5.44	-	-	-	13.08	4.05	13:07	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.5	27 J	-	770	
TW-04	08/28/2017	9.49	10.04	-	-	-	13.11	-0.55	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/30/2017	9.49	9.70	-	-	-	13.10	-0.21	12:25	-	-	-	-	-	-	-	-	-	-	-	5,700	
TW-04	11/28/2017	9.49	8.85	-	-	-	13.62	0.64	10:57	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	11/29/2017	9.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,170	
TW-04	02/20/2018	9.49	5.80	-	-	-	14.66	3.69	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	02/21/2018	9.49	-	-	-	-	-	-	13:15	-	-	-	-	-	-	-	-	-	-	-	539	
TW-04	05/21/2018	9.49	3.90	-	-	-	-	5.59	14:25	-	-	-	-	-	-	-	-	-	-	-	910	
TW-04	08/13/2018	9.49	4.97	-	-	-	-	4.52	11:41	<0.5	<0.5	<0.5	<0.5	<0.5	15	<0.5	<0.5	0.3	26 J	-	800	
TW-04	11/12/2018	9.49	3.42	-	-	-	-	6.07	11:55	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	0.3	13 J	-	560	
TW-05	12/16/2013	13.73	NR	-	-	-	-	-	-	7.68	<0.5	62.8	40.3	<0.5	-	-	-	240	-	-	136,000	
TW-05	12/18/2013	13.73	6.45	-	-	-	-	7.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	01/08/2014	13.73	6.98	-	-	-	-	6.75	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/07/2014	13.73	6.34	-	-	-	-	7.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/13/2014	13.73	6.49	-	-	-	-	7.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/20/2014	13.73	6.04	-	-	-	-	7.69	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-05	03/27/2014	13.73	6.68	-	-	-	-	7.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/03/2014	13.73	4.29	-	-	-	-	9.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/08/2014	13.73	5.36	-	-	-	-	8.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/17/2014	13.73	5.33	-	-	-	-	8.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/22/2014	13.73	5.65	-	-	-	-	8.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/29/2014	13.73	6.06	-	-	-	-	7.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/05/2014	13.73	4.91	-	-	-	-	8.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/12/2014	13.73	6.01	-	-	-	-	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/19/2014	13.73	4.65	-	-	-	-	9.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/27/2014	13.73	5.91	-	-	-	-	7.82	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/02/2014	13.73	6.07	-	-	-	-	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/09/2014	13.73	6.11	-	-	-	-	7.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/16/2014	13.73	5.28	-	-	-	-	8.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/23/2014	13.73	5.95	-	-	-	-	7.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/02/2014	13.73	6.28	-	-	-	-	7.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/07/2014	13.73	6.49	-	-	-	12.06	7.24	-	-	-	-	-	-	-	-	-	-	-	-	66,300	
TW-05	07/14/2014	13.73	6.06	-	-	-	-	7.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/25/2014	13.73	5.43	-	-	-	12.08	8.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/31/2014	13.73	6.50	-	-	-	12.10	7.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/08/2014	13.73	6.56	-	-	-	-	7.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/11/2014	13.73	6.51	-	-	-	-	7.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/15/2014	13.73	5.91	-	-	-	11.95	7.82	-	-	-	-	-	-	-	-	-	-	-	-	271,000	
TW-05	08/18/2014	13.73	6.14	-	-	-	-	7.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/25/2014	9.64	6.13	-	-	-	-	3.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/02/2014	9.64	6.59	-	-	-	-	3.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/15/2014	9.64	6.57	-	-	-	-	3.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/22/2014	9.64	6.58	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/01/2014	9.64	6.63	-	-	-	11.74	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/10/2014	9.64	6.52	-	-	-	-	3.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/13/2014	9.64	6.58	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/20/2014	9.64	6.60	-	-	-	12.63	3.04	-	4	<0.5	14	<0.5	<0.5	<2	<0.5	<0.5	21	140	-	29,000	
TW-05	10/27/2014	9.64	6.23	-	-	-	-	3.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/07/2014	9.64	6.58	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/12/2014	9.64	6.56	-	-	-	-	3.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/21/2014	9.64	7.07	-	-	-	-	2.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/26/2014	9.64	6.67	-	-	-	-	2.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/05/2014	9.64	5.57	-	-	-	-	4.07	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-05	12/11/2014	9.64	5.38	-	-	-	-	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/16/2014	9.64	5.86	-	-	-	-	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/23/2014	9.64	6.08	-	-	-	-	3.56	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/30/2014	9.64	5.50	-	-	-	-	4.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	01/09/2015	9.64	6.27	-	-	-	-	3.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	01/16/2015	9.64	5.48	-	-	-	-	4.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	01/19/2015	9.64	5.08	-	-	-	-	4.56	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	01/26/2015	9.64	4.30	-	-	-	-	5.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/03/2015	9.64	6.20	-	-	-	11.88	3.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/09/2015	9.64	6.38	-	-	-	-	3.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/18/2015	9.64	6.64	-	-	-	-	3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/24/2015	9.64	6.61	-	-	-	-	3.03	14:57	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/04/2015	9.64	6.27	-	-	-	-	3.37	12:15	2	<0.50	1	<0.5	<0.5	<2	<0.5	<0.5	3	130	-	2,200	
TW-05	03/11/2015	9.64	3.15	-	-	-	-	6.49	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/18/2015	9.64	4.61	-	-	-	-	5.03	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/26/2015	9.64	5.94	-	-	-	12.10	3.70	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/02/2015	9.64	6.00	-	-	-	12.10	3.64	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/08/2015	9.64	6.41	-	-	-	12.14	3.23	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/13/2015	9.64	6.53	-	-	-	-	3.11	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/23/2015	9.64	5.48	-	-	-	12.20	4.16	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/29/2015	9.64	5.99	-	-	-	12.20	3.65	13:17	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/04/2015	9.64	5.94	-	-	-	-	3.70	10:53	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/11/2015	9.64	6.12	-	-	-	12.30	3.52	15:39	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/13/2015	9.64	NR	-	-	-	-	-	-	3	<0.50	<0.50	<0.5	<0.5	<2	<0.5	<0.5	1 J	44 J	-	1,100	
TW-05	05/21/2015	9.64	6.15	-	-	-	12.48	3.49	13:07	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/28/2015	9.64	6.56	-	-	-	12.50	3.08	10:57	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/02/2015	9.64	4.05	-	-	-	-	5.59	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/09/2015	9.64	4.63	-	-	-	-	5.01	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/16/2015	9.64	5.99	-	-	-	-	3.65	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/26/2015	9.64	4.52	-	-	-	12.80	5.12	8:47	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/01/2015	9.64	1.82	-	-	-	-	7.82	11:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/08/2015	9.64	4.22	-	-	-	-	5.42	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/13/2015	9.64	4.24	-	-	-	-	5.40	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/20/2015	9.64	5.64	-	-	-	-	4.00	8:43	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/28/2015	9.64	6.01	-	-	-	12.42	3.63	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/04/2015	9.64	6.07	-	-	-	12.32	3.57	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/06/2015	9.64	NR	-	-	-	-	-	-	2	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.8	37 J	-	790	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-05	08/11/2015	9.64	5.56	-	-	-	12.54	4.08	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/18/2015	9.64	6.28	-	-	-	-	3.36	9:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/24/2015	9.64	6.23	-	-	-	-	3.41	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/02/2015	9.64	6.32	-	-	-	12.53	3.32	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/09/2015	9.64	6.73	-	-	-	12.55	2.91	14:06	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/17/2015	9.64	6.54	-	-	-	12.53	3.10	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/23/2015	9.64	6.41	-	-	-	-	3.23	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/28/2015	9.64	6.01	-	-	-	12.51	3.63	10:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/05/2015	9.64	5.43	-	-	-	12.54	4.21	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/10/2015	9.64	6.31	-	-	-	-	3.33	12:31	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/01/2015	9.64	5.99	-	-	-	12.38	3.65	13:10	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	30 J	-	330	
TW-05	02/15/2016	9.64	6.34	-	-	-	-	3.30	9:09	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/14/2016	9.64	6.22	-	-	-	12.43	3.42	10:00	1	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.3	<20	-	960	
TW-05	04/21/2016	9.64	6.92	-	-	-	-	2.72	9:21	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/05/2016	9.64	5.40	-	-	-	-	4.24	12:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/23/2016	9.64	5.46	-	-	-	-	4.18	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/21/2016	9.64	7.02	-	-	-	-	2.62	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/21/2016	9.64	6.37	-	-	-	-	3.27	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/24/2016	9.64	6.80	-	-	-	12.85	2.84	9:49	-	-	-	-	-	-	-	-	-	-	-	890	
TW-05	08/25/2016	9.64	6.20	-	-	-	-	3.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/22/2016	9.64	6.75	-	-	-	-	2.89	14:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/28/2016	9.64	7.07	-	-	-	13.02	2.57	8:41	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/29/2016	9.64	NR	-	-	-	-	-	-	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	430	
TW-05	02/21/2017	9.64	7.20	-	-	-	13.32	2.44	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/22/2017	9.64	7.10	-	-	-	13.30	2.54	10:56	-	-	-	-	-	-	-	-	-	-	-	2,800	
TW-05	05/22/2017	9.64	5.61	-	-	-	13.40	4.03	13:15	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.09 J	30 J	-	650	
TW-05	08/28/2017	9.64	10.02	-	-	-	13.45	-0.38	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/30/2017	9.64	9.71	-	-	-	13.48	-0.07	11:39	-	-	-	-	-	-	-	-	-	-		24,000	
TW-05	11/28/2017	9.64	8.83	-	-	-	14.57	0.81	11:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/30/2017	9.64	9.02	-	-	-	14.62	0.62	11:39	-	-	-	-	-	-	-	-	-	-	67,000	61,500	
TW-05	01/26/2018	9.64	8.67	-	-	-	-	0.97	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/01/2018	9.64	8.15	-	-	-	-	1.49	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/20/2018	9.64	6.11	-	-	-	15.00	3.53	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/21/2018	9.64	6.23	6.21	0.02	-	-	3.43	12:42	-	-	-	-	-	-	-	-	-	-	2,410,000	646,000	LNAPL
TW-05	03/06/2018	9.64	6.22	-	-	-	-	3.42	12:10	-	-	-	-	-	-	-	-	-	-	-	-	sheen
TW-05	03/29/2018	9.64	5.57	-	-	-	-	4.07	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/11/2018	9.64	6.54	-	-	-	-	3.10	11:40	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-05	04/23/2018	9.64	5.62	-	-	-	-	4.02	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/03/2018	9.64	5.43	-	TRACE	-	-	4.21	9:45	-	-	-	-	-	-	-	-	-	-	-	-	sheen
TW-05	05/21/2018	9.64	2.88	2.84	0.04	-	-	6.80	14:21	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL
TW-05	05/24/2018	9.64	3.21	3.17	0.04	-	-	6.47	13:20	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL
TW-05	06/01/2018	9.64	4.75	-	-	-	-	4.89	9:01	-	-	-	-	-	-	-	-	-	-	-	-	sheen
TW-05	06/06/2018	9.64	3.43	-	-	-	-	6.21	10:27	-	-	-	-	-	-	-	-	-	-	-	-	slight sheen
TW-05	06/12/2018	9.64	4.49	-	-	-	-	5.15	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/21/2018	9.64	5.39	-	-	-	-	4.25	10:54	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/26/2018	9.64	5.32	-	-	-	-	4.32	10:32	-	-	-	-	-	-	-	-	-	-	629,000 B	817,000	
TW-05	07/02/2018	9.64	5.78	-	-	-	-	3.86	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/17/2018	9.64	6.20	-	-	-	-	3.44	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/30/2018	9.64	4.10	-	-	-	-	5.54	11:31	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/09/2018	9.64	4.50	4.43	0.07	-	-	5.20	13:20	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL
TW-05	08/13/2018	9.64	4.85	4.84	0.01	-	-	4.80	11:48	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL
TW-05	08/22/2018	9.64	3.01	-	-	-	-	6.63	13:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/28/2018	9.64	4.78	-	-	-	-	4.86	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/04/2018	9.64	4.72	-	-	-	-	4.92	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/13/2018	9.64	2.97	-	TRACE	-	-	6.67	-	-	-	-	-	-	-	-	-	-	-	-	-	sheen
TW-05	09/21/2018	9.64	3.68	-	-	-	-	5.96	13:37	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/25/2018	9.64	3.55	-	-	-	-	6.09	10:51	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/02/2018	9.64	3.36	-	-	-	-	6.28	11:16	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/09/2018	9.64	4.50	-	-	-	-	5.14	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	10/24/2018	9.64	5.42	-	-	-	-	4.22	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/01/2018	9.64	5.07	-	-	-	-	4.57	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/12/2018	9.64	3.62	-	-	-	-	6.02	12:41	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	11/13/2018	9.64	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	1	25 J	-	1,500	
TW-05	11/27/2018	9.64	2.40	-	-	-	-	7.24	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/11/2018	9.64	5.11	-	-	-	-	4.53	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	12/27/2018	9.64	3.85	-	-	-	-	5.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	01/10/2019	9.64	4.12	-	-	-	-	5.52	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	12/16/2013	13.97	NR	-	-	-	-	-	-	1.09	ND	20.3	7.86	ND	-	-	-	174	-	-	47,000	
TW-06	12/18/2013	13.97	6.21	-	-	-	-	7.76	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	01/08/2014	13.97	6.98	-	-	-	-	6.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/07/2014	13.97	6.40	-	-	-	-	7.57	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/13/2014	13.97	6.62	-	-	-	-	7.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/20/2014	13.97	6.26	-	-	-	-	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/27/2014	13.97	6.88	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-06	04/03/2014	13.97	4.81	-	-	-	-	9.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/08/2014	13.97	5.82	-	-	-	-	8.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/17/2014	13.97	5.41	-	-	-	-	8.56	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/22/2014	13.97	5.90	-	-	-	-	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/29/2014	13.97	6.30	-	-	-	-	7.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/05/2014	13.97	4.98	-	-	-	-	8.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/12/2014	13.97	6.18	-	-	-	-	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/19/2014	13.97	4.63	-	-	-	-	9.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/27/2014	13.97	6.79	-	-	-	-	7.18	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/02/2014	13.97	6.24	-	-	-	-	7.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/09/2014	13.97	6.31	-	-	-	-	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/16/2014	13.97	5.33	-	-	-	-	8.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/23/2014	13.97	6.12	-	-	-	-	7.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/02/2014	13.97	6.52	-	-	-	-	7.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/07/2014	13.97	6.70	-	-	-	12.60	7.27	-	-	-	-	-	-	-	-	-	-	-	-	113,000	
TW-06	07/14/2014	13.97	6.24	-	-	-	-	7.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/25/2014	13.97	6.65	-	-	-	12.60	7.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/08/2014	13.97	6.81	-	-	-	-	7.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/11/2014	13.97	6.71	-	-	-	-	7.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/15/2014	13.97	6.01	-	-	-	12.70	7.96	-	-	-	-	-	-	-	-	-	-	-	-	147,000	
TW-06	08/18/2014	13.97	6.33	-	-	-	-	7.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/25/2014	9.86	6.37	-	-	-	-	3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/02/2014	9.86	6.80	-	-	-	-	3.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/15/2014	9.86	6.79	-	-	-	-	3.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/22/2014	9.86	6.77	-	-	-	-	3.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/01/2014	9.86	6.88	-	-	-	12.60	2.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/10/2014	9.86	6.77	-	-	-	-	3.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/13/2014	9.86	6.85	-	-	-	-	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/20/2014	9.86	6.76	-	-	-	12.63	3.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/23/2014	9.86	NR	-	-	-	-	-	-	0.8	<0.5	11	1	<0.5	<2	<0.5	<0.5	5	230	-	16,000	
TW-06	10/27/2014	9.86	6.39	-	-	-	-	3.47	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/07/2014	9.86	6.83	-	-	-	-	3.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/12/2014	9.86	6.85	-	-	-	-	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/21/2014	9.86	7.28	-	-	-	-	2.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/26/2014	9.86	7.02	-	-	-	-	2.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	12/05/2014	9.86	5.85	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	12/11/2014	9.86	5.75	-	-	-	-	4.11	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-06	12/16/2014	9.86	6.18	-	-	-	-	3.68	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	12/23/2014	9.86	6.36	-	-	-	-	3.50	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	12/30/2014	9.86	5.85	-	-	-	-	4.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	01/09/2015	9.86	6.52	-	-	-	-	3.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	01/16/2015	9.86	5.77	-	-	-	-	4.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	01/19/2015	9.86	5.46	-	-	-	-	4.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	01/26/2015	9.86	4.69	-	-	-	-	5.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/03/2015	9.86	6.39	-	-	-	12.58	3.47	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/09/2015	9.86	6.62	-	-	-	-	3.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/18/2015	9.86	6.89	-	-	-	-	2.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/24/2015	9.86	6.90	-	-	-	-	2.96	14:54	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/04/2015	9.86	6.43	-	-	-	-	3.43	13:00	2	<0.5	6	<0.5	<0.5	<2	<0.5	<0.5	<0.03	170	-	2,200	
TW-06	03/11/2015	9.86	4.47	-	-	-	-	5.39	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/18/2015	9.86	5.33	-	-	-	-	4.53	10:29	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/26/2015	9.86	6.13	-	-	-	12.60	3.73	12:27	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/02/2015	9.86	6.20	-	-	-	12.65	3.66	10:32	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/08/2015	9.86	6.66	-	-	-	12.62	3.20	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/13/2015	9.86	6.76	-	-	-	-	3.10	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/23/2015	9.86	5.62	-	-	-	12.60	4.24	10:47	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	04/29/2015	9.86	6.22	-	-	-	12.65	3.64	13:19	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/04/2015	9.86	6.14	-	-	-	-	3.72	10:56	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/11/2015	9.86	6.38	-	-	-	12.70	3.48	15:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/13/2015	9.86	NR	-	-	-	-	-	-	2	<0.5	4	<0.5	<0.5	<2	<0.5	<0.5	4	130	-	2,300	
TW-06	05/21/2015	9.86	6.24	-	-	-	12.65	3.62	13:09	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/28/2015	9.86	6.79	-	-	-	12.60	3.07	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/02/2015	9.86	4.41	-	-	-	-	5.45	12:21	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/09/2015	9.86	5.28	-	-	-	-	4.58	9:51	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/16/2015	9.86	6.24	-	-	-	-	3.62	10:41	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/26/2015	9.86	5.08	-	-	-	12.70	4.78	8:49	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/01/2015	9.86	3.55	-	-	-	-	6.31	11:41	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/08/2015	9.86	4.88	-	-	-	-	4.98	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/13/2015	9.86	4.78	-	-	-	-	5.08	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/20/2015	9.86	5.93	-	-	-	-	3.93	8:46	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/28/2015	9.86	6.31	-	-	-	12.61	3.55	12:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/04/2015	9.86	6.34	-	-	-	12.64	3.52	12:07	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/06/2015	9.86	NR	-	-	-	-	-	-	2	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	2	81	-	1,400	
TW-06	08/11/2015	9.86	6.15	-	-	-	12.64	3.71	12:35	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-06	08/18/2015	9.86	6.58	-	-	-	-	3.28	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/24/2015	9.86	6.51	-	-	-	-	3.35	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/02/2015	9.86	6.65	-	-	-	12.06	3.21	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/09/2015	9.86	6.02	-	-	-	12.66	3.84	14:03	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/17/2015	9.86	6.85	-	-	-	12.69	3.01	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/23/2015	9.86	6.69	-	-	-	-	3.17	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/28/2015	9.86	6.27	-	-	-	12.61	3.59	10:41	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	10/05/2015	9.86	5.70	-	-	-	12.63	4.16	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/10/2015	9.86	6.65	-	-	-	-	3.21	12:32	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	12/01/2015	9.86	6.55	-	-	-	12.62	3.31	13:22	0.8 J	<0.5	1	<0.5	<0.5	<2	<0.5	<0.5	0.8	92	-	1,300	
TW-06	02/15/2016	9.86	6.60	-	-	-	-	3.26	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/14/2016	9.86	6.57	-	-	-	12.63	3.29	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	03/15/2016	9.86	NR	-	-	-	-	-	-	0.8 J	<0.5	3	<0.5	<0.5	<2	<0.5	<0.5	1	110	-	43,000	
TW-06	04/21/2016	9.99	6.70	-	-	-	12.40	3.29	9:28	-	-	-	-	-	-	-	-	-	-	-	32,000	Sheen; Elevation change due to well being disturbed during construction activities
TW-06	05/05/2016	9.99	5.52	-	-	-	-	4.47	12:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/23/2016	9.99	4.77	-	-	-	-	5.22	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/24/2016	9.99	NR	-	-	-	-	-	-	<0.5	<0.5	4	<0.5	<0.5	<2	<0.5	<0.5	1	120	-	1,800	
TW-06	06/21/2016	9.99	6.93	-	-	-	-	3.06	11:17	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	07/21/2016	9.99	6.12	-	-	-	-	3.87	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/24/2016	9.99	6.88	-	-	-	12.88	3.11	9:54	-	-	-	-	-	-	-	-	-	-	-	1,500	
TW-06	08/25/2016	9.99	6.13	-	-	-	-	3.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	09/22/2016	9.99	6.89	-	-	-	-	3.10	14:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/28/2016	9.99	7.42	-	-	-	12.45	2.57	8:43	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/29/2016	9.99	NR	-	-	-	-	-	-	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	1,200	
TW-06	02/21/2017	9.99	7.00	-	-	-	12.46	2.99	12:09	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/22/2017	9.99	7.03	-	-	-	12.50	2.96	11:13	-	-	-	-	-	-	-	-	-	-	-	49,000	Sheen
TW-06	03/29/2017	9.99	6.65	-	-	-	12.45	3.34	13:15	-	-	-	-	-	-	-	-	-	-	-	10,000	
TW-06	05/22/2017	9.99	5.82	-	-	-	12.48	4.17	13:11	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/23/2017	9.99	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.70	<20	-	1,500	
TW-06	08/28/2017	9.99	9.72	-	-	-	12.54	0.27	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/30/2017	9.99	9.64	-	-	-	12.51	0.35	11:17	-	-	-	-	-	-	-	-	-	-	-	9,540	
TW-06	11/28/2017	9.99	8.58	-	-	-	12.60	1.41	11:15	-	-	-	-	-	-	-	-	-	-	5,670	7,350	
TW-06	02/20/2018	9.99	5.78	-	-	-	12.70	4.21	10:30	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-06	02/21/2018	9.99	5.88	-	-	-	-	4.11	12:46	-	-	-	-	-	-	-	-	-	-	2,320	6,620	
TW-06	05/21/2018	9.99	3.31	-	-	-	-	6.68	14:18	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/22/2018	9.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,680	
TW-06	05/24/2018	9.99	3.78	-	-	-	-	6.21	13:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	06/01/2018	9.99	5.04	-	-	-	-	4.95	9:08	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/13/2018	9.99	5.27	-	-	-	-	4.72	11:44	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/14/2018	9.99	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	0.70	33 J	-	1,700	
TW-06	11/12/2018	9.99	4.10	-	-	-	-	5.89	12:49	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	11/13/2018	9.99	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.02	<11	-	340	
TW-07	12/16/2013	14.00	NR	-	-	-	-	-	-	2.38	ND	0.97	ND	ND	-	-	-	34.00	-	-	3,290	
TW-07	12/18/2013	14.00	7.56	-	-	-	-	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	01/08/2014	14.00	7.91	-	-	-	-	6.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	03/07/2014	14.00	6.91	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	03/13/2014	14.00	7.40	-	-	-	-	6.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	03/20/2014	14.00	6.78	-	-	-	-	7.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	03/27/2014	14.00	7.56	-	-	-	-	6.44	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	04/03/2014	14.00	5.67	-	-	-	-	8.33	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	04/08/2014	14.00	6.77	-	-	-	-	7.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	04/17/2014	14.00	5.51	-	-	-	-	8.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	04/22/2014	14.00	6.75	-	-	-	-	7.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	04/29/2014	14.00	6.60	-	-	-	-	7.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/05/2014	14.00	5.41	-	-	-	-	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/12/2014	14.00	6.89	-	-	-	-	7.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/19/2014	14.00	6.16	-	-	-	-	7.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/27/2014	14.00	6.70	-	-	-	-	7.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	06/02/2014	14.00	6.94	-	-	-	-	7.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	06/09/2014	14.00	7.81	-	-	-	-	6.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	06/16/2014	14.00	6.47	-	-	-	-	7.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	06/23/2014	14.00	6.69	-	-	-	-	7.31	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	07/02/2014	14.00	7.00	-	-	-	-	7.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	07/07/2014	14.00	7.27	-	-	-	13.42	6.73	-	-	-	-	-	-	-	-	-	-	-	-	41,500	
TW-07	07/14/2014	14.00	6.70	-	-	-	-	7.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	07/25/2014	14.00	7.33	-	-	-	13.30	6.67	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	07/31/2014	14.00	7.22	-	-	-	13.30	6.78	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/08/2014	14.00	7.39	-	-	-	-	6.61	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/11/2014	14.00	7.17	-	-	-	13.20	6.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/15/2014	14.00	7.05	-	-	-	-	6.95	-	-	-	-	-	-	-	-	-	-	-	-	19,600	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-07	08/18/2014	14.00	7.14	-	-	-	-	6.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/25/2014	9.88	6.87	-	-	-	-	3.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	09/02/2014	9.88	7.43	-	-	-	-	2.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	09/15/2014	9.88	7.33	-	-	-	-	2.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	09/22/2014	9.88	7.28	-	-	-	-	2.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	10/01/2014	9.88	7.38	-	-	-	12.98	2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	10/13/2014	9.88	7.30	-	-	-	-	2.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	10/20/2014	9.88	7.49	-	-	-	12.97	2.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	10/23/2014	9.88	NR	-	-	-	-	-	-	2.00	<0.5	0.60	<0.5	<0.5	<2	<0.5	<0.5	6.00	0:00	-	4,700	
TW-07	02/24/2015	9.88	7.45	-	-	-	-	2.43	14:52	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	03/04/2015	9.88	NR	-	-	-	-	-	-	9.00	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.20	46 J	-	670	
TW-07	05/11/2015	9.88	6.92	-	-	-	12.70	2.96	15:27	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/13/2015	9.88	NR	-	-	-	-	-	-	10.00	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	3 J	36 J	-	320	
TW-07	08/04/2015	9.88	6.88	-	-	-	12.74	3.00	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/05/2015	9.88	NR	-	-	-	-	-	-	7.00	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	2.00	0:00	-	220	
TW-07	12/01/2015	9.88	5.97	-	-	-	12.99	3.91	13:24	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	12/02/2015	9.88	NR	-	-	-	-	-	-	3.00	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	1.00	<20	-	110	
TW-07	03/14/2016	9.88	7.13	-	-	-	13.05	2.75	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	03/15/2016	9.88	NR	-	-	-	-	-	-	3.00	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	-	160	
TW-07	05/05/2016	9.88	6.53	-	-	-	-	3.35	12:24	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/23/2016	9.88	5.13	-	-	-	-	4.75	10:46	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/24/2016	9.88	NR	-	-	-	-	-	-	3.00	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	20 J	-	160*	
TW-07	05/25/2016	9.88	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<45*	
TW-07	08/24/2016	9.88	7.52	-	-	-	13.20	2.36	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/25/2016	9.88	7.19	-	-	-	-	2.69	-	-	-	-	-	-	-	-	-	-	-	-	340	
TW-07	09/22/2016	9.88	7.30	-	-	-	-	2.58	14:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	11/28/2016	9.88	7.87	-	-	-	13.45	2.01	8:44	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	11/30/2016	9.88	NR	-	-	-	-	-	-	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	-	59 J	
TW-07	02/21/2017	9.88	7.87	-	-	-	13.45	2.01	12:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	02/22/2017	9.88	7.71	-	-	-	13.51	2.17	10:36	-	-	-	-	-	-	-	-	-	-	-	820	
TW-07	05/22/2017	9.88	6.68	-	-	-	13.53	3.20	13:03	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	05/23/2017	9.88	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	-	86 J	
TW-07	08/28/2017	9.88	9.66	-	-	-	13.48	0.22	0.43	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/30/2017	9.88	9.63	-	-	-	13.48	0.25	10:55	-	-	-	-	-	-	-	-	-	-	-	16,300	
TW-07	11/28/2017	9.88	9.42	-	-	-	13.60	0.46	11:10	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	11/30/2017	9.88	9.80	-	-	-	13.35	0.08	11:40	-	-	-	-	-	-	-	-	-	-	1,780	849	
TW-07	02/20/2018	9.88	6.77	-	-	-	13.65	3.11	10:20	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-07	02/21/2018	9.88	6.80	-	-	-	-	3.08	12:42	-	-	-	-	-	-	-	-	-	-	228	868	
TW-07	05/21/2018	9.88	4.90	-	-	-	-	4.98	14:07	-	-	-	-	-	-	-	-	-	-	-	241	
TW-07	08/13/2018	9.88	6.20	-	-	-	-	3.68	11:38	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.09	<11	-	200	
TW-07	11/12/2018	9.88	5.44	-	-	-	-	4.44	12:46	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	0.06	<11	-	260	
TW-08S	12/18/2013	36.75	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	01/08/2014	36.75	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	03/07/2014	36.75	24.14	-	-	-	-	12.61	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	03/13/2014	36.75	24.06	-	-	-	-	12.69	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	03/20/2014	36.75	24.37	-	-	-	-	12.38	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	03/27/2014	36.75	24.54	-	-	-	-	12.21	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	04/03/2014	36.75	24.26	-	-	-	-	12.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	04/08/2014	36.75	23.85	-	-	-	-	12.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	04/17/2014	36.75	24.13	-	-	-	-	12.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	04/22/2014	36.75	23.92	-	-	-	-	12.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	04/29/2014	36.75	23.91	-	-	-	-	12.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	05/05/2014	36.75	22.89	-	-	-	-	13.86	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	05/12/2014	36.75	23.02	-	-	-	-	13.73	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	05/19/2014	36.75	22.90	-	-	-	-	13.85	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	06/02/2014	36.75	23.24	-	-	-	-	13.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	06/09/2014	36.75	23.21	-	-	-	-	13.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	06/16/2014	36.75	22.40	-	-	-	-	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	06/23/2014	36.75	22.41	-	-	-	-	14.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	07/02/2014	36.75	22.40	-	-	-	-	14.35	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	07/07/2014	36.75	22.65	-	-	-	25.85	14.10	-	-	-	-	-	-	-	-	-	-	-	-	29,500	
TW-08S	07/14/2014	36.75	23.23	-	-	-	-	13.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	07/24/2014	36.75	23.09	-	-	-	-	13.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	07/31/2014	36.75	23.26	-	-	-	25.82	13.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-08S	08/07/2014	Overdrilled and replaced with MW-72S																				
TW-09S	12/18/2013	36.65	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	01/08/2014	36.65	DRY	25.54	0.46	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	03/07/2014	36.65	24.71	24.70	0.01	-	-	11.95	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	03/13/2014	36.65	25.78	24.71	1.07	0.10	-	11.81	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	03/20/2014	36.65	DRY	25.65	0.50	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	03/27/2014	36.65	DRY	25.58	0.54	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	04/03/2014	36.65	23.37	23.18	0.19	0.10	-	13.45	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	04/08/2014	36.65	23.39	23.23	0.16	0.10	-	13.40	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	04/17/2014	36.65	23.72	23.66	0.06	-	-	12.99	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-09S	04/22/2014	36.65	23.53	23.40	0.13	0.10	-	13.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	04/29/2014	36.65	23.76	23.68	0.08	-	-	12.96	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	05/05/2014	36.65	23.23	23.17	0.06	-	-	13.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	05/12/2014	36.65	23.25	23.23	0.02	-	-	13.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	05/19/2014	36.65	23.17	23.16	0.01	-	-	13.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	06/02/2014	36.65	23.19	-	-	-	-	13.46	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	06/09/2014	36.65	23.17	-	-	-	-	13.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	06/16/2014	36.65	23.13	-	-	-	-	13.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	06/23/2014	36.65	23.11	-	-	-	-	13.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	07/02/2014	36.65	23.03	23.03	TRACE	TRACE	-	13.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	07/07/2014	36.65	23.01	-	-	-	26.15	13.64	-	-	-	-	-	-	-	-	-	-	-	-	2,330,000	
TW-09S	07/14/2014	36.65	23.02	-	-	-	-	13.63	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-09S	07/23/2014	Overdrilled and replaced with MW-08S																				
TW-10	12/18/2013	37.28	30.31	-	-	-	-	6.97	-	2.51	ND	19.7	4.99	ND	-	-	-	131	-	-	3,040	
TW-10	01/08/2014	37.28	30.56	-	-	-	-	6.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	03/07/2014	37.28	29.70	-	-	-	-	7.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	03/13/2014	37.28	30.08	-	-	-	-	7.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	03/20/2014	37.28	29.22	-	-	-	-	8.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	03/27/2014	37.28	30.13	-	-	-	-	7.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	04/03/2014	37.28	29.08	-	-	-	-	8.20	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	04/08/2014	37.28	29.14	-	-	-	-	8.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	04/17/2014	37.28	29.66	-	-	-	-	7.62	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	04/22/2014	37.28	29.12	-	-	-	-	8.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	04/29/2014	37.28	28.96	-	-	-	-	8.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	05/05/2014	37.28	29.22	-	-	-	-	8.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	05/12/2014	37.28	29.06	-	-	-	-	8.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	05/19/2014	37.28	29.02	-	-	-	-	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	06/02/2014	37.28	28.99	-	-	-	-	8.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	06/09/2014	37.28	28.89	-	-	-	-	8.39	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	06/16/2014	37.28	29.02	-	-	-	-	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	06/23/2014	37.28	28.86	-	-	-	-	8.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	07/02/2014	37.28	28.87	-	-	-	-	8.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	07/07/2014	37.28	29.12	-	-	-	36.47	8.16	-	-	-	-	-	-	-	-	-	-	-	-	23,400	
TW-10	07/14/2014	37.28	28.68	-	-	-	-	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-10	07/21/2014	Overdrilled and replaced with MW-27																				
TW-11	12/18/2013	37.39	26.40	-	-	-	-	10.99	-	1.55	0.664	8.3	9.67	0.578	-	-	-	263	-	-	170,000	
TW-11	01/08/2014	37.39	27.73	-	-	-	-	9.66	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-11	03/07/2014	37.39	29.17	-	-	-	-	8.22	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	03/13/2014	37.39	27.56	-	-	-	-	9.83	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	03/20/2014	37.39	27.15	-	-	-	-	10.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	03/27/2014	37.39	27.40	-	-	-	-	9.99	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	04/03/2014	37.39	26.28	26.26	0.02	0.10	-	11.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	04/08/2014	37.39	26.52	-	-	-	-	10.87	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	04/17/2014	37.39	26.85	-	-	-	-	10.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	04/22/2014	37.39	27.09	-	-	-	-	10.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	04/29/2014	37.39	27.39	-	-	-	-	10.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	05/05/2014	37.39	26.26	26.24	0.02	-	-	11.14	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	05/12/2014	37.39	26.97	-	-	-	-	10.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	05/19/2014	37.39	25.91	25.90	0.01	-	-	11.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	06/02/2014	37.39	26.32	26.31	0.01	-	-	11.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	06/09/2014	37.39	25.23	-	-	-	-	12.16	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	06/16/2014	37.39	25.35	25.36	0.01	-	-	12.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	06/23/2014	37.39	26.55	-	-	-	-	10.84	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	07/02/2014	37.39	26.91	26.91	TRACE	-	-	10.48	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
TW-11	07/07/2014	37.39	27.08	-	-	-	37.10	10.31	-	-	-	-	-	-	-	-	-	-	-	-	117,000	
TW-11	07/14/2014	37.39	26.95	26.95	TRACE	-	-	10.44	-	-	-	-	-	-	-	-	-	-	-	-	-	LNAPL NMB
TW-11	07/24/2014	37.39	26.88	-	-	-	-	10.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	07/31/2014	37.39	27.10	-	-	-	37.02	10.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-11	08/05/2014	Overdrilled and replaced with MW-31																				
TW-12S	12/18/2013	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	01/08/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	03/07/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	03/13/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	03/20/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	03/27/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	04/03/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	04/08/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	04/17/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	04/22/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	04/29/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	05/05/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	05/12/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	05/19/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	06/02/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-12S	06/09/2014	38.01	DRY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	06/16/2014	38.01	26.37	-	-	-	-	11.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	06/23/2014	38.01	26.37	-	-	-	-	11.64	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	07/02/2014	38.01	26.40	-	-	-	-	11.61	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	07/07/2014	38.01	26.40	-	-	-	26.60	11.61	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	07/14/2014	38.01	26.48	-	-	-	-	11.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	07/24/2014	38.01	26.48	-	-	-	-	11.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	07/31/2014	38.01	26.48	-	-	-	26.56	11.53	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	08/08/2014	38.01	26.49	-	-	-	26.60	11.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	08/11/2014	38.01	26.47	-	-	-	-	11.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	08/15/2014	38.01	26.47	-	-	-	26.58	11.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	08/18/2014	38.01	26.47	-	-	-	-	11.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	08/25/2014	38.01	26.47	-	-	-	-	11.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	09/02/2014	31.33	24.84	-	-	-	24.97	6.49	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	09/15/2014	31.33	24.82	-	-	-	-	6.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	09/22/2014	31.33	24.83	-	-	-	-	6.50	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	10/01/2014	31.33	24.81	-	-	-	24.91	6.52	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	10/10/2014	31.33	24.82	-	-	-	-	6.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	10/20/2014	31.33	24.82	-	-	-	24.92	6.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	02/24/2015	31.33	24.81	-	-	-	-	6.52	15:47	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	05/11/2015	31.33	24.82	-	-	-	24.90	6.51	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	08/04/2015	31.33	24.78	-	-	-	25.00	6.55	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	12/01/2015	31.33	24.82	-	-	-	24.92	6.51	11:32	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	03/14/2016	31.33	24.76	-	-	-	25.00	6.57	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	05/23/2016	31.33	24.75	-	-	-	24.90	6.58	11:19	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	05/25/2016	31.33	24.69	-	-	-	24.91	6.64	12:08	-	-	-	-	-	-	-	-	-	-	-	-	DRY
TW-12S	08/24/2016	31.33	24.71	-	-	-	24.94	6.62	12:11	-	-	-	-	-	-	-	-	-	-	-	-	
TW-12S	08/25/2016	31.33	24.72	-	-	-	24.94	6.61	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
TW-12S	08/30/2016	31.33	24.73	-	-	-	24.93	6.60	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY
TW-12S	11/28/2016	31.33	24.75	-	-	-	25.04	6.58	10:43	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	11/29/2016	31.33	DRY	-	-	-	24.92	-	11:10	-	-	-	-	-	-	-	-	-	-	-	-	DRY
TW-12S	12/07/2016	31.33	24.77	-	-	-	24.93	6.56	12:14	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	02/21/2017	31.33	24.72	-	-	-	24.94	6.61	11:50	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	02/22/2017	31.33	24.76	-	-	-	24.94	6.57	12:46	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	05/22/2017	31.33	DRY	-	-	-	24.93	-	11:36	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	08/28/2017	31.33	24.75	-	-	-	24.95	6.58	12:10	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	11/28/2017	31.33	24.74	-	-	-	24.95	6.59	13:28	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-12S	02/20/2018	31.33	24.75	-	-	-	24.94	6.58	11:32	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	05/21/2018	31.33	24.70	-	-	-	24.95	6.63	11:47	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	08/13/2018	31.33	24.83	-	-	-	25.11	6.50	10:25	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	11/12/2018	31.33	24.30	-	-	-	25.00	7.03	10:07	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-13	12/18/2013	36.99	NR	-	-	-	-	-	-	6.06	ND	44.5	137	ND	-	-	-	239	-	-	3,580	
TW-13	01/08/2014	36.99	30.45	-	-	-	-	6.54	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	03/07/2014	36.99	29.11	-	-	-	-	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	03/13/2014	36.99	29.91	-	-	-	-	7.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	03/20/2014	36.99	29.09	-	-	-	-	7.90	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	03/27/2014	36.99	29.98	-	-	-	-	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	04/03/2014	36.99	29.05	-	-	-	-	7.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	04/08/2014	36.99	29.98	-	-	-	-	7.01	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	04/17/2014	36.99	29.62	-	-	-	-	7.37	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	04/22/2014	36.99	28.93	-	-	-	-	8.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	04/29/2014	36.99	28.90	-	-	-	-	8.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	05/05/2014	36.99	29.95	-	-	-	-	7.04	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	05/12/2014	36.99	28.91	-	-	-	-	8.08	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	05/19/2014	36.99	28.87	-	-	-	-	8.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	06/02/2014	36.99	28.86	-	-	-	-	8.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	06/09/2014	36.99	28.73	-	-	-	-	8.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	06/16/2014	36.99	28.88	-	-	-	-	8.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	06/23/2014	36.99	28.65	-	-	-	-	8.34	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	07/02/2014	36.99	28.69	-	-	-	-	8.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	07/07/2014	36.99	28.91	-	-	-	35.02	8.08	-	-	-	-	-	-	-	-	-	-	-	-	17,500	
TW-13	07/14/2014	36.99	28.58	-	-	-	-	8.41	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-13	07/29/2014	Overdrilled and replaced with MW-14																				
TW-14	01/17/2014	15.55	2.48	-	-	-	-	13.07	-	<0.5	<0.5	<0.5	<0.5	0.536	-	-	-	ND	-	-	2,290	
TW-14	03/07/2014	15.55	2.29	-	-	-	-	13.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	03/13/2014	15.55	2.55	-	-	-	-	13.00	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	03/20/2014	15.55	2.25	-	-	-	-	13.30	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	03/27/2014	15.55	2.42	-	-	-	-	13.13	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/03/2014	15.55	2.31	-	-	-	-	13.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/08/2014	15.55	2.27	-	-	-	-	13.28	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/17/2014	15.55	2.26	-	-	-	-	13.29	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/22/2014	15.55	2.48	-	-	-	-	13.07	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	04/29/2014	15.55	2.66	-	-	-	-	12.89	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	05/05/2014	15.55	2.56	-	-	-	-	12.99	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-14	05/12/2014	15.55	2.58	-	-	-	-	12.97	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	05/19/2014	15.55	2.38	-	-	-	-	13.17	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	06/02/2014	15.55	2.52	-	-	-	-	13.03	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	06/09/2014	15.55	2.50	-	-	-	-	13.05	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	06/16/2014	15.55	2.31	-	-	-	-	13.24	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	06/23/2014	15.55	2.44	-	-	-	-	13.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	07/02/2014	15.55	4.63	-	-	-	-	10.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	07/07/2014	15.55	4.65	-	-	-	7.27	10.90	-	-	-	-	-	-	-	-	-	-	-	-	16,000	
TW-14	07/14/2014	15.55	4.40	-	-	-	-	11.15	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	07/24/2014	15.55	4.46	-	-	-	-	11.09	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	07/31/2014	15.55	4.63	-	-	-	7.39	10.92	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/08/2014	15.55	4.43	-	-	-	7.39	11.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/11/2014	15.55	4.57	-	-	-	-	10.98	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/15/2014	15.55	4.36	-	-	-	7.39	11.19	-	-	-	-	-	-	-	-	-	-	-	-	3,900	
TW-14	08/18/2014	15.55	4.49	-	-	-	-	11.06	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/25/2014	11.61	3.01	-	-	-	-	8.60	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	09/02/2014	11.61	3.03	-	-	-	-	8.58	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	09/15/2014	11.61	3.19	-	-	-	-	8.42	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	09/22/2014	11.61	3.38	-	-	-	-	8.23	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	10/01/2014	11.61	3.50	-	-	-	5.90	8.11	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	10/10/2014	11.61	3.67	-	-	-	-	7.94	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	10/20/2014	11.61	3.02	-	-	-	5.90	8.59	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	10/21/2014	11.61	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	-	100	-	670	
TW-14	02/24/2015	11.61	2.67	-	-	-	-	8.94	15:29	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	02/26/2015	11.61	2.68	-	-	-	5.90	8.93	12:00	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.03	73	-	120	
TW-14	05/11/2015	11.61	3.28	-	-	-	6.90	8.33	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	05/12/2015	11.61	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	7.00	<0.5	<0.5	<1	220	-	2,000	
TW-14	08/04/2015	11.61	3.37	-	-	-	5.98	8.24	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/11/2015	11.61	3.65	-	-	-	6.00	7.96	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/13/2015	11.61	NR	-	-	-	-	-	-	1	<0.5	<0.5	<0.5	<0.5	9	<0.5	<0.5	<0.08	130	-	3,700	
TW-14	08/18/2015	11.61	3.83	-	-	-	-	7.78	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	12/01/2015	11.61	2.76	-	-	-	-	8.85	9:15	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.04	<20	-	<45	
TW-14	03/14/2016	11.61	2.80	-	-	-	6.02	8.81	10:11	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	-	54 J	
TW-14	05/23/2016	11.61	2.71	-	-	-	6.00	8.90	11:24	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	22 J	-	45 J	
TW-14	08/24/2016	11.61	3.05	-	-	-	-	8.56	-	-	-	-	-	-	-	-	-	-	-	-	<45	
TW-14	11/28/2016	11.61	4.07	-	-	-	6.03	7.54	11:24	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	12/01/2016	11.61	NR	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	NT	NT	NT	NT	<0.08	<20	-	480	

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments
TW-14	02/21/2017	11.61	3.31	-	-	-	6.03	8.30	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	02/22/2017	11.61	3.33	-	-	-	6.04	8.28	12:03	-	-	-	-	-	-	-	-	-	-	-	220	
TW-14	05/22/2017	11.61	3.16	-	-	-	-	8.45	9:45	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<20	-	<45	
TW-14	08/28/2017	11.61	3.00	-	-	-	6.05	8.61	11:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/30/2017	11.61	2.69	-	-	-	6.05	8.92	10:23	-	-	-	-	-	-	-	-	-	-	-	902	
TW-14	11/29/2017	11.61	-	-	-	-	-	-	-	<0.50	<1.0	<1.0	<1.0	-	-	-	-	<5.0	-	-	300	
TW-14	02/20/2018	11.61	3.06	-	-	-	-	8.55	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	02/21/2018	11.61	3.26	-	-	-	6.08	8.35	13:30	-	-	-	-	-	-	-	-	-	-	-	4,130	
TW-14	05/21/2018	11.61	3.08	-	-	-	-	8.53	10:08	-	-	-	-	-	-	-	-	-	-	-	202	
TW-14	08/13/2018	11.61	2.73	-	-	-	6.03	8.88	10:54	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.08	<11	-	<45	
TW-14	11/12/2018	11.61	2.98	-	-	-	6.03	8.63	11:00	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	<11	-	<53	

Notes:
Specific gravity was tested at MW-05 and MW-25, and the average specific gravity (0.878) is used for groundwater elevation adjustments.
Active P&T Wells: RW-05, RW-14, RW-25, and RW-51

- = No data available
<# = Result less than the method detection limit (#), i.e. non-detect
µg/L = Micrograms per liter
J = Result 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
TPH-DRO - Silica Gel = Total Petroleum Hydrocarbons, Diesel Range Organics C10-C28 (SW-896 8015B) with Silica Gel Cleanup (3630C)
$(Date)^{H}$ = Well sampled during the Potomac River's high tide.
$(Date)^{L}$ = Well sampled during the Potomac River's low tide.
ft = feet
gal = gallons
DRY = No water for sampling.
Insufficient GW = Insufficient Groundwater (GW) Volume (Vol.) for sampling
GW = Groundwater
LNAPL = Light Non-Aqueous Phase Liquid
NR = Not recorded
TRACE = LNAPL thickness is less than 0.01 feet
VO = Vegetation Overgrowth (could not locate well to gauge and/or sample).
NMB = Not Manually Bailed
NT = Not Tabulated, laboratory data results available.

Table 3

HISTORICAL GROUNDWATER MONITORING AND ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Top of Casing (ft)	Depth to Water (DTW) (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Volume of LNAPL Recovered (gal)	Depth to Bottom (DTB) - Measured Depth (ft)	Groundwater Elevation (ft)	Gauging Time	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 - Silica Gel (µg/L)	TPH-DRO (µg/L)	Comments

OBS = Obstruction in well.
B = Analyte was detected in the Method Blank.
9/25/2018 = TPE wells were being adjusted during installation, groundwater elevation not calcuated.

Table 4

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	-
MW-01S	10/20/2014	1.0	6.3	10.1	10.3	-	-	-	-	-	-
MW-01S	10/22/2014	-	-	-	-	0.80	6.63	17.81	-91.6	369	-
MW-01S	02/24/2015	8.4	3.0	12.2	26.6	0.10	6.53	16.31	-172.6	724	-
MW-01S	05/11/2015	64.8	1.6	10.8	27.8	PRODUCT					
MW-01S	08/04/2015	11.4	8.9	7.2	9.2	PRODUCT					
MW-01S	03/14/2016	78.8	3.5	10.8	2.2	0.13	6.65	16.46	-104.0	860	-
MW-01S	04/21/2016	14.8	20.8	0.3	0.1	0.11	6.62	16.14	-57.6	970	-
MW-01S	05/23/2016	0.0	20.9	0.0	0.0	PRODUCT					
MW-01S	08/24/2016	1.8	-	-	-	0.76	6.61	16.50	-127.8	1,040	-
MW-01S	08/30/2016	64.3	22.6	0.1	0.1	-	-	-	-	-	-
MW-01S	11/28/2016	-	-	-	-	1.47	7.12	17.44	-84.0	1,017	-
MW-01S	12/08/2016	0.3	20.9	0.0	0.0	-	-	-	-	-	-
MW-01S	02/21/2017	1.2	20.9	0.9	0.0	0.12	6.70	17.36	-23.3	1,000	-
MW-01S	05/22/2017	1.7	20.9	0.0	0.0	4.25	6.85	16.69	-88.9	969.5	-
MW-01S	07/10/2017	-	-	-	-	-	6.77	-	-	-	-
MW-01S	08/28/2017	7.4	20.9	0.0	0.0	3.8	6.42	18.43	32.7	453.1	-
MW-01S	11/28/2017	0.8	21.3	0.0	0.0	5.3	6.51	16.14	-99.9	560.0	-
MW-01S	02/20/2018	0.0	20.9	0.0	0.0	-	-	-	-	-	-
MW-01S	02/21/2018	-	-	-	-	2.06	6.89	17.50	69.8	90	-
MW-01S	05/21/2018	0.0	16.4	1.6	0.0	0.05	8.64	17.46	-135.90	865.9	-
MW-01S	08/13/2018	0.0	9.0	2.6	0.0	0.10	6.84	17.32	-36.80	1,040	-
MW-01S	10/02/2018	-	-	-	-	-	6.33	-	-	-	-
MW-01S	10/18/2018	-	-	-	-	-	6.85	-	-	-	-
MW-01S	11/12/2018	4.2	19.1	1.2	0.0	2.6	7.92	15.6	20.8	836.0	-
MW-01S	11/27/2018	-	-	-	-	-	6.18	-	-	-	-
MW-01S	01/10/2019	-	-	-	-	-	7.22	-	-	-	-

Table 4

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/RW-05	10/13/2014	15.9	13.0	-	-	PRODUCT					
MW/RW-05	10/15/2014	137.0	9.6	-	-	PRODUCT					
MW/RW-05	02/24/2015	11.4	1.0	15.9	25.3	PRODUCT					
MW/RW-05	05/11/2015	90.2	5.8	11.1	19.6	PRODUCT					
MW/RW-05	08/04/2015	71.9	18.2	1.9	2.1	PRODUCT					
MW/RW-05	12/01/2015	12.8	2.6	15.1	26.6	PRODUCT					
MW/RW-05	03/14/2016	98.8	19.8	0.7	0.4	PRODUCT					
MW/RW-05	05/23/2016	0.2	20.8	0.0	0.0	8.46	3.48	16.03	385.0	3,150	-
MW/RW-05	08/24/2016	6.4	-	-	-	2.69	6.53	19.98	15.2	640	-
MW/RW-05	08/30/2016	47.4	21.6	0.1	10.0	-	-	-	-	-	-
MW/RW-05	11/28/2016	0.7	20.9	0.2	0.0		4.35	17.10	229.5	1,280	-
MW/RW-05	02/21/2017	1.3	20.9	0.0	0.0	11.84	5.34	13.18	60.0	950	-
MW/RW-05	05/22/2017	0.8	20.9	0.1	0.0	9.70	6.55	16.62	11.2	612.3	-
MW/RW-05	08/28/2017	11.4	20.9	0.1	0.0	3.40	3.77	18.84	137.5	2,369.8	-
MW/RW-05	11/28/2017	138.1	9.4	7.5	0.0	1.40	5.45	16.14	111.6	540.0	-
MW/RW-05	02/20/2018	72.5	7.1	5.7	0.0	-	-	-	-	-	-
MW/RW-05	02/21/2018	-	-	-	-	4.33	5.96	20.66	96.5	550	-
MW/RW-05	05/21/2018	52.4	8.9	3.8	0.0	-0.03	6.49	14.88	-62.6	1,751	-
MW/RW-05	08/13/2018	9.2	20.5	0.2	0.0	4.13	5.12	24.77	271.4	1,780	-
MW/RW-05	10/18/2018	-	-	-	-	-	6.58	-	-	-	-
MW/RW-05	11/12/2018	282.0	20.8	0.1	0.0	2.1	7.13	15.79	11.4	1,309	-
MW/RW-05	11/27/2018	-	-	-	-	-	6.14	-	-	-	-
MW/RW-05	01/10/2019	-	-	-	-	-	7.07	-	-	-	-
MW-08S	10/13/2014	21.0	14.5	-	-	0.89	6.68	18.18	-123.6	1,488	-
MW-08S	10/13/2014	-	-	-	-	0.81	6.70	18.26	-108.0	1,386	-
MW-08S	10/14/2014	-	-	-	-	0.16	6.77	18.18	-129.0	1,424	-

Table 4

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	10/15/2014	8.7	20.4	-	-	0.83	6.68	18.29	-105.8	1,325	-
MW-08S	10/15/2014	-	-	-	-	0.28	6.66	18.23	-113.1	1,408	-
MW-08S	10/20/2014	15.9	10.9	6.2	1.9	-	-	-	-	-	-
MW-08S	10/22/2014	-	-	-	-	1.24	6.59	18.27	-98.8	1,276	-
MW-08S	02/24/2015	49.3	0.4	13.8	15.4	-	-	-	-	-	-
MW-08S	02/25/2015	-	-	-	-	0.09	6.69	16.81	-137.5	1,236	-
MW-08S	08/29/2017	-	-	-	-	-	6.43	18.9	-	-	-
MW-08S	11/28/2017	-	-	-	-	-	6.42	-	-	-	-
MW-08S	02/20/2018	-	-	-	-	-	6.47	-	-	-	-
MW-08S	05/21/2018	-	-	-	-	-	6.23	-	-	-	-
MW/RW-10S	10/13/2014	23.1	17.0	-	-	0.75	6.59	18.17	-117.6	1,202	-
MW/RW-10S	10/13/2014	-	-	-	-	0.60	6.60	18.20	-113.0	1,185	-
MW/RW-10S	10/15/2014	8.3	20.4	-	-	0.41	6.54	18.23	-118.5	1,185	-
MW/RW-10S	10/15/2014	-	-	-	-	0.60	6.56	18.30	-104.5	1,189	-
MW/RW-10S	10/16/2014	18.5	20.9	-	-	-	-	-	-	-	-
MW/RW-10S	10/20/2014	25.2	15.2	3.7	0.2	-	-	-	-	-	-
MW/RW-10S	10/22/2014	-	-	-	-	1.30	6.48	18.44	-72.7	1,002	-
MW/RW-10S	02/24/2015	54.5	1.0	14.7	3.4	-	-	-	-	-	-
MW/RW-10S	05/11/2015	22.6	6.5	9.2	7.6	-	-	-	-	-	-
MW/RW-10S	08/04/2015	53.6	4.2	10.6	7.6	0.02	6.73	16.52	-90.0	1,440	-
MW/RW-10S	03/14/2016	134.2	19.4	1.2	0.4	0.14	6.59	15.38	-121.4	1,350	-
MW/RW-10S	04/21/2016	190.3	17.5	2.5	0.5	-	-	-	-	-	-
MW/RW-10S	05/23/2016	44.3	20.9	0.3	0.0	6.87	3.93	15.87	114.8	1,570	-
MW/RW-10S	08/24/2016	45.8	-	-	-	-	-	-	-	-	-
MW/RW-10S	08/30/2016	208.1	20.1	1.2	0.1	6.09	6.45	20.54	65.4	1,410	-
MW/RW-10S	11/28/2016	0.2	20.9	0.0	0.0	6.68	6.75	14.12	218.1	1,300	-

Table 4

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/RW-10S	02/21/2017	19.3	20.9	0.0	0.0	0.16	6.91	14.17	20.0	1,480	-
MW/RW-10S	05/22/2017	8.8	19.6	0.2	0.0	1.28	5.66	18.14	-4.9	1,667	-
MW/RW-10S	07/10/2017	-	-	-	-	-	4.99	-	-	-	-
MW/RW-10S	07/19/2017	-	-	-	-	-	5.15	-	-	-	-
MW/RW-10S	08/28/2017	1.3	20.4	0.1	0.0	2.01	5.20	18.69	91.7	2,785.9	-
MW/RW-10S	11/28/2017	10.3	21.4	0.0	0.0	2.77	5.36	16.24	61.8	2,870	-
MW/RW-10S	02/20/2018	0.3	20.9	0.0	0.0	-	-	-	-	-	-
MW/RW-10S	02/21/2018	-	-	-	-	2.93	6.29	17.04	-43.7	2,590	-
MW/RW-10S	05/21/2018	0.2	20.7	0.0	0.0	0.07	6.58	15.89	-37.6	3,229	-
MW/RW-10S	08/13/2018	1.0	16.0	1.6	0.0	0.05	6.27	16.27	-61.7	2,430	-
MW/RW-10S	10/02/2018	-	-	-	-	-	6.07	-	-	-	-
MW/RW-10S	10/18/2018	-	-	-	-	-	6.55	-	-	-	-
MW/RW-10S	11/12/2018	25.9	20.9	0.2	0.0	2.6	5.35	16.21	17.7	781	-
MW/RW-10S	11/27/2018	-	-	-	-	-	5.80	-	-	-	-
MW/RW-10S	01/10/2019	-	-	-	-	-	6.34	-	-	-	-
MW-11	10/13/2014	5.4	19.0	-	-	2.30	6.27	18.16	56.2	324	-
MW-11	10/13/2014	-	-	-	-	3.23	6.14	18.29	48.6	349	-
MW-11	10/15/2014	23.6	15.3	-	-	-	-	-	-	-	-
MW-11	10/20/2014	22.0	11.6	6.3	1.9	-	-	-	-	-	-
MW-11	10/22/2014	-	-	-	-	0.38	5.73	18.38	160.2	323	-
MW-11	02/24/2015	3.2	19.3	3.7	0.1	-	-	-	-	-	-
MW-11	02/25/2015	-	-	-	-	0.12	5.60	17.83	62.6	370	-
MW-11	05/11/2015	0.6	20.6	0.2	0.1	0.07	5.66	17.27	91.2	390	-
MW-11	08/04/2015	4.3	2.5	15.0	26.8	0.09	6.66	18.45	-39.8	1,150	-
MW/RW-14	10/13/2014	15.9	17.2	-	-	2.79	6.00	18.13	68.0	368	-
MW/RW-14	10/20/2014	82.4	14.4	3.7	1.3	-	-	-	-	-	-

Table 4

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/RW-14	10/22/2014	-	-	-	-	0.26	5.79	18.43	216.2	310	-
MW/RW-14	02/24/2015	188.0	14.4	0.9	0.4	-	-	-	-	-	-
MW/RW-14	02/25/2015	-	-	-	-	0.84	6.25	17.90	-98.6	460	-
MW/RW-14	05/11/2015	166.8	18.4	2.4	0.2	0.07	6.22	17.30	-69.6	420	-
MW/RW-14	08/04/2015	11.9	17.8	3.2	0.3	0.07	6.72	17.10	-69.4	1,100	-
MW/RW-14	03/14/2016	143.4	13.6	5.9	0.8	0.10	6.35	16.95	-84.7	490	-
MW/RW-14	04/21/2016	503.7	20.4	1.5	0.8	PRODUCT					
MW/RW-14	05/23/2016	132.0	20.8	0.3	0.2	PRODUCT					
MW/RW-14	08/24/2016	550.3	-	-	-	7.06	5.76	18.95	103.60	190	-
MW/RW-14	08/30/2016	101.8	21.7	0.0	0.1	-	-	-	-	-	-
MW/RW-14	11/28/2016	0.8	20.9	0.2	0.0	11.69	5.94	14.91	87.9	209	-
MW/RW-14	02/21/2017	61.3	20.9	0.0	0.0	11.32	6.02	15.48	41.6	190	-
MW/RW-14	05/22/2017	58.0	20.5	0.2	0.0	7.60	6.20	17.65	128.7	171	-
MW/RW-14	08/28/2017	10.0	20.9	0.0	0.0	3.99	7.19	18.43	69.1	415.8	-
MW/RW-14	11/28/2017	47.5	20.9	0.1	0.0	8.49	5.72	16.44	86.9	270.0	-
MW/RW-14	02/20/2018	3.4	20.9	0.0	0.0	-	-	-	-	-	-
MW/RW-14	02/21/2018	-	-	-	-	5.68	5.82	17.32	132.2	160	-
MW/RW-14	05/21/2018	1.2	20.7	0.2	0.0	0.18	7.29	16.34	-63.9	454	-
MW/RW-14	08/13/2018	21.3	20.6	0.2	0.0	3.98	5.59	19.85	305.1	240	-
MW/RW-14	10/18/2018	-	-	-	-	-	6.85	-	-	-	-
MW/RW-14	11/12/2018	127.2	20.9	0.0	0.0	2.9	5.04	15.37	27.8	451	-
MW/RW-14	11/27/2018	-	-	-	-	-	5.85	-	-	-	-
MW/RW-14	01/10/2019	-	-	-	-	-	5.43	-	-	-	-
MW-15S	10/13/2014	34.0	12.4	-	-	0.84	6.32	18.03	-17.1	647	-
MW-15S	10/20/2014	18.2	2.2	11.6	0.0	-	-	-	-	-	-
MW-15S	10/22/2014	-	-	-	-	0.88	6.48	17.61	-37.4	989	-

Table 4

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-15S	08/29/2017	-	-	-	-	-	6.73	18.6	-	-	-
MW-15S	02/20/2018	-	-	-	-	-	6.35	-	-	-	-
MW-15S	05/21/2018	-	-	-	-	-	6.07	-	-	-	-
MW-15S	11/13/2018	-	-	-	-	-	6.84	-	-	-	-
MW-16S	10/10/2014	9.0	7.2	-	-	-	-	-	-	-	-
MW-16S	02/24/2015	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	-
MW-16	10/22/2014	-	-	-	-	0.87	5.79	17.75	211.0	681	30,200
MW-16	02/24/2015	0.0	20.9	0.3	0.1	2.62	5.92	17.57	101.8	1,010	-
MW-16	05/11/2015	-	-	-	-	0.49	5.83	17.05	112.4	830	-
MW-16	08/30/2017	-	-	-	-	-	5.57	18.6	-	-	-
MW-16	02/20/2018	-	-	-	-	-	5.41	-	-	-	-
MW-16	05/21/2018	-	-	-	-	-	5.78	-	-	-	-
MW-16	08/13/2018	-	-	-	-	-	6.18	-	-	-	-
MW-16	08/15/2018	-	-	-	-	-	5.80	-	-	-	-
MW-16	11/14/2018	-	-	-	-	-	6.32	-	-	-	-
MW-25S	10/13/2014	-	-	-	-	0.96	6.46	18.51	-84.0	914	-
MW-25S	10/13/2014	13.0	20.3	-	-	-	-	-	-	-	-
MW-25S	10/15/2014	192.0	19.3	-	-	-	-	-	-	-	-
MW-25S	10/16/2014	34.4	20.9	-	-	-	-	-	-	-	-
MW-25S	10/20/2014	30.2	16.6	3.4	0.3	-	-	-	-	-	-
MW-25S	02/24/2015	127.0	3.6	12.7	2.3	-	-	-	-	-	-
MW-25S	05/11/2015	51.8	6.5	8.3	6.4	-	-	-	-	-	-
MW-25S	08/04/2015	70.5	4.4	9.5	4.6	-	-	-	-	-	-
MW-25S	07/19/2017	-	-	-	-	-	3.77	-	-	-	-
MW-25S	08/31/2017	-	-	-	-	-	6.15	22.6	-	-	-

Table 4

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	11/28/2017	-	-	-	-	-	6.09	-	-	-	-
MW-25S	02/21/2018	-	-	-	-	-	6.54	-	-	-	-
MW-25S	05/21/2018	-	-	-	-	-	6.39	-	-	-	-
MW-25S	08/13/2018	-	-	-	-	-	6.37	-	-	-	-
MW-25S	08/15/2018	-	-	-	-	-	5.97	-	-	-	-
MW-25S	10/02/2018	-	-	-	-	-	6.34	-	-	-	-
MW-25S	10/18/2018	-	-	-	-	-	6.68	-	-	-	-
MW-25S	11/12/2018	-	-	-	-	-	6.54	-	-	-	-
MW-25S	11/27/2018	-	-	-	-	-	5.17	-	-	-	-
MW-25S	01/10/2019	-	-	-	-	-	6.32	-	-	-	-
MW/RW-25	10/13/2014	139.0	19.2	-	-	-	-	-	-	-	-
MW/RW-25	10/14/2014	79.0	17.5	-	-	-	-	-	-	-	-
MW/RW-25	10/15/2014	8.4	20.9	-	-	-	-	-	-	-	-
MW/RW-25	10/16/2014	28.2	14.3	-	-	-	-	-	-	-	-
MW/RW-25	02/24/2015	121.0	15.4	5.5	1.3	-	-	-	-	-	-
MW/RW-25	05/11/2015	263.0	11.6	6.7	0.6	-	-	-	-	-	-
MW/RW-25	08/04/2015	118.4	15.8	3.7	0.4	-	-	-	-	-	-
MW/RW-25	12/01/2015	79.5	14.7	5.4	1.1	-	-	-	-	-	-
MW/RW-25	03/14/2016	6.2	10.9	8.9	3.2	-	-	-	-	-	-
MW/RW-25	04/21/2016	50.2	20.9	0.2	0.2	8.30	5.45	16.77	154.2	310	-
MW/RW-25	05/23/2016	23.1	20.7	0.1	0.0	6.45	5.54	17.26	142.1	340	-
MW/RW-25	08/24/2016	54.8	-	-	-	2.58	5.56	18.78	101.8	300	-
MW/RW-25	08/30/2016	79.8	21.7	0.0	0.0	-	-	-	-	-	-
MW/RW-25	11/28/2016	17.8	20.9	0.2	0.0	12.82	5.81	15.46	100.3	332	-
MW/RW-25	02/21/2017	19.4	20.9	0.0	0.0	11.89	5.96	15.66	48.6	330	-
MW/RW-25	05/22/2017	25.6	20.9	0.3	0.0	9.18	6.03	17.50	105.3	308	-

Table 4

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/RW-25	08/28/2017	3.6	20.9	0.0	0.0	3.86	6.26	20.44	67.3	230	-
MW/RW-25	11/28/2017	139.3	20.6	0.5	0.0	10.82	5.73	16.57	95.2	230	-
MW/RW-25	02/20/2018	3.8	20.9	0.0	0.0	-	-	-	-	-	-
MW/RW-25	02/21/2018	-	-	-	-	10.03	6.15	17.39	100.4	260	-
MW/RW-25	05/21/2018	46.1	8.5	3.5	0.0	0.03	7.33	16.45	-75.8	679	-
MW/RW-25	08/13/2018	0.6	17.2	1.1	0.0	0.39	6.70	16.84	-27.7	920	-
MW/RW-25	10/18/2018	-	-	-	-	-	6.84	-	-	-	-
MW/RW-25	11/12/2018	20.3	20.9	0.1	0.0	2.2	4.64	16.34	26.4	359	-
MW/RW-25	11/27/2018	-	-	-	-	-	6.17	-	-	-	-
MW/RW-25	01/10/2019	-	-	-	-	-	5.60	-	-	-	-
MW-27	10/10/2014	41.5	17.7	-	-	0.28	6.55	17.74	-79.8	1,075	-
MW-27	10/15/2014	7.3	20.9	-	-	0.02	6.51	17.97	-36.3	1,057	-
MW-27	10/15/2014	21.9	16.1	-	-	1.67	6.37	18.18	44.5	831	-
MW-27	10/16/2014	21.9	16.1	-	-	-	-	-	-	-	-
MW-27	10/20/2014	25.3	14.3	6.5	8.6	-	-	-	-	-	-
MW-27	10/23/2014	-	-	-	-	0.54	6.46	17.97	743.0	153	1,540
MW-27	02/24/2015	21.1	2.3	12.2	13.6	-	-	-	-	-	-
MW-27	02/25/2015	-	-	-	-	0.06	6.61	15.83	-85.6	1,228	-
MW-27	05/11/2015	127.3	8.1	7.9	0.0	0.08	6.54	14.84	-110.0	1,300	-
MW-27	08/04/2015	28.5	1.3	13.2	16.6	0.03	6.68	15.93	-49.3	1,260	-
MW-27	12/01/2015	67.4	2.2	16.9	31.9	0.06	6.57	17.28	-51.5	1,190	-
MW-27	03/14/2016	70.8	1.0	15.5	0.6	0.08	6.54	14.77	-142.5	1,390	-
MW-27	04/21/2016	123.2	20.3	1.0	0.3	10.15	6.80	14.65	90.9	740	-
MW-27	05/23/2016	11.4	20.7	0.3	0.0	4.96	6.79	14.39	30.5	780	-
MW-27	08/24/2016	0.8	20.5	0.4	0.0	7.37	6.46	16.42	46.7	1,220	-
MW-27	11/28/2016	0.1	20.9	0.4	0.0	6.38	6.70	18.04	11.3	719	-

Table 4

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	02/21/2017	1.6	20.9	0.0	0.0	10.14	7.37	16.19	22.0	790	-
MW-27	05/22/2017	6.6	20.9	0.3	0.0	1.35	6.10	16.00	88.1	643	-
MW-27	08/28/2017	0.0	20.9	0.0	0.0	1.50	6.67	17.10	66.3	847.7	-
MW-27	11/28/2017	26.2	20.6	0.2	0.0	3.04	6.66	16.43	12.9	930.0	-
MW-27	02/20/2018	55.3	20.8	0.1	0.0	-	-	-	-	-	-
MW-27	02/21/2018	-	-	-	-	7.97	4.88	16.20	110.2	1,350.0	-
MW-27	05/21/2018	9.7	11.6	2.4	0.0	0.01	5.68	14.68	76.4	1,749.5	-
MW-27	08/13/2018	15.6	2.4	3.9	0.0	0.16	6.36	16.50	-22.6	1,380	-
MW-27	11/12/2018	1.7	18.2	1.9	0.0	1.91	4.84	17.61	122.6	1,489	-
MW/RW-31	10/10/2014	120.5	6.2	-	-	0.39	6.97	18.62	-119.7	899	-
MW/RW-31	10/15/2014	62.5	15.0	-	-	0.59	6.83	19.04	-119.9	848	-
MW/RW-31	10/15/2014	0.0	20.9	-	-	0.90	6.61	19.57	-47.6	541	-
MW/RW-31	10/20/2014	11.8	17.4	1.1	0.3	-	-	-	-	-	-
MW/RW-31	10/23/2014	-	-	-	-	0.41	6.98	18.69	-15.9	791	728
MW/RW-31	02/24/2015	179.0	2.1	0.2	0.3	0.02	7.08	14.47	-164.3	927	-
MW/RW-31	05/11/2015	36.9	5.8	4.1	0.1	0.00	7.06	12.74	-129.3	1,010	-
MW/RW-31	08/04/2015	41.3	3.9	5.4	1.7	0.02	7.18	15.92	-13.7	1,010	-
MW/RW-31	05/23/2016	-	-	-	-	7.34	6.69	15.56	82.4	620	-
MW/RW-31	08/31/2017	-	-	-	-	-	6.71	20.1	-	-	-
MW-33	10/10/2014	1.4	9.7	-	-	0.68	5.81	17.97	157.4	654	-
MW-33	10/15/2014	0.5	19.0	-	-	0.09	5.84	18.30	64.9	633	-
MW-33	10/15/2014	0.0	20.9	-	-	0.42	5.86	18.30	92.6	658	-
MW-33	10/20/2014	1.0	12.0	5.4	0.0	-	-	-	-	-	-
MW-33	10/23/2014	-	-	-	-	2.37	6.05	18.24	186.7	698	1,120
MW-33	02/24/2015	0.0	20.6	0.1	0.1	2.35	5.51	15.51	88.7	648	-
MW-33	05/11/2015	21.4	19.0	1.0	0.0	0.47	5.69	14.03	88.0	720	-

Table 4

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	08/04/2015	1.4	3.3	8.6	0.0	0.05	6.29	15.84	48.5	780	-
MW-33	08/30/2017	-	-	-	-	-	6.08	18.4	-	-	-
MW-51S	10/13/2014	23.0	5.7	-	-	0.64	6.72	18.32	-120.0	1,457	-
MW-51S	10/13/2014	1.0	-	-	-	0.75	6.65	18.35	-78.8	1,000	-
MW-51S	10/14/2014	-	-	-	-	0.33	6.64	18.46	-71.8	1,047	-
MW-51S	10/15/2014	1.2	20.0	-	-	1.62	6.60	18.43	1.5	566	-
MW-51S	10/15/2014	-	-	-	-	0.74	6.62	18.45	-84.6	1,122	-
MW-51S	10/20/2014	22.3	10.6	6.3	1.5	-	-	-	-	-	-
MW-51S	10/22/2014	-	-	-	-	0.81	6.67	18.47	-93.7	1,153	-
MW-51S	02/24/2015	9.9	0.9	13.5	27.2	-	-	-	-	-	-
MW-51S	02/25/2015	-	-	-	-	0.08	6.70	16.75	-110.9	1,968	-
MW-51S	05/11/2015	40.8	1.2	12.1	28.3	0.02	6.74	16.21	-113.3	1,830	-
MW-51S	08/04/2015	15.2	0.7	13.2	27.5	0.04	6.82	16.33	-96.0	1,440	-
MW-51S	03/14/2016	62.4	4.8	10.6	0.6	0.27	6.63	16.10	-129.3	2,250	-
MW-51S	04/21/2016	12.4	13.2	1.6	0.3	0.06	6.65	16.57	-79.9	1,760	-
MW-51S	05/23/2016	0.0	20.9	0.0	0.0	0.59	6.83	16.74	-96.6	2,290	-
MW-51S	08/24/2016	1.1	-	-	-	0.70	6.74	18.60	-113.7	2,390	-
MW-51S	08/30/2016	153.7	21.7	0.1	0.0	-	-	-	-	-	-
MW-51S	11/28/2016	-	-	-	-	2.26	7.14	19.36	-131.0	1,448	-
MW-51S	12/08/2016	0.2	20.9	0.0	0.0	-	-	-	-	-	-
MW-51S	02/21/2017	20.4	20.9	0.5	0.0	0.06	7.11	17.81	-23.3	1,870	-
MW-51S	05/22/2017	2.1	20.9	0.1	0.0	4.99	6.72	16.76	-40.0	2,207	-
MW-51S	07/19/2017	-	-	-	-	-	6.88	-	-	-	-
MW-51S	08/28/2017	0.4	19.7	0.2	0.0	1.9	7.30	20.12	45.1	2,169.1	-
MW-51S	11/28/2017	0.9	21.4	0.0	0.0	2.3	6.19	16.83	-22.4	2,000	-
MW-51S	02/20/2018	0.1	20.9	0.2	0.0	-	-	-	-	-	-

Table 4

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-51S	02/21/2018	-	-	-	-	4.4	6.23	17.23	41.1	1,620	-
MW-51S	05/21/2018	0.0	20.5	0.6	0.0	0.1	7.57	15.92	-109.8	1,844	-
MW-51S	08/13/2018	1.9	8.4	3.8	0.0	0.1	6.27	17.41	-52.9	2,870	-
MW-51S	10/18/2018	-	-	-	-	-	6.94	-	-	-	-
MW-51S	11/12/2018	4.7	20.0	0.6	0.0	9.2	5.82	16.43	-30.4	763	-
MW-51S	11/27/2018	-	-	-	-	-	6.31	-	-	-	-
MW-51S	01/10/2019	-	-	-	-	-	6.43	-	-	-	-
MW/RW-51	10/13/2014	135.0	18.0	-	-	-	-	-	-	-	-
MW/RW-51	10/15/2014	100.8	14.0	-	-	0.33	6.60	18.57	-86.9	1,014	-
MW/RW-51	10/20/2014	31.5	11.6	4.9	3.2	-	-	-	-	-	-
MW/RW-51	02/24/2015	35.1	4.7	11.4	6.0	-	-	-	-	-	-
MW/RW-51	05/11/2015	100.3	1.2	12.6	5.1	-	-	-	-	-	-
MW/RW-51	08/04/2015	104.3	19.6	1.0	1.6	-	-	-	-	-	-
MW/RW-51	12/01/2015	18.5	17.8	2.4	1.2	-	-	-	-	-	-
MW/RW-51	03/14/2016	30.0	19.0	1.7	0.2	-	-	-	-	-	-
MW/RW-51	04/21/2016	59.9	20.9	0.3	0.2	5.13	6.43	16.38	46.7	740	-
MW/RW-51	05/23/2016	33.1	20.6	0.3	0.0	5.43	6.57	17.44	19.6	700	-
MW/RW-51	08/24/2016	47.0	-	-	-	2.22	6.69	18.70	-44.8	650	-
MW/RW-51	08/30/2016	74.9	21.1	0.0	0.0	-	-	-	-	-	-
MW/RW-51	11/28/2016	0.0	20.9	0.3	0.0	12.39	6.80	15.87	-47.0	715	-
MW/RW-51	02/21/2017	26.4	20.9	0.7	0.0	9.58	6.53	15.86	47.6	790	-
MW/RW-51	05/22/2017	33.5	17.0	0.1	0.0	7.03	6.25	18.23	11.4	546	-
MW/RW-51	08/28/2017	7.3	20.9	0.0	0.0	2.70	6.21	19.81	62.9	327.1	-
MW/RW-51	11/28/2017	109.8	20.5	0.6	0.0	9.27	6.54	16.83	22.1	520.0	-
MW/RW-51	02/20/2018	14.3	20.8	0.0	0.0	-	-	-	-	-	-
MW/RW-51	02/21/2018	-	-	-	-	7.82	6.72	17.50	-13.2	560	-

Table 4

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/RW-51	05/21/2018	0.5	18.6	0.5	0.0	0.01	7.83	16.71	-151.3	743	-
MW/RW-51	08/13/2018	21.2	20.2	0.6	0.0	2.38	6.10	20.82	84.9	790	-
MW/RW-51	10/18/2018	-	-	-	-	-	7.06	-	-	-	-
MW/RW-51	11/12/2018	104.2	20.9	0.1	0.0	2.9	5.47	15.66	-8.3	594	-
MW/RW-51	11/27/2018	-	-	-	-	-	6.26	-	-	-	-
MW/RW-51	01/10/2019	-	-	-	-	-	6.07	-	-	-	-
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	-
MW-70	02/24/2015	0.0	17.8	1.3	0.2	1.02	5.53	16.71	-36.2	900	-
MW-70	05/11/2015	-	-	-	-	0.40	5.49	16.51	120.7	790	-
MW-70	08/04/2015	-	-	-	-	0.46	5.72	16.24	77.5	820	
MW-70	08/30/2017	-	-	-	-	-	5.25	19.2	-	-	-
MW/RW-72S	10/10/2014	21.7	5.8	-	-	0.55	6.42	18.41	-98.2	1,331	-
MW/RW-72S	10/15/2014	14.5	14.0	-	-	0.04	6.40	18.56	-85.4	1,340	-
MW/RW-72S	10/15/2014	-	-	-	-	1.70	6.47	18.70	-53.0	1,246	-
MW/RW-72S	10/16/2014	95.0	7.8	-	-	-	-	-	-	-	-
MW/RW-72S	10/20/2014	38.8	9.3	7.4	4.2	-	-	-	-	-	-
MW/RW-72S	10/22/2014	-	-	-	-	1.92	6.39	17.99	-21.2	904	-
MW/RW-72S	02/24/2015	30.6	5.4	11.5	1.6	0.09	6.54	16.13	-101.9	1,325	-
MW/RW-72S	05/11/2015	65.0	6.5	9.4	3.3	0.02	6.49	14.58	-110.6	1,340	-
MW/RW-72S	08/04/2015	8.0	8.2	6.9	0.4	0.11	6.71	16.20	-56.9	1,710	-
MW/RW-72S	03/14/2016	21.4	15.6	4.1	0.1	2.16	6.59	15.02	-101.1	1,960	-
MW/RW-72S	05/23/2016	0.0	20.9	0.2	0.0	NO MEASUREMENTS - BAILER CAUGHT IN WELL (RELEASED NEXT SAMPLE DAY)					
MW/RW-72S	08/24/2016	28.2	-	-	-	-	-	-	-	-	-
MW/RW-72S	08/30/2016	13.8	20.8	0.1	0.0	3.09	4.48	25.13	250.70	1,600	-

Table 4

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/RW-72S	11/28/2016	0.2	20.9	0.0	0.0	DRY					
MW/RW-72S	02/21/2017	22.6	20.9	0.0	0.0	DRY					
MW/RW-72S	05/22/2017	4.4	20.2	0.7	0.0	2.96	4.79	15.87	291.50	2,088.9	-
MW/RW-72S	07/19/2017	-	-	-	-	-	4.26	-	-	-	-
MW/RW-72S	08/28/2017	0.1	15.5	1.1	0.0	0.2	4.34	17.4	93.8	3,636	-
MW/RW-72S	08/30/2017	-	-	-	-	-	4.40	18.1	-	-	-
MW/RW-72S	11/28/2017	1.6	21.1	0.1	0.0	0.8	4.39	17.7	140.2	2,710	-
MW/RW-72S	02/20/2018	1.4	12.6	4.0	0.0	-	-	-	-	-	-
MW/RW-72S	02/21/2018	-	-	-	-	0.4	4.35	16.6	136.3	3,100	-
MW/RW-72S	05/21/2018	10.0	6.3	4.8	0.2	-0.03	4.41	14.8	230.6	3,001	-
MW/RW-72S	08/13/2018	0.9	9.9	4.4	0.8	0.08	4.53	16.6	156.0	3,580	-
MW/RW-72S	11/12/2018	1.9	20.9	0.3	0.0	1.76	4.78	18.1	95.6	2,248	-
MW/RW-72	10/10/2014	12.2	6.6	-	-	0.48	5.47	17.86	32.6	743	-
MW/RW-72	10/15/2014	14.8	16.8	-	-	0.14	5.41	18.04	110.3	733	-
MW/RW-72	10/15/2014	-	-	-	-	2.99	5.75	18.09	108.9	739	-
MW/RW-72	10/16/2014	6.9	5.2	-	-	-	-	-	-	-	-
MW/RW-72	10/20/2014	10.5	2.0	16.8	13.0	-	-	-	-	-	-
MW/RW-72	10/22/2014	-	-	-	-	1.77	5.86	17.73	146.2	533	29,800
MW/RW-72	02/24/2015	13.3	14.2	6.9	0.1	0.58	5.48	17.43	82.8	877	-
MW/RW-72	05/11/2015	64.5	20.6	0.2	0.0	0.03	5.82	15.99	-21.9	1,080	-
MW/RW-72	08/04/2015	6.9	12.7	5.0	3.2	0.02	6.68	16.31	-57.3	1,880	-
MW/RW-72	03/14/2016	42.8	19.8	1.0	0.1	0.04	6.62	16.93	-121.3	1,970	-
MW/RW-72	04/21/2016	79.2	20.7	0.6	0.2	10.41	5.98	16.45	143.7	660	-
MW/RW-72	05/23/2016	0.0	20.9	0.0	0.0	7.92	6.42	16.99	112.8	710	-
MW/RW-72	08/24/2016	0.9	20.9	0.1	0.0	4.85	6.63	16.86	72.9	830	-
MW/RW-72	11/28/2016	0.0	20.9	0.0	0.0	8.07	5.36	17.27	103.7	848	-

Table 4

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/RW-72	02/21/2017	57.9	20.9	0.0	0.0	9.05	5.61	16.21	55.6	850	-
MW/RW-72	05/22/2017	2.0	19.3	1.0	0.0	0.19	4.37	15.56	176.8	3,591	-
MW/RW-72	08/28/2017	0.2	20.9	0.0	0.0	3.84	4.41	17.36	94.5	2,113.3	-
MW/RW-72	08/30/2017	-	-	-	-	-	4.32	19.6	-	-	-
MW/RW-72	11/30/2017	51.4	20.4	0.3	0.0	3.48	4.40	17.8	162.2	1,899	-
MW/RW-72	02/20/2018	35.5	20.8	0.2	0.0	3.80	4.60	17.5	184.2	1,550	-
MW/RW-72	05/21/2018	16.0	14.1	3.2	0.0	0.06	3.40	16.4	463.7	2,527	-
MW/RW-72	08/13/2018	0.4	2.7	7.6	3.1	0.47	2.45	16.4	264.9	2,850	-
MW/RW-72	11/12/2018	5.3	16.1	2.0	1.6	1.64	4.45	17.1	181.9	1,897	-
MW/RW-72	11/13/2018	-	16.2	2.3	1.7	-	-	-	-	-	-
MW-100S	10/10/2014	6.5	6.8	-	-	0.40	5.62	18.36	11.8	915	-
MW-100S	02/24/2015	0.0	17.2	3.5	0.2	4.78	5.79	16.07	25.5	160	-
MW-100S	11/28/2016	0.7	8.5	3.9	0.1	0.44	6.24	18.03	-14.6	1,116	-
MW-100S	08/30/2017	-	-	-	-	-	6.02	18.7	-	-	-
MW-100S	11/28/2017	0.8	21.4	0.0	0.0	0.78	5.81	16.8	81.8	1,100	-
MW-100S	02/20/2018	-	-	-	-	-	5.60	-	-	-	-
MW-100S	05/21/2018	-	-	-	-	-	5.67	-	-	-	-
MW-100S	11/12/2018	-	-	-	-	1.73	4.85	18.3	52.9	782	-
MW-100	10/10/2014	0.3	20.4	-	-	2.23	5.38	17.60	148.8	531	-
MW-100	02/24/2015	0.0	20.4	0.6	0.2	1.02	5.53	16.80	27.5	309	-
MW-100	11/28/2016	0.2	19.0	2.5	0.0	2.26	5.74	16.96	49.6	262	-
MW-100	08/30/2017	-	-	-	-	-	5.72	18.6	-	-	-
MW-100	11/28/2017	1.3	16.3	2.2	0.0	2.47	5.94	16.7	98.8	290	-
MW-100	11/12/2018	-	-	-	-	2.10	4.70	16.8	64.0	291	-
MW-102	10/10/2014	0.6	17.7	-	-	2.44	6.10	17.15	68.2	295	-
MW-102	08/30/2017	-	-	-	-	-	6.21	19.1	-	-	-

Table 4

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	10/10/2014	8.5	19.4	-	-	1.72	6.41	19.90	71.6	610	-
MW-103	10/23/2014	-	-	-	-	7.32	6.15	19.14	149.3	598	-
MW-103	02/24/2015	0.0	19.5	2.4	0.3	-	-	-	-	-	-
MW-103	02/25/2015	-	-	-	-	5.27	6.17	5.08	85.9	720	-
MW-103	05/11/2015	-	-	-	-	0.13	5.95	12.40	82.3	680	-
MW-103	08/30/2017	-	-	-	-	-	6.05	22.6	-	-	-
MW-104	10/10/2014	5.8	18.9	-	-	1.98	6.90	19.47	6.1	452	-
MW-104	10/21/2014	-	-	-	-	2.17	6.93	18.83	102.6	526	3,250
MW-104	02/24/2015	0.0	15.1	1.1	0.3	-	-	-	-	-	-
MW-104	02/25/2015	-	-	-	-	3.75	7.07	9.30	50.4	496	-
MW-104	05/11/2015	-	-	-	-	1.24	6.89	12.25	54.8	740	-
MW-104	08/30/2017	-	-	-	-	-	6.92	22.8	-	-	-
MW-105	10/10/2014	11.5	19.0	-	-	3.96	6.90	19.03	56.8	427	-
MW-105	10/21/2014	-	-	-	-	4.47	6.89	19.20	155.1	393	2,520
MW-105	05/11/2015	-	-	-	-	0.42	5.38	11.11	98.1	27,900	-
MW-105	08/30/2017	-	-	-	-	-	6.94	22.8	-	-	-
MW-106	10/10/2014	9.2	17.1	-	-	1.20	4.66	18.99	122.5	2,231	-
MW-106	10/14/2014	4.3	18.3	-	-	-	-	-	-	-	-
MW-106	10/20/2014	0.2	15.5	3.8	0.0	-	-	-	-	-	-
MW-106	10/23/2014	-	-	-	-	1.29	5.20	18.35	97.7	1,529	-
MW-106	02/24/2015	0.0	7.1	5.4	0.1	1.03	4.63	9.81	62.0	2,156	-
MW-106	05/11/2015	0.7	0.2	7.6	0.2	0.03	5.00	11.73	100.8	2,010	-
MW-106	08/04/2015	1.0	12.6	4.5	0.0	0.09	5.66	17.62	31.8	2,080	-
MW-106	03/14/2016	0.5	19.2	0.7	0.0	0.06	4.76	10.70	113.8	1,740	-
MW-106	04/21/2016	24.7	0.1	8.8	2.9	0.06	6.05	12.10	34.8	1,830	-
MW-106	05/23/2016	120.4	19.2	0.7	0.3	1.29	3.88	13.24	319.2	1,430	-

Table 4

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-106	08/24/2016	430.0	20.2	0.2	0.0	5.38	3.93	19.45	192.5	1,680	-
MW-106	11/28/2016	38.3	20.9	0.1	0.0	9.19	4.42	16.70	150.5	2,259	-
MW-106	02/21/2017	35.8	20.9	0.0	0.0	4.40	4.08	12.30	68.0	1,480	-
MW-106	05/22/2017	8.3	20.7	0.6	0.0	3.23	3.27	14.92	383.1	2,334	-
MW-106	08/28/2017	9.5	20.1	0.1	0.0	DRY					
MW-106	11/28/2017	17.1	20.6	0.1	0.0	DRY					
MW-106	02/20/2018	0.9	20.8	0.1	0.0	-	-	-	-	-	-
MW-106	02/21/2018	-	-	-	-	6.94	3.63	12.08	239.20	2,550	-
MW-106	05/21/2018	3.9	11.5	0.8	0.0	5.72	3.52	13.66	414.20	1,507	-
MW-106	08/13/2018	27.1	11.4	3.2	0.0	0.70	3.21	19.80	323.20	2,340	-
MW-106	11/12/2018	0.8	13.4	4.0	0.0	1.95	3.97	17.29	165.80	1,375	-
MW-107	10/10/2014	10.5	11.8	-	-	0.62	3.51	18.90	348.4	2,063	-
MW-107	10/15/2014	7.3	13.7	-	-	1.51	3.63	19.54	393.0	1,047	-
MW-107	10/15/2014	-	-	-	-	2.52	3.76	19.36	428.9	1,117	-
MW-107	10/20/2014	0.3	7.3	9.4	0.0	-	-	-	-	-	-
MW-107	10/23/2014	-	-	-	-	3.40	2.90	19.05	480.1	1,462	-
MW-107	02/24/2015	0.0	19.3	1.5	0.1	7.33	3.01	11.73	338.5	15,400	-
MW-107	05/11/2015	0.8	9.1	6.7	0.0	0.40	3.36	12.51	425.7	2,010	-
MW-107	08/04/2015	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	-
MW-109S	10/20/2014	13.8	3.9	13.2	0.0	-	-	-	-	-	-
MW-109S	10/21/2014	-	-	-	-	0.35	6.03	18.29	59.2	769	-
MW-109S	02/24/2015	12.9	1.3	14.9	0.3	-	-	-	-	-	-
MW-109S	02/25/2015	-	-	-	-	1.35	6.19	13.93	36.7	607	-
MW-109S	05/11/2015	4.0	13.8	4.8	0.0	0.33	5.96	12.89	124.7	460	-

Table 4

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-109S	11/28/2017	-	-	-	-	-	5.25	15.16	-	-	-
MW-109	10/10/2014	11.8	19.1	-	-	1.65	6.03	17.98	35.0	247	-
MW-109	10/20/2014	0.2	20.8	0.6	0.0	-	-	-	-	-	-
MW-109	10/21/2014	-	-	-	-	0.86	5.81	18.04	133.5	261	-
MW-109	02/24/2015	6.2	18.5	3.2	0.3	-	-	-	-	-	-
MW-109	02/25/2015	-	-	-	-	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	-
MW-110S	02/24/2015	12.7	4.3	12.8	0.3	-	-	-	-	-	-
MW-110S	02/25/2015	-	-	-	-	1.65	6.39	13.79	-19.5	849	-
MW-110S	11/28/2017	-	-	-	-	-	6.37	14.66	-	-	-
MW-110	10/10/2014	13.1	16.4	-	-	1.30	5.39	17.98	117.8	215	-
MW-110	02/24/2015	5.8	19.4	1.0	0.4	-	-	-	-	-	-
MW-110	02/25/2015	-	-	-	-	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	-
MW-111	02/24/2015	0.0	18.7	1.7	0.2	-	-	-	-	-	-
MW-111	02/25/2015	-	-	-	-	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	-
MW-112S	10/20/2014	0.0	12.0	7.9	0.0	-	-	-	-	-	-
MW-112S	10/21/2014	-	-	-	-	2.50	5.38	18.27	172.9	333	-
MW-112S	02/24/2015	16.8	6.6	9.7	0.3	-	-	-	-	-	-
MW-112S	02/25/2015	-	-	-	-	3.92	5.41	13.06	207.5	347	-
MW-112S	05/11/2015	2.1	16.3	3.3	0.0	3.37	5.21	13.22	197.2	360	-
MW-112S	11/28/2017	-	-	-	-	-	4.88	14.11	-	-	-
MW-112	10/10/2014	14.8	16.3	-	-	2.14	5.56	17.93	157.3	162	-
MW-112	02/24/2015	12.3	19.2	1.3	0.3	-	-	-	-	-	-
MW-112	02/25/2015	-	-	-	-	4.34	5.54	15.13	203.8	171	-

Table 4

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-113	10/10/2014	6.3	19.2	-	-	6.17	6.35	17.97	83.2	352	-
MW-113	02/24/2015	0.0	19.9	1.6	0.2	-	-	-	-	-	-
MW-113	02/25/2015	-	-	-	-	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	-
MW-114	10/20/2014	0.1	16.0	2.1	0.1	-	-	-	-	-	-
MW-114	10/21/2014	-	-	-	-	1.23	6.04	17.81	154.1	262	-
MW-114	02/24/2015	0.0	20.6	0.3	0.3	-	-	-	-	-	-
MW-114	02/25/2015	-	-	-	-	8.72	6.10	12.05	113.7	326	-
MW-114	05/11/2015	0.0	19.4	1.0	0.0	3.99	5.99	15.33	199.7	300	-
MW-121	08/04/2015	-	-	-	-	0.02	7.00	17.04	-13.1	890	-
MW-121	12/01/2015	14.8	14.8	3.6	15.2	0.04	6.72	17.44	-91.7	880	-
MW-121	03/14/2016	7.0	13.0	4.5	17.6	0.02	6.84	17.13	-159.0	850	-
MW-121	05/23/2016	251.2	17.6	4.4	0.7	1.54	6.77	17.35	-50.8	1,230	-
MW-121	08/24/2016	1,070.0	2.6	14.6	0.6	0.49	6.80	17.89	-126.4	1,300	-
MW-121	11/28/2016	378.4	5.0	10.0	0.1	0.26	6.72	18.08	-106.2	1,298	-
MW-121	02/21/2017	238.3	15.5	3.5	0.0	0.32	6.72	18.03	-46.1	930	-
MW-121	05/22/2017	4.3	13.4	1.3	0.0	0.15	6.53	17.86	-105.7	1,291	-
MW-121	08/28/2017	0.7	17.8	1.5	0.0	0.03	7.02	18.33	-47.6	796.2	-
MW-121	08/29/2017	-	-	-	-	-	6.80	18.7	-	-	-
MW-121	11/28/2017	287.1	17.1	1.9	0.0	0.90	6.76	17.4	-351.9	530	-
MW-121	02/20/2018	161.6	18.0	2.4	0.0	0.12	6.59	18.2	-65.9	590	-
MW-121	05/21/2018	178.8	9.0	3.2	0.0	-0.02	6.67	16.7	-73.5	871	-
MW-121	08/13/2018	2.8	19.5	0.4	0.0	0.30	6.51	16.9	-62.1	1,050	-
MW-121	11/12/2018	18.1	20.9	0.1	0.0	8.20	7.75	16.9	7.3	11	-
MW-122	08/04/2015	-	-	-	-	0.06	7.04	16.73	-6.3	1,020	-
MW-122	12/01/2015	2.2	11.2	4.8	4.8	0.27	6.81	17.06	-86.8	1,130	-

Table 4

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-122	03/14/2016	5.7	16.2	2.7	1.1	0.11	7.04	16.50	-127.1	1,000	-
MW-122	05/23/2016	8.4	20.9	0.1	0.0	0.97	6.81	16.84	-77.1	1,090	-
MW-122	08/24/2016	0.4	20.9	0.0	0.0	0.53	6.89	16.99	-127.7	1,040	-
MW-122	11/28/2016	4.5	20.9	4.6	0.0	0.12	6.80	17.29	-105.9	1,090	-
MW-122	02/21/2017	3.5	20.6	1.7	0.0	0.84	7.00	17.62	-23.4	1,000	-
MW-122	05/22/2017	4.7	10.5	1.8	0.0	0.17	6.72	17.52	-61.3	988	-
MW-122	08/28/2017	0.8	20.7	0.2	0.0	0.04	6.93	18.09	-28.3	1,129	-
MW-122	08/30/2017	-	-	-	-	-	6.75	18.6	-	-	-
MW-122	11/28/2017	421.3	16.9	1.7	0.0	5.98	6.42	17.4	116.2	1,220	-
MW-122	02/20/2018	383.5	16.6	1.7	0.0	0.08	6.37	18.1	-5.9	2,530	-
MW-122	05/21/2018	334..6	17.0	1.0	0.0	0.07	6.59	16.9	-73.5	1,327	-
MW-122	08/13/2018	3.5	20.3	0.4	0.0	0.12	6.79	16.8	-66.0	1,230	-
MW-122	11/12/2018	28.1	20.9	0.1	0.0	1.77	7.50	16.6	-10.6	1,236	-
MW/RW-123S	08/04/2015	-	-	-	-	2.66	12.52	16.99	-53.2	15,080	-
MW/RW-123S	12/01/2015	0.2	17.8	2.0	10.5	0.13	6.63	17.68	-46.3	810	-
MW/RW-123S	03/14/2016	73.7	16.8	2.9	3.1	0.86	6.50	15.31	-69.7	770	-
MW/RW-123S	04/21/2016	247.0	16.9	2.5	0.3	7.78	7.21	15.96	21.5	480	-
MW/RW-123S	05/23/2016	0.5	19.9	0.5	0.2	6.87	7.28	16.23	65.1	520	-
MW/RW-123S	08/24/2016	56.2	-	-	-	-	-	-	-	-	-
MW/RW-123S	08/30/2016	167.5	21.6	0.0	0.1	5.25	7.39	20.83	0.6	590	-
MW/RW-123S	11/28/2016	-	-	-	-	1.67	8.21	13.95	-7.7	584	-
MW/RW-123S	12/08/2016	54.4	20.9	0.3	0.0	-	-	-	-	-	-
MW/RW-123S	02/21/2017	19.4	20.9	0.0	0.0	0.64	7.34	12.50	40.2	550	-
MW/RW-123S	05/22/2017	0.1	20.9	0.0	0.0	4.08	6.97	16.72	-147.2	862	-
MW/RW-123S	07/10/2017	-	-	-	-	-	7.04	-	-	-	
MW/RW-123S	08/28/2017	0.3	15.8	0.7	0.0	2.3	6.78	19.01	24.2	1,063	-

Table 4

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/RW-123S	11/28/2017	2.3	21.5	0.0	0.0	3.2	6.74	17.78	-123.3	1,070	-
MW/RW-123S	02/01/2018	0.1	20.9	0.0	0.0	-	-	-	-	-	-
MW/RW-123S	02/21/2018	-	-	-	-	3.9	6.20	17.45	-92.8	1,020	-
MW/RW-123S	05/21/2018	0.0	12.1	3.2	0.8	0.03	8.16	16.28	-126.2	1,150	-
MW/RW-123S	08/13/2018	0.4	13.5	4.2	4.0	0.34	6.82	17.54	-90.9	2,100	-
MW/RW-123S	10/02/2018	-	-	-	-	-	6.35	-	-	-	-
MW/RW-123S	10/18/2018	-	-	-	-	-	6.80	-	-	-	-
MW/RW-123S	11/12/2018	14.3	20.9	0.0	0.0	1.71	5.01	16.87	13.6	565	-
MW/RW-123S	11/27/2018	-	-	-	-	-	6.48	-	-	-	-
MW/RW-123S	01/10/2019	-	-	-	-	-	6.60	-	-	-	-
RW-1	10/13/2014	130.0	19.0	-	-	1.34	6.92	18.45	136.4	495	-
RW-1	10/13/2014	79.0	18.9	-	-	3.41	6.41	18.31	158.0	473	-
RW-1	10/14/2014	55.0	18.9	-	-	0.53	6.49	18.46	129.6	475	-
RW-1	10/15/2014	80.7	19.3	-	-	1.99	6.29	18.43	60.4	292	-
RW-1	10/15/2014	-	-	-	-	1.06	6.31	18.49	96.9	314	-
RW-1	10/20/2014	29.2	16.4	3.2	2.4	-	-	-	-	-	-
RW-1	10/22/2014	-	-	-	-	2.14	6.50	18.07	85.5	311	-
RW-1	02/24/2015	178.0	3.2	4.2	0.2	-	-	-	-	-	-
RW-1	02/25/2015	-	-	-	-	0.03	6.76	17.88	-86.4	900	-
RW-1	12/01/2015	6.9	3.1	8.5	9.5	0.07	6.68	17.28	-57.6	760	-
RW-1	03/14/2016	0.1	15.3	3.8	0.0	0.16	6.50	17.06	-89.0	730	-
RW-1	04/21/2016	197.4	20.7	0.3	0.2	4.04	6.08	16.83	134.6	240	-
RW-1	05/23/2016	0.0	20.9	0.0	0.0	2.36	6.35	17.17	56.0	230	-
RW-1	08/24/2016	2.4	20.9	0.1	0.0	2.60	6.38	17.35	28.8	220	
RW-1	11/28/2016	-	-	-	-	0.13	6.37	17.76	19.6	209	-
RW-1	12/08/2016	1.8	20.9	0.1	0.0	-	-	-	-	-	-

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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	02/21/2017	96.5	20.9	0.1	0.0	4.16	7.17	17.68	44.4	240	-
RW-1	05/22/2017	1.0	20.3	0.1	0.0	0.74	6.08	17.64	-17.3	211.8	-
RW-1	08/28/2017	0.5	20.4	0.1	0.0	-0.06	7.26	17.93	-25.7	265.4	-
RW-1	08/29/2017	-	-	-	-	-	6.31	18.2	-	-	-
RW-1	11/28/2017	164.4	19.4	0.9	0.0	0.66	6.62	17.1	-47.2	260	-
RW-1	02/20/2018	0.0	20.9	0.0	0.0	0.13	6.30	17.6	-17.7	270	-
RW-1	05/21/2018	44.9	12.3	0.4	0.0	0.05	7.19	16.6	-76.5	517	-
RW-1	08/13/2018	0.7	9.4	3.3	0.0	0.07	6.66	17.4	-25.1	750	-
RW-1	11/12/2018	2.5	20.9	0.2	0.0	1.31	5.44	16.8	-28.5	835	-
RW-05S	08/04/2015	-	-	-	-	0.00	8.88	15.65	-469.6	1,960	-
RW-05S	12/01/2015	193.7	19.2	1.3	3.5	0.04	6.59	17.01	-89.7	1,560	-
RW-05S	03/14/2016	44.2	20.3	0.6	0.3	1.78	6.63	14.38	-98.0	1,260	-
RW-05S	04/21/2016	264.4	19.6	1.2	0.3	6.62	7.09	14.94	-27.4	500	-
RW-05S	05/23/2016	46.1	20.9	0.2	0.0	3.75	6.11	14.74	39.9	710	-
RW-05S	08/24/2016	48.8	-	-	-	-	-	-	-	-	-
RW-05S	08/30/2016	11.2	21.3	0.1	0.1	3.47	6.16	21.27	60.9	940	-
RW-05S	11/28/2016	0.3	20.9	0.0	0.0	DRY					
RW-05S	02/21/2017	21.4	20.9	0.0	0.0	0.10	6.18	13.58	34.80	1,840	-
RW-05S	05/22/2017	0.0	20.9	0.1	0.0	1.70	2.71	15.46	422.80	4,568	-
RW-05S	07/10/2017	-	-	-	-	-	3.03	-	-	-	-
RW-05S	07/19/2017	-	-	-	-	-	3.28	-	-	-	-
RW-05S	08/28/2017	1.7	20.9	0.1	0.0	2.7	3.70	18.5	112.1	2,270.7	-
RW-05S	11/28/2017	2.5	21.4	0.0	0.0	2.8	2.52	15.0	187.8	2,130	-
RW-05S	02/20/2018	0.7	20.5	0.2	0.0	-	-	-	-	-	-
RW-05S	02/21/2018	-	-	-	-	2.5	5.16	16.0	26.7	1,370	-
RW-05S	05/21/2018	0.8	20.5	0.0	0.0	0.05	6.43	14.5	-41.7	1,744.2	-

Table 4

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-05S	08/13/2018	0.6	20.5	0.1	0.0	0.22	6.40	16.4	-57.7	2,200	-
RW-05S	10/02/2018	-	-	-	-	-	5.93	-	-	-	-
RW-05S	10/18/2018	-	-	-	-	-	6.72	-	-	-	-
RW-05S	11/12/2018	28.0	20.9	0.1	0.0	2.9	6.14	15.9	-44.3	914.0	-
RW-05S	11/27/2018	-	-	-	-	-	6.36	-	-	-	-
RW-05S	01/10/2019	-	-	-	-	-	7.23	-	-	-	-
RW-25S	08/04/2015	3.9	2.1	14.7	59.9	DRY					
RW-25S	12/01/2015	111.1	13.1	6.5	9.7	-	-	-	-	-	-
RW-25S	03/14/2016	55.5	18.8	1.4	0.5	-	-	-	-	-	-
RW-25S	04/21/2016	117.1	13.3	2.8	0.8	-	-	-	-	-	-
RW-25S	05/23/2016	72.1	20.9	0.3	0.0	DRY					
RW-25S	08/24/2016	66.5	-	-	-	-	-	-	-	-	-
RW-25S	08/30/2016	399.2	19.3	1.2	0.1	2.02	6.70	21.67	-52.6	1,310	-
RW-25S	11/28/2016	-	-	-	-	0.15	7.54	15.77	-141.8	847	-
RW-25S	12/08/2016	37.3	20.9	0.1	0.0	-	-	-	-	-	-
RW-25S	02/21/2017	17.6	20.9	0.0	0.0	DRY					
RW-25S	05/22/2017	1.8	20.9	0.2	0.0	2.30	6.46	16.30	-40.90	2,781	-
RW-25S	08/28/2017	1.1	20.1	0.1	0.0	DRY					
RW-25S	11/28/2017	5.6	21.2	0.1	0.0	DRY					
RW-25S	02/20/2018	0.2	16.6	3.0	0.0	-	-	-	-	-	-
RW-25S	02/21/2018	-	-	-	-	2.94	6.19	16.62	-33.20	620	-
RW-25S	05/21/2018	0.7	20.7	0.3	0.0	0.16	7.35	15.89	-105.40	809	-
RW-25S	08/13/2018	0.8	20.6	0.6	0.0	0.21	6.75	16.88	-105.9	1,480	-
RW-25S	10/02/2018	-	-	-	-	-	6.29	-	-	-	-
RW-25S	10/18/2018	-	-	-	-	-	6.86	-	-	-	-
RW-25S	11/12/2018	6.1	20.9	0.4	0.0	2.50	4.91	16.70	37.0	1,549	-

Table 4

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-25S	11/27/2018	-	-	-	-	-	6.13	-	-	-	-
RW-25S	01/10/2019	-	-	-	-	-	5.91	-	-	-	-
RW-28S	08/04/2015	48.5	13.8	1.4	0.3	0.17	6.22	16.59	-12.0	1,610	-
RW-28S	12/01/2015	31.8	17.6	1.6	0.1	0.24	6.50	17.31	-48.20	1,590	-
RW-28S	03/14/2016	68.8	17.6	2.1	0.2	2.25	6.75	12.79	-86.50	1,330	-
RW-28S	04/21/2016	9.6	20.8	0.1	0.1	8.47	7.12	15.50	92.30	1,450	-
RW-28S	05/23/2016	7.4	20.9	0.1	0.0	6.93	7.18	15.77	85.4	1,360	-
RW-28S	08/24/2016	13.6	-	-	-	-	-	-	-	-	-
RW-28S	08/30/2016	20.1	21.8	0.0	0.1	5.80	7.10	21.31	45.0	1,400	-
RW-28S	11/28/2016	-	-	-	-	7.37	7.62	13.91	32.4	1,793	-
RW-28S	12/08/2016	0.4	20.9	0.0	0.0	-	-	-	-	-	-
RW-28S	02/21/2017	10.8	20.9	0.0	0.0	9.50	7.13	10.78	49.7	1,710	-
RW-28S	05/22/2017	7.6	20.8	0.2	0.0	0.33	6.21	14.56	-64.9	1,763	-
RW-28S	07/10/2017	-	-	-	-	-	6.70	-	-	-	-
RW-28S	08/28/2017	1.2	19.8	0.5	0.0	0.12	6.69	20.26	68.6	1,591.4	-
RW-28S	11/28/2017	1.4	21.2	0.1	0.0	8.67	6.79	16.03	-57.5	1,170	-
RW-28S	02/20/2018	0.2	20.8	0.0	0.0	-	-	-	-	-	-
RW-28S	02/21/2018	-	-	-	-	3.95	6.45	16.23	42.6	1,390	-
RW-28S	05/21/2018	3.8	17.4	0.7	0.0	0.64	6.30	12.83	52.7	1,452.9	-
RW-28S	08/13/2018	0.4	10.3	0.9	0.0	0.31	6.81	18.84	223.5	1,720	-
RW-28S	11/12/2018	1.1	19.8	0.3	0.0	6.02	4.71	18.33	105.5	21	-
RW-30S	10/10/2014	6.8	7.6	-	-	0.31	6.64	18.50	-59.9	1,155	-
RW-30S	10/15/2014	15.5	17.2	-	-	-	6.69	19.02	-114.8	1,084	-
RW-30S	10/15/2014	74.4	10.5	-	-	0.69	6.61	19.43	-60.0	1,030	-
RW-30S	10/20/2014	2.8	11.5	4.0	0.0	-	-	-	-	-	-
RW-30S	02/24/2015	16.5	12.8	0.3	0.2	0.40	6.74	14.15	-51.7	742	-

Table 4

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-30S	05/11/2015	49.6	13.4	2.9	0.0	0.81	6.70	13.04	7.0	680	-
RW-30S	08/04/2015	18.3	16.0	0.5	1.1	1.96	7.12	16.90	-93.7	780	-
RW-30S	12/01/2015	32.1	15.7	2.6	0.1	0.27	6.75	17.86	-68.4	1,040	-
RW-30S	03/14/2016	16.4	18.4	2.1	0.3	DRY					
RW-30S	04/21/2016	122.4	20.2	0.6	0.2	-	-	-	-	-	-
RW-30S	05/23/2016	36.4	20.6	0.4	0.0	DRY					
RW-30S	08/24/2016	86.5	-	-	-	-	-	-	-	-	-
RW-30S	08/30/2016	134.3	21.2	0.3	0.0	DRY					
RW-30S	11/28/2016	-	-	-	-	7.59	8.02	14.77	-22.00	875	-
RW-30S	12/08/2016	0.3	20.9	0.0	0.0	-	-	-	-	-	-
RW-30S	02/21/2017	13.4	20.9	0.0	0.0	8.68	7.90	11.57	50.5	1,140	-
RW-30S	05/22/2017	15.9	20.9	0.1	0.0	DRY					
RW-30S	07/10/2017	-	-	-	-	-	6.90	-	-	-	-
RW-30S	08/28/2017	0.3	19.9	0.2	0.0	DRY					
RW-30S	11/28/2017	4.5	21.4	0.1	0.0	DRY					
RW-30S	02/20/2018	16.3	20.9	0.0	0.0	-	-	-	-	-	-
RW-30S	02/21/2018	-	-	-	-	DRY					
RW-30S	05/21/2018	3.0	18.6	0.1	0.0	2.02	6.58	12.96	42.50	855.50	-
RW-30S	08/13/2018	0.8	16.0	0.9	0.0	2.00	6.69	17.29	1.60	1,330	-
RW-30S	11/12/2018	0.4	19.7	1.2	0.0	1.51	4.35	18.94	68.90	1,093	-
RW-116S	08/04/2015	3.8	13.8	3.9	0.6	0.07	6.68	16.35	-77.4	1,710	-
RW-116S	12/01/2015	50.7	18.8	0.6	1.2	0.06	6.62	16.97	-78.7	1,350	-
RW-116S	03/14/2016	25.1	20.2	0.8	0.2	0.65	6.59	14.49	-92.3	1,150	-
RW-116S	04/21/2016	157.5	17.9	1.6	0.3	6.24	6.71	14.11	18.4	700	-
RW-116S	05/23/2016	29.5	20.9	0.1	0.0	7.89	6.56	14.51	55.8	620	-
RW-116S	08/24/2016	45.7	-	-	-	6.47	3.15	19.33	427.7	1,560	-

Table 4

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-116S	08/30/2016	110.3	22.0	0.0	0.0	-	-	-	-	-	-
RW-116S	11/28/2016	-	-	-	-	8.59	3.09	13.74	212.4	1,157	-
RW-116S	12/08/2016	12.2	20.9	0.1	0.0	-	-	-	-	-	-
RW-116S	02/21/2017	8.5	20.9	0.0	0.0	4.30	6.57	12.84	31.8	680	-
RW-116S	05/22/2017	0.0	20.7	0.4	0.0	4.62	6.95	15.24	-6.3	603	-
RW-116S	07/10/2017	-	-	-	-	-	4.33	-	-	-	-
RW-116S	07/19/2017	-	-	-	-	-	4.42	-	-	-	-
RW-116S	08/28/2017	9.4	20.9	0.1	0.0	DRY					
RW-116S	11/28/2017	3.7	21.2	0.0	0.0	2.19	6.79	16.61	-63.2	1,580	-
RW-116S	02/20/2018	10.5	2.3	6.4	0.0	-	-	-	-	-	-
RW-116S	02/21/2018	-	-	-	-	3.43	6.22	16.34	-36.6	2,340	-
RW-116S	05/21/2018	2.5	19.3	0.7	0.0	0.15	6.42	14.88	-16.7	1,477	-
RW-116S	08/13/2018	2.9	20.6	0.0	0.0	0.25	4.55	16.48	169.2	3,830	-
RW-116S	10/18/2018	-	-	-	-	-	6.52	-	-	-	-
RW-116S	11/12/2018	8.5	20.9	0.2	0.0	2.5	5.07	16.11	56.7	304	-
RW-116S	11/27/2018	-	-	-	-	-	5.60	-	-	-	-
RW-116S	01/10/2019	-	-	-	-	-	6.19	-	-	-	-
RW-117S	08/04/2015	3.2	20.5	0.0	0.0	0.27	6.92	16.29	-76.5	1,740	-
RW-117S	12/01/2015	422.3	17.3	3.1	2.1	0.06	6.64	17.06	-100.6	1,420	-
RW-117S	03/14/2016	84.0	19.6	1.2	0.2	DRY					
RW-117S	04/21/2016	74.5	20.8	0.1	0.2	DRY					
RW-117S	05/23/2016	54.0	20.9	0.2	0.0	DRY					
RW-117S	08/24/2016	52.0	-	-	-	DRY					
RW-117S	08/30/2016	290.6	21.2	0.3	0.0	6.21	5.62	21.90	131.90	1,320	-
RW-117S	11/28/2016	-	-	-	-	2.83	7.19	15.87	-59.60	1,124	-
RW-117S	12/08/2016	16.9	20.9	0.1	0.0	-	-	-	-	-	-

Table 4

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-117S	02/21/2017	9.1	20.9	0.0	0.0	DRY					
RW-117S	05/22/2017	0.0	20.3	0.3	0.0	DRY					
RW-117S	08/28/2017	0.0	20.9	0.0	0.0	2.85	7.08	18.97	65.9	2,806.7	-
RW-117S	08/31/2017	-	-	-	-	-	4.97	21.6	-	-	-
RW-117S	11/28/2017	0.3	21.6	0.0	0.0	DRY					
RW-117S	02/20/2018	1.8	14.0	4.2	0.0	-	-	-	-	-	-
RW-117S	02/21/2018	-	-	-	-	DRY					
RW-117S	05/21/2018	0.2	20.7	0.0	0.0	DRY					
RW-117S	08/13/2018	0.8	19.7	0.7	0.0	0.59	6.55	16.46	-45.10	2790	-
RW-117S	10/02/2018	-	-	-	-	-	6.13	-	-	-	-
RW-117S	10/18/2018	-	-	-	-	-	6.64	-	-	-	-
RW-117S	11/12/2018	20.6	20.9	0.3	0.0	2.7	4.90	16.04	61.70	503	-
RW-117S	11/27/2018	-	-	-	-	-	5.93	-	-	-	-
RW-117S	01/10/2019	-	-	-	-	-	5.72	-	-	-	-
RW-118S	08/04/2015	19.6	6.4	7.3	0.1	0.14	6.78	16.32	-59.8	1,350	-
RW-118S	08/29/2017	-	-	-	-	-	6.12	18.1	-	-	-
RW-118S	11/28/2017	-	-	-	-	-	6.23	-	-	-	-
RW-119S	08/04/2015	2.4	12.8	3.4	2.1	0.03	6.69	16.60	-15.9	1,020	-
RW-119S	07/10/2017	-	-	-	-	-	6.48	-	-	-	-
RW-119S	11/28/2017	-	-	-	-	-	6.87	-	-	-	-
TW-02	10/13/2014	0.3	17.4	-	-	1.01	6.43	18.32	-	523	-
TW-02	10/23/2014	-	-	-	-	0.65	6.70	17.24	-63.8	1,189	-
TW-02	02/24/2015	0.0	19.9	0.3	0.3	-	-	-	-	-	-
TW-02	02/25/2015	-	-	-	-	1.56	6.24	8.82	96.2	991	-
TW-02	05/11/2015	-	-	-	-	1.62	6.60	21.64	-49.5	1,230	-
TW-02	08/05/2015	-	-	-	-	0.27	6.82	18.28	-68.9	792	31.9

Table 4

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-02	08/24/2016	-	-	-	-	0.34	7.10	17.85	-133.2	849	4.0
TW-02	11/28/2017	-	-	-	-	0.14	6.87	17.80	-138.8	474	6.3
TW-03	10/13/2014	0.3	19.5	-	-	1.86	5.73	19.23	-	503	-
TW-03	10/23/2014	-	-	-	-	0.71	6.12	18.54	38.1	489	-
TW-03	02/24/2015	0.0	3.1	10.4	0.3	-	-	-	-	-	-
TW-03	02/25/2015	-	-	-	-	0.75	6.21	8.92	64.8	609	-
TW-03	05/11/2015	0.0	8.5	10.2	0.0	2.03	5.77	20.61	110.5	480	-
TW-03	08/04/2015	0.0	7.8	14.3	0.0	0.26	5.40	21.76	80.4	602	70.6
TW-03	03/14/2016	0.0	9.2	8.0	0.1	-	-	-	-	-	-
TW-03	05/23/2016	WELL OPEN & BEING SAMPLED UPON ARRIVAL, NEVER RECEIVED LOW-FLOW SAMPLING DATA									
TW-03	08/24/2016	164.4	-	-	-	-	-	-	-	-	-
TW-03	08/25/2016	-	-	-	-	0.24	5.33	22.34	92.4	762	5.87
TW-03	08/30/2016	132.6	21.8	0.1	0.0	-	-	-	-	-	-
TW-03	11/28/2016	5.7	19.0	1.8	0.0	0.93	5.68	18.07	98.1	629	4.42
TW-03	02/21/2017	0.4	19.4	0.9	0.0	3.39	5.8	12.94	48.5	470	-
TW-03	05/22/2017	1.0	14.5	1.3	0.0	0.56	5.4	15.99	105.6	971	10.0
TW-03	08/28/2017	0.9	10.1	6.1	0.0	1.07	7.2	19.79	60.2	590	-
TW-03	11/28/2017	0.2	19.5	1.0	0.0	1.04	5.7	19.24	32.5	1,179	8.7
TW-03	02/20/2018	0.2	18.5	0.5	0.0	-	-	-	-	-	-
TW-03	02/21/2018	-	-	-	-	3.98	6.7	20.57	121.9	970	-
TW-03	05/21/2018	0.2	17.9	0.3	0.0	0.95	5.6	15.49	77.5	1,131	-
TW-03	08/13/2018	0.5	6.0	14.1	0.0	0.14	5.5	20.79	83.5	1,169	4.6
TW-03	11/12/2018	0.1	9.4	9.8	0.0	0.13	5.7	17.83	171.3	1,110	2.7
TW-04	10/13/2014	2.0	19.2	-	-	1.67	5.73	19.08	-	1,344	-
TW-04	10/23/2014	-	-	-	-	0.70	5.76	18.95	35.0	1,232	-
TW-04	02/24/2015	1.2	15.7	4.4	0.3	-	-	-	-	-	-

Table 4

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	02/25/2015	-	-	-	-	2.36	5.86	6.96	65.1	1,862	-
TW-04	05/11/2015	-	-	-	-	1.92	6.19	19.77	-22.7	1,390	-
TW-04	08/04/2015	-	-	-	-	0.16	6.23	19.04	-35.7	1,203	210
TW-04	08/24/2016	-	-	-	-	0.75	6.17	20.20	-23.4	1,534	6.96
TW-04	08/30/2016	77.1	21.6	0.0	0.0	-	-	-	-	-	-
TW-04	11/28/2017	-	-	-	-	4.60	5.59	17.69	32.1	2,194	over range
TW-05	10/13/2014	129.3	17.0	-	-	1.26	5.23	18.64	61.2	1,204	-
TW-05	10/15/2014	8.7	20.5	-	-	-	-	-	-	-	-
TW-05	10/20/2014	16.0	20.6	0.1	0.0	-	-	-	-	-	-
TW-05	10/23/2014	-	-	-	-	0.85	5.73	19.04	49.2	1,121	-
TW-05	02/24/2015	16.0	11.1	8.6	0.7	-	-	-	-	-	-
TW-05	02/25/2015	-	-	-	-	0.85	6.19	7.42	37.1	992	-
TW-05	05/11/2015	22.1	4.6	12.9	0.0	0.15	5.60	18.61	54.0	800	-
TW-05	08/04/2015	8.2	7.2	13.3	0.0	0.38	5.86	19.61	21.5	901	87.0
TW-05	03/14/2016	0.3	12.3	6.5	0.0	-	-	-	-	-	-
TW-05	05/23/2016	31.7	20.8	0.2	0.0	DID NOT RECEIVE LOW-FLOW SAMPLING DATA					
TW-05	08/25/2016	21.2	20.1	0.3	0.0	6.97	6.15	22.25	-1.1	1,303	171
TW-05	11/28/2016	0.8	20.9	0.0	0.0	-	-	-	-	-	-
TW-05	11/29/2016	-	-	-	-	5.11	6.06	17.85	21.0	1,076	36.5
TW-05	02/21/2017	3.1	20.9	0.0	0.0	2.75	6.17	12.44	27.0	1,040	-
TW-05	05/22/2017	0.8	20.9	0.2	0.1	0.47	6.03	15.39	32.1	1,423	50.8
TW-05	08/28/2017	13.9	19.9	0.1	0.0	1.50	5.65	21.33	75.7	1,329	-
TW-05	11/28/2017	0.4	20.9	0.0	0.0	3.99	5.23	17.14	44.9	1,853	2,195
TW-05	02/20/2018	0.4	20.5	0.0	0.0	-	-	-	-	-	-
TW-05	02/21/2018	-	-	-	-	2.70	4.35	15.48	204.4	2,060	-
TW-05	05/21/2018	6.7	19.8	0.0	0.0	-	-	-	-	-	-

Table 4

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-05	08/13/2018	399.2	19.4	0.6	0.0	-	-	-	-	-	-
TW-05	10/02/2018	-	-	-	-	-	6.71	-	-	-	-
TW-05	11/12/2018	1.6	20.9	0.0	0.0	1.0	5.11	16.61	194.7	640	36
TW-05	01/10/2019	-	-	-	-		4.12	-	-	-	-
TW-06	10/13/2014	39.8	14.4	-	-	1.31	6.42	18.99	-	983	-
TW-06	10/15/2014	78.9	11.0	-	-	1.33	6.54	21.65	-65.0	873	-
TW-06	10/15/2014	-	-	-	-	0.31	6.28	19.79	-46.8	986	-
TW-06	10/20/2014	0.8	5.4	12.0	0.0	-	-	-	-	-	-
TW-06	10/23/2014	-	-	-	-	0.84	6.51	18.95	-68.8	823	-
TW-06	02/24/2015	0.7	5.0	8.9	0.3	-	-	-	-	-	-
TW-06	02/25/2015	-	-	-	-	0.84	6.75	7.20	-32.9	882	-
TW-06	05/11/2015	-	-	-	-	1.33	6.49	18.61	-69.1	710	-
TW-06	08/04/2015	-	-	-	-	0.22	6.17	19.07	-36.8	975	30.5
TW-06	12/01/2015	4.7	1.1	14.5	0.0	-	-	-	-	-	-
TW-06	03/14/2016	0.0	11.6	4.1	0.1	-	-	-	-	-	-
TW-06	04/21/2016	0.6	10.3	5.6	0.2	1.45	6.32	16.91	-24.4	620	-
TW-06	05/23/2016	0.0	20.8	0.1	0.0	-	-	-	-	-	-
TW-06	05/24/2016	-	-	-	-	0.08	6.62	15.82	-17.3	921	-
TW-06	08/24/2016	0.5	16.8	2.4	0.0	-	-	-	-	-	-
TW-06	08/25/2016	-	-	-	-	0.17	6.02	21.24	-51.9	1,713	6.70
TW-06	11/28/2016	29.5	16.7	1.3	0.1	-	-	-	-	-	-
TW-06	11/29/2016	-	-	-	-	0.86	5.81	18.29	-13.5	1,708	3.21
TW-06	02/21/2017	1.5	19.8	0.6	0.0	1.69	6.48	12.81	18.0	1,320	-
TW-06	05/22/2017	1.7	19.4	0.3	0.0	0.45	6.13	15.77	-12.6	1,386	1.41
TW-06	08/28/2017	4.5	16.3	1.3	0.0	1.62	5.49	21.06	77.0	1,567.1	-
TW-06	11/28/2017	0.1	20.8	0.0	0.0	0.26	4.39	19.12	142.3	2,413	16.20

Table 4

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	02/20/2018	3.4	19.5	0.1	0.0	-	-	-	-	-	-
TW-06	02/21/2018	-	-	-	-	2.88	4.87	16.65	142.8	1,160	-
TW-06	05/21/2018	1.0	19.0	0.0	0.0	0.78	5.32	15.59	127.5	708	-
TW-06	08/13/2018	12.2	13.6	2.5	0.0	0.23	5.03	19.18	109.3	512	2.74
TW-06	11/12/2018	0.2	20.9	0.2	0.0	1.91	6.08	15.33	184.1	356	2.01
TW-07	10/13/2014	33.5	16.4	-	-	1.40	4.96	19.08	-	580	-
TW-07	10/15/2014	15.6	15.4	-	-	0.40	4.94	20.81	97.9	569	-
TW-07	10/20/2014	0.0	14.6	5.0	0.0	-	-	-	-	-	-
TW-07	10/23/2014	-	-	-	-	0.41	4.99	19.04	139.5	415	-
TW-07	02/24/2015	0.0	14.4	7.2	0.3	-	-	-	-	-	-
TW-07	02/25/2015	-	-	-	-	1.53	5.07	7.15	244.8	640	-
TW-07	05/11/2015	0.0	9.0	11.0	0.0	2.02	4.70	20.64	202.2	660	-
TW-07	08/04/2015	0.0	7.2	16.9	0.0	0.20	4.39	22.88	150.0	629	65.8
TW-07	03/14/2016	0.0	18.8	2.3	0.1	-	-	-	-	-	-
TW-07	05/23/2016	2.3	19.9	0.7	0.0	-	-	-	-	-	-
TW-07	05/24/2016	-	-	-	-	0.90	4.85	15.88	206.9	653	-
TW-07	08/24/2016	1.6	-	-	-	-	-	-	-	-	-
TW-07	08/25/2016	-	-	-	-	6.99	4.58	24.52	223.9	722	45
TW-07	08/30/2016	98.2	21.7	0.0	0.0	-	-	-	-	-	-
TW-07	11/28/2016	0.5	20.9	1.0	0.0	-	-	-	-	-	-
TW-07	11/30/2016	-	-	-	-	6.66	4.60	15.79	172.6	524	3.92
TW-07	02/21/2017	0.2	20.0	0.5	0.0	2.27	4.90	11.29	56.2	580	-
TW-07	05/22/2017	0.8	18.9	0.9	0.0	0.89	4.89	17.01	149.0	788	20.0
TW-07	08/28/2017	0.1	20.0	0.3	0.0	1.92	5.97	21.69	74.2	1,011.5	-
TW-07	11/28/2017	0.0	20.6	0.3	0.0	2.25	5.11	16.23	121.0	922.0	3,373 (au)
TW-07	02/20/2018	0.1	20.3	0.2	0.0	-	-	-	-	-	-

Table 4

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-07	02/21/2018	-	-	-	-	3.25	6.13	18.48	94.5	420	-
TW-07	05/21/2018	0.0	19.7	0.0	0.0	1.13	5.52	17.54	91.7	606	-
TW-07	08/13/2018	1.0	9.3	10.5	0.0	0.81	5.00	22.62	151.5	626	0.7
TW-07	11/12/2018	0.0	13.8	3.4	0.0	0.88	4.87	16.24	55.8	730	1.8
TW-12S	10/10/2014	0.8	18.5	-	-	-	-	-	-	-	-
TW-12S	02/24/2015	0.0	15.0	2.8	0.3	-	-	-	-	-	-
TW-14	10/10/2014	2.3	19.5	-	-	-	-	-	-	-	-
TW-14	10/20/2014	0.0	20.0	0.7	0.0	-	-	-	-	-	-
TW-14	10/23/2014	-	-	-	-	1.99	7.48	19.13	-47.2	562	-
TW-14	02/24/2015	0.0	20.3	0.3	0.3	-	-	-	-	-	-
TW-14	02/25/2015	-	-	-	-	3.80	7.18	3.96	-6.1	465	-
TW-14	05/11/2015	-	-	-	-	1.16	7.14	22.53	-114.6	760	-
TW-14	08/06/2015	-	-	-	-	0.73	6.88	24.20	-107.8	828	-
TW-14	08/24/2016	-	-	-	-	1.20	7.20	24.48	-58.7	517	1.17
TW-14	08/30/2017	-	-	-	-	8.66	6.52	21.9	-61.9	852	680 (au)
TW-14	11/12/2018	-	-	-	-	3.35	7.12	13.2	24.5	410	0.38

Notes:

- = Not available
% = Percent
µS/cm = Microsiemens per centimeter
deg C = Degrees Celsius
mg/L = Milligrams per liter
(cont.) = continued
mV = Millivolts
ORP = Oxidation-Reduction Potential
ppm = Parts per million
NTU = Nephelometric Turbidity Unit
DRY = Not enough water in well to take measurements.
PRODUCT = No measurements taken due to product in the well.
AU = Attenuation Unit. The light is measured at 180 degrees to incident beam, versus and unlike NTU, which is measured at 90 degrees to incident beam.

Table 5

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfur (mg/L)	Sulfide (mg/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	4,200	-	-	130	0.044 J	0.037 J	306	31.4	-
MW-01S	3/16/2016	4,500	-	-	27.9	<0.040	0.017 J	367	9.3	14.5
MW-01S	8/25/2016	1,200	-	-	257	<0.040	<0.015	226	15.1	10.4
MW-01S	2/22/2017	500	-	-	312	<0.040	0.030 J	138	33.5	8.49
MW-01S	5/24/2017	528	-	-	174	<0.11	<0.010	221	17.4	7.79
MW-01S	8/29/2017	2,730	46.6	-	170	<0.11	<0.010	292	2.3	10.1
MW-01S	11/29/2017	2,330	-	-	29	<0.11	<0.010	437	3.4	9.54
MW-01S	2/22/2018	5,030	-	-	119	<0.11	<0.010	374	0.2	12.6
MW-01S	5/24/2018	2,130	-	-	22.8	0.16	0.023	258	<0.2	5.86
MW-01S	8/14/2018	1,400	-	-	208.0	<0.040	<0.015	195	43.4	14.8
MW-08S	8/29/2017	-	202	-	696	-	-	122	-	-
MW-08S	11/29/2017	-	-	-	524	-	-	-	-	-
MW-08S	2/20/2018	-	-	-	444	-	-	-	-	-
MW-08S	5/21/2018	-	-	-	643	-	-	-	-	-
MW/RW-10S	10/22/2014	1,100	-	-	33.1	<0.040	0.037 J	461	62.8	-
MW/RW-10S	3/14/2016	1,800	-	-	193	<0.040	0.088	427	129	4.04
MW/RW-10S	5/24/2016	11	-	-	716	<0.040	<0.015	0.7 J	31.2	4.85
MW/RW-10S	8/25/2016	<3.0	-	-	824	0.076 J	<0.015	25.5	5.1	3.6
MW/RW-10S	11/29/2016	<3.0	-	-	488	0.21	<0.015	128	206	2.83
MW/RW-10S	8/29/2017	3.9	442	-	2150	0.64	<0.010	<5	199	8.89
MW/RW-10S	11/30/2017	<0.11	-	-	1640	<0.11	<0.010	75.2	242	10.8
MW/RW-10S	2/22/2018	16.7	-	-	1240	<0.11	<0.010	90.3	257	9.85
MW/RW-10S	5/24/2018	10.1	-	-	763	<0.11	<0.010	115	182	5.73
MW/RW-10S	8/14/2018	54	-	-	838	0.93	0.059	248	136	6.66
MW/RW-10S	11/13/2018	9.7	-	-	407	<0.040	<0.015	<1.7	66.4	3.38
MW-11	10/22/2014	120	-	-	71.9	<0.040	<0.015	55	0.059	-
MW-11	2/26/2015	200	-	-	79.8	<0.040	<0.015	39	0.37	1.64
MW-11	5/12/2015	280	-	-	70.5	<0.040	<0.015	40.8	0.75	1.73
MW-11	8/6/2015	450	-	-	118	<0.040	0.049 J	356	21.9	5.67
MW-11	11/13/2018	2000	-	-	190	0.089 J	<0.015	162	41.0	11.2
MW/RW-14	2/25/2015	230	-	-	51.4	0.7	<0.015	63	2.5	8.66
MW/RW-14	5/12/2015	660	-	-	44.3	0.6	0.023 J	76.8	6.3	8.54
MW/RW-14	8/6/2015	1,800	-	-	45.9	0.15	0.11	304	18	15.1
MW/RW-14	3/15/2016	5,800	-	-	23.8	<0.040	0.050 J	171	22.2	6.81
MW/RW-14	8/25/2016	<3.0	-	-	42.5	1.8	<0.015	10.9	0.12	0.485
MW/RW-14	11/29/2016	<3.0	-	-	37.9	1.60	<0.015	8.8	0.029 J	0.107
MW/RW-14	2/22/2017	6	-	-	40.3	1.50	<0.015	9.1	0.20	0.190
MW/RW-14	5/22/2017	1.5	-	-	37.7	1.80	<0.010	8.8	<0.20	0.044
MW/RW-14	11/30/2017	0.11	-	-	41.4	1.80	<0.010	6.7	<0.20	<0.015
MW/RW-14	2/21/2018	0.11	-	-	37.6	1.80	<0.010	8.1	<0.20	0.0191
MW/RW-14	5/24/2018	64.80	-	-	45.2	0.79	<0.010	58.9	13.80	1.62
MW/RW-14	8/15/2018	<3.0	-	-	36.7	1.60	<0.015	9.7	0.36	0.32
MW/RW-14	11/13/2018	850	-	-	83.5	<0.040	<0.015	74.5	40.7	2.32
MW-15S	8/29/2017	-	72.9	-	270	-	-	487	-	-
MW-15S	2/20/2018	-	-	-	73.2	-	-	-	-	-

Table 5

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfur (mg/L)	Sulfide (mg/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-15S	5/22/2018	-	-	-	352	-	-	-	-	-
MW-16	8/30/2017	-	55.6	<0.2	212	-	-	39.5	-	-
MW-16	11/30/2017	-	-	-	222	-	-	22.7	-	-
MW-16	2/20/2018	-	-	-	243	-	-	-	-	-
MW-16	5/22/2018	-	-	-	275	-	-	-	-	-
MW-25S	11/29/2017	-	-	-	-	-	-	364	-	-
MW-25S	11/12/2018	-	-	-	-	-	-	15.2	-	-
MW/RW-25	11/30/2017	-	-	-	-	-	-	14.4	-	-
MW/RW-25	11/12/2018	-	-	-	-	-	-	40.8	-	-
MW-27	12/3/2015	2,500	-	-	112	<0.040	<0.015	424	33.4	10.9
MW-27	3/15/2016		-	-	214	<0.040	0.022 J	439	34	10.3
MW-27	5/25/2016	<3.0	-	-	452	<0.040	<0.015	44.3	4.4	6.85
MW-27	8/25/2016	<3.0	-	-	604	<0.040	<0.015	16.3	1.3	12.4
MW-27	11/29/2016	<3.0	-	-	293	0.16	<0.015	33.4	0.8	5.84
MW-27	2/22/2017	<3.0	-	-	322	<0.040	<0.015	15.4	0.53	5.51
MW-27	5/23/2017	1.4	-	-	352	<0.11	<0.010	42.0	0.61	8.12
MW-27	11/29/2017	0.27	-	-	384	<0.11	<0.010	79.8	0.90	4.61
MW-27	2/21/2018	0.33	-	-	890	<0.11	<0.010	5.6	0.66	8.18
MW-27	5/24/2018	39.80	-	-	957	<0.11	<0.010	80.0	37.5	14.3
MW-27	8/14/2018	270	-	-	1,020	<0.040	<0.015	74.3	58.1	20.5
MW-27	11/14/2018	560	-	-	1,020	<0.040	<0.015	72.2	53.5	14.2
MW/RW-31	10/23/2014	4,300	-	-	57.2	<0.040	<0.015	416	2.6	-
MW/RW-31	2/25/2015	5,000	-	-	69.7	<0.040	<0.015	487	9.3	9.84
MW/RW-31	5/13/2015	5,700	-	-	70.1	<0.040	<0.015	510	15.4	10.8
MW/RW-31	8/5/2015	5,400	-	-	85.3	<0.040	<0.015	482	10	5.52
MW/RW-31	11/30/2017	-	-	-	-	-	-	102	-	-
MW-33	10/23/2014	43	-	-	253	1.9	<0.015	119	0.068	-
MW-33	2/25/2015	9.8	-	-	235	2.5	<0.015	55.6	0.030 J	1.23
MW-33	5/13/2015	7.3	-	-	254	2	<0.015	81.7	0.075	0.975
MW-33	8/5/2015	17	-	-	253	1.8	<0.015	97.7	<0.010	0.605
MW-33	8/30/2017	-	-	-	-	-	-	41.5	-	-
MW-51S	10/22/2014	7,100	-	-	36.3	0.047 J	<0.015	564	28.7	-
MW-51S	2/26/2015	8,900	-	-	6.2	<0.040	0.12	518	82.4	4.49
MW-51S	5/13/2015	11,000	-	-	<1.5	<0.040	0.2	676	77.3	1.74
MW-51S	8/6/2015	10,000	-	-	26.1	<0.040	0.046	480	48.3	1.03
MW-51S	3/15/2016	13,000	-	-	535	<0.040	0.049 J	585	69	4.64
MW-51S	5/24/2016	3,800	-	-	884	<0.040	0.039 J	335	32	3.46
MW-51S	8/25/2016	1,700	-	-	895	<0.040	0.11	354	22	10.3
MW-51S	11/29/2016	4,800	-	-	138	<0.040	0.039 J	617	6.5	2.11
MW-51S	2/21/2017	2,400	-	-	60	<0.40	<0.15	477	2.4	4.08
MW-51S	5/24/2017	20.4	-	-	1,160	0.12	<0.010	52.5	80.8	14.1
MW-51S	8/29/2017	29.3	223	-	836	<0.11	<0.010	169	90.1	10.9
MW-51S	11/29/2017	418	-	-	464	<0.11	<0.010	493	135	5.7
MW-51S	2/22/2018	436	-	-	577	<0.11	<0.010	287	7.7	5.8
MW-51S	5/21/2018	-	-	-	604	-	-	341	-	-

Table 5

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfur (mg/L)	Sulfide (mg/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-51S	5/24/2018	204	-	-	-	<0.11	<0.010	-	<0.20	6.54
MW-51S	8/15/2018	1,400	-	-	481	<0.040	<0.015	233	99.7	7.17
MW-51S	11/13/2018	86	-	-	384	<0.040	<0.015	108	102	7.35
MW/RW-51	11/30/2017	-	-	-	-	-	-	70	-	-
MW/RW-51	2/21/2018	-	-	-	157	-	-	-	-	-
MW/RW-51	5/22/2018	-	-	-	57.6	-	-	-	-	-
MW/RW-51	11/13/2018	-	-	-	-	-	-	79.0	-	-
MW-52	8/28/2017	-	-	-	-	-	-	93.8	-	-
MW-70	2/26/2015	<3.0	-	-	361	0.71	<0.015	35.1	0.048 J	2.62
MW-70	5/12/2015	3.4 J	-	-	357	0.7	<0.015	40.7	<0.50	6.13
MW-70	8/6/2015	<3.0	-	-	365	0.73	<0.015	29.6	0.089	1.29
MW-70	8/28/2017	-	-	-	-	-	-	24.6	-	-
MW/RW-72S	10/22/2014	4,400	-	-	80.3	0.093 J	0.019 J	328	9.1	-
MW/RW-72S	2/25/2015	3,600	-	-	64.5	<0.040	<0.015	615	16.7	8.49
MW/RW-72S	5/13/2015	4,100	-	-	130	<0.040	0.097	597	24.6	8.46
MW/RW-72S	8/5/2015	2,300	-	-	207	<0.040	0.067	697	30.7	11.7
MW/RW-72S	3/14/2016	310	-	-	508	<0.040	0.054	543	71.4	16.7
MW/RW-72S	5/25/2016	20	-	-	1,500	<0.040	<0.015	<0.7	51.9	34.8
MW/RW-72S	8/25/2016	15	-	-	982	<0.040	<0.015	<1.7	78.9	24.5
MW/RW-72S	5/23/2017	14	-	-	2,320	<0.11	<0.010	<5.0	238	56.6
MW/RW-72S	8/30/2017	16.1	657	-	3,260	<0.11	<0.010	<5.0	120	50.2
MW/RW-72S	11/30/2017	23.1	-	-	1,880	<0.11	<0.010	<5.0	110	34.5
MW/RW-72S	2/21/2018	0.28	-	-	2,010	0.36	0.043	<5.0	4.4	58.3
MW/RW-72S	5/24/2018	51.4	-	-	2,030	<0.11	<0.010	<5.0	35.2	27
MW/RW-72S	8/14/2018	990	-	-	1,500	<0.040	<0.015	<1.7	99.3	13.4
MW/RW-72S	11/14/2018	240	-	-	1,480	0.22	<0.015	<1.7	30.2	14.1
MW/RW-72	10/22/2014	2,200	-	-	389	<0.040	<0.015	65.5	0.33	-
MW/RW-72	2/25/2015	490	-	-	396	<0.040	<0.015	72.7	4.8	18.8
MW/RW-72	5/13/2015	540	-	-	434	<0.040	0.057	101	10.8	17.5
MW/RW-72	8/5/2015	1,400	-	-	393	<0.040	<0.015	548	14.3	13.5
MW/RW-72	5/24/2016	<3.0	-	-	246	0.25	<0.015	24	0.073	1.72
MW/RW-72	8/25/2016	<3.0	-	-	351	0.12	<0.015	25.1	0.085	3.6
MW/RW-72	11/29/2016	<3.0	-	-	438	0.14	0.025 J	4 J	0.5	14.6
MW/RW-72	2/22/2017	<3.0	-	-	372	0.42	<0.015	2.8 J	0.017 J	1.88
MW/RW-72	5/23/2017	0.90	-	-	1,450	<0.11	<0.010	<5.0	0.58	34.9
MW/RW-72	11/29/2017	0.22	-	-	1,080	0.27	<0.010	<5.0	<0.20	22.8
MW/RW-72	2/21/2018	0.28	-	-	879	0.28	<0.010	<5.0	<0.20	5.24
MW/RW-72	5/24/2018	17.40	-		1,390	<0.11	<0.010	<5.0	2.8	23.8
MW/RW-72	8/14/2018	220	-	-	1,720	<0.040	<0.015	<1.7	12.2	30.7
MW/RW-72	11/14/2018	390	-	-	1,130	<0.040	<0.015	<1.7	10.5	25.2
MW-100S	11/29/2016	25	-	-	353	<0.040	0.20 J	37.5	71.6	11.5
MW-100S	8/30/2017	-	74	<0.2	269	-	-	116	-	-
MW-100S	11/30/2017	16.5	-	-	319	<0.11	<0.010	46.4	16.5	9.31
MW-100S	2/20/2018	-	-	-	333	-	-	-	-	-
MW-100S	5/22/2018	-	-	-	268	-	-	-	-	-

Table 5

HISTORICAL GROUNDWATER BIOSTIMULATION ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfur (mg/L)	Sulfide (mg/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-100S	11/14/2018	51	-	-	256	0.47	0.038 J	84.2	5.61	2.20
MW-100	11/29/2016	12	-	-	56.3	2.60	0.061	29.2	0.19	0.902
MW-100	8/30/2017	-	7.15	<0.2	22.1	-	-	38.5	-	-
MW-100	11/30/2017	<0.11	-	-	47.3	1.9	<0.010	21.6	<1.0	0.446
MW-100	11/14/2018	5.1	-	-	55.3	2.4	<0.015	25.8	0.112	0.978
MW-102	8/30/2017	-	-	-	-	-	-	44.6	-	-
MW-103	8/30/2017	-	-	-	-	-	-	55.4	-	-
MW-104	8/30/2017	-	9.28	-	29.2	-	-	256	-	-
MW-105	8/30/2017	-	-	-	-	-	-	117	-	-
MW-106	2/25/2015	260	-	-	1,600	<0.040	0.021 J	<7.0	122	2.23
MW-106	5/12/2015	960	-	-	1,160	<0.040	0.15	<0.70	50.1	1.49
MW-106	8/5/2015	2,100	-	-	1,010	<0.040	<0.015	35.1	32.7	1.38
MW-106	3/15/2016	1,600	-	-	1,250	<0.040	0.016 J	<0.70	25.1	1.67
MW-106	5/24/2016	3 J	-	-	1,310	<0.040	<0.015	<0.7	4.4	2.69
MW-106	8/25/2016	<3.0	-	-	1,270	<0.040	<0.015	<1.7	3.3	1.42
MW-106	11/29/2016	6.9	-	-	1,410	<0.040	<0.015	<1.7	9.6	1.55
MW-106	2/22/2017	4.3 J	-	-	1,310	<0.040	<0.015	<1.7	3.4	1.78
MW-106	5/23/2017	11.3	-	-	1,690	0.38	0.013	<5.0	5.2	4.28
MW-106	2/21/2018	0.14	-	-	1,700	<0.11	<0.010	<5.0	2.9	3.11
MW-106	5/24/2018	<0.11	-	-	823	0.24	<0.010	<5.0	<0.20	0.136
MW-106	8/14/2018	7.8	-	-	1,680	0.13	<0.015	<1.7	6.6	2.71
MW-106	11/13/2018	12	-	-	992	0.42	<0.015	<1.7	5.07	1.77
MW-109S	10/20/2014	1,000	-	-	18.8	<0.040	0.037 J	368	8	-
MW-109S	2/26/2015	140	-	-	55.4	<0.040	<0.015	196	3.1	2.64
MW-109S	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	-
MW-112S	2/26/2015	<3.0	-	-	86.7	2.3	<0.015	13.3	0.029 J	0.649
MW-112S	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	-
MW-114	2/26/2015	<3.0	-	-	42.7	1.7	<0.015	68	0.016 J	0.102
MW-114	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
MW-121	5/25/2016	3,300	-	-	115	<0.040	<0.015	374	81.4	22
MW-121	8/25/2016	100	-	-	186	<0.040	<0.015	331	14.5	12.6
MW-121	11/29/2016	1,500	-	-	227	<0.040	<0.015	302	24.7	10.3
MW-121	2/22/2017	490	-	-	297	<0.040	0.045 J	262	15.9	12.5
MW-121	5/24/2017	452	-	-	163	<0.11	<0.010	288	3.2	7.06
MW-121	8/29/2017	35.5	34.1	-	122	<0.11	<0.01	158	0.52	4.4
MW-121	11/29/2017	4	-	-	83.3	<0.11	0.015	113	1.4	4.02
MW-121	2/22/2018	7.4	-	-	117	<0.11	<0.010	157	<0.2	5.32
MW-121	5/24/2018	28.8	-	-	131	<0.11	<0.010	250	14.6	9.64
MW-121	8/15/2018	23	-	-	55.5	<0.040	<0.015	293	79.9	9.28
MW-121	11/14/2018	60	-	-	241	<0.040	0.092	208	45.8	12.1
MW-122	12/2/2015	1,000	-	-	94.3	<0.040	<0.015	451	7.2	13.1
MW-122	5/25/2016	450	-	-	188	0.048 J	<0.015	300	90.8	16.3

Table 5

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1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfur (mg/L)	Sulfide (mg/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	8/25/2016	280	-	-	182	<0.040	<0.015	272	9.1	4.12
MW-122	11/29/2016	450	-	-	180	<0.040	<0.015	284	11.1	3.64
MW-122	2/22/2017	350	-	-	190	<0.040	<0.015	291	2.8	4.87
MW-122	5/24/2017	6.2	-	-	239	<0.11	<0.010	257	<0.20	3.71
MW-122	8/30/2017	-	94	<0.20	-	-	-	-	-	-
MW-122	11/29/2017	1.3	-	-	383	<0.11	<0.010	86.5	<0.20	12.3
MW-122	2/22/2018	8.1	-	-	1,210	<0.11	<0.010	47.2	1.5	35.8
MW-122	5/24/2018	10.1	-	-	753	<0.11	<0.010	469	46.4	18.4
MW-122	8/15/2018	24	-	-	221	<0.040	<0.015	427	40.8	6.58
MW-122	11/14/2018	87	-	-	273	<0.040	<0.015	346	33.9	87
RW-123S	8/29/2017	-	74.9	-	236	-	-	165	-	-
RW-123S	11/29/2017	-	-	-	77.2	-	-	-	-	-
RW-123S	2/22/2018	-	-	-	154	-	-	-	-	-
RW-123S	5/23/2018	-	-	-	86.1	-	-	-	-	-
RW-123S	11/13/2018	-	-	-	-	-	-	160	-	-
RW-1	8/29/2017	-	5.22	-	15.3	-	-	50.8	-	-
RW-1	2/22/2018	-	-	-	25.5	-	-	46.2	-	-
RW-1	5/22/2018	-	-	-	5.2	-	-	164	-	-
RW-1	8/15/2018	-	-	-	47	-	-	233	-	-
RW-1	11/14/2018	-	-	-	86.9	-	-	207	-	-
RW-05S	8/29/2017	-	446	-	-	-	-	-	-	-
RW-05S	2/22/2018	-	-	-	744	-	-	<5.0	-	-
RW-05S	5/22/2018	-	-	-	692	-	-	267	-	-
RW-05S	8/14/2018	-	-	-	1,030	-	-	200	-	-
RW-05S	11/12/2018	-	-	-	-	-	-	6.8	-	-
MW/RW-05	11/28/2017	-	-	-	-	-	-	21.1	-	-
MW/RW-05	11/12/2018	-	-	-	-	-	-	41.2	-	-
RW-25S	2/22/2018	-	-	-	286	-	-	140	-	-
RW-25S	5/21/2018	-	-	-	58.6	-	-	320	-	-
RW-25S	8/14/2018	-	-	-	284	-	-	451	-	-
RW-25S	11/12/2018	-	-	-	-	-	-	112	-	-
RW-28S	2/22/2018	-	-	-	756	-	-	86.3	-	-
RW-28S	5/22/2018	-	-	-	876	-	-	113	-	-
RW-28S	8/14/2018	-	-	-	1,250	-	-	111	-	-
RW-28S	11/14/2018	-	-	-	887	-	-	148	-	-
RW-116S	2/22/2018	-	-	-	909	-	-	40.6	-	-
RW-116S	5/21/2018	-	-	-	491	-	-	88.2	-	-
RW-116S	8/14/2018	-	-	-	3,850	-	-	<1.7	-	-
RW-116S	11/12/2018	-	-	-	-	-	-	<1.7	-	-
RW-117S	11/12/2018	-	-	-	-	-	-	<1.7	-	-
RW-118S	8/29/2017	-	-	-	-	-	-	57.9	-	-
RW-118S	8/14/2018	-	-	-	1,980	-	-	83	-	-
RW-119S	8/28/2017	-	109	<0.2	403	-	-	117	-	-
RW-119S	11/29/2017	-	-	-	17.3	-	-	-	-	-
RW-119S	2/20/2018	-	-	-	356	-	-	214	-	-

Table 5

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1400 North Royal St
Alexandria, VA

Well ID	Sample Date	Methane (µg/L)	Sulfur (mg/L)	Sulfide (mg/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)
RW-119S	5/21/2018	-	-	-	533	-	-	399	-	-
RW-119S	8/14/2018	-	-	-	587	-	-	214	-	-
TW-02	8/30/2017	-	-	-	-	-	-	146	-	-
TW-03	3/4/2015	2,500	-	-	269	<0.040	0.083	49.7	29.7	5.24
TW-03	5/13/2015	2,200	-	-	298	<0.040	0.13	39	24.6	4.32
TW-03	8/6/2015	1,800	-	-	289	<0.040	0.07	<0.70	32.3	4.61
TW-03	3/16/2016	1,600	-	-	345	<0.040	0.029 J	24.7	21.9	4.99
TW-03	5/23/2016	410	-	-	365	<0.040	0.043 J	31.2	29.1	7.88
TW-03	8/25/2016	220	-	-	276	<0.040	<0.015	16.7	40.7	6.86
TW-03	11/29/2016	130	-	-	269	<0.040	0.015 J	41.2	38	7.19
TW-03	2/22/2017	75	-	-	255	<0.040	0.047 J	10.5	37.9	5.46
TW-03	5/23/2017	87	-	-	402	<0.11	<0.010	7.7	41.7	6.08
TW-03	8/30/2017	13.1	109	<0.2	370	<0.11	<0.01	<5	42.9	6.51
TW-03	11/29/2017	13.6	-	-	616	<0.11	<0.010	43.3	102	12.1
TW-03	2/21/2018	18.8	-	-	650	<0.11	<0.010	<5.0	12.1	7.71
TW-03	5/22/2018	-	-	-	547	-	-	41	-	-
TW-03	5/24/2018	11.8	-	-	-	<0.11	<0.010	-	15.1	10.2
TW-03	8/14/2018	110	-	-	546	<0.040	<0.015	24.6	59.3	7.69
TW-04	8/30/2017	-	-	-	-	-	-	<5	-	-
TW-05	3/4/2015	2,800	-	-	367	<0.040	0.13	89.4	72.6	5.28
TW-05	5/13/2015	1,300	-	-	463	0.052 J	0.18	66.2	58.6	4.77
TW-05	8/6/2015	3,000	-	-	388	-	-	-	-	-
TW-05	8/13/2015	-	-	-	-	<0.040	0.091	16.1	84.5	3.55
TW-05	3/14/2016	460	-	-	410	0.12	0.042 J	114	41.5	3.05
TW-05	8/25/2016	NA	-	-	515	<0.040	<0.015	68.7	54.5	4.91
TW-05	11/29/2016	400	-	-	524	<0.040	0.020 J	105	90.5	7.04
TW-05	2/22/2017	2,100	-	-	631	<0.040	0.084	73.4	151	10.9
TW-05	5/22/2017	583	-	-	860	<0.11	<0.010	16.6	63.8	10.2
TW-05	8/30/2017	33	263	<0.2	943	<0.11	<0.01	<5	122	31.6
TW-05	11/30/2017	-	-	-	1,140	-	-	<5	-	-
TW-05	2/21/2018	2.3	-	-	861	<0.11	<0.010	<5.0	50.9	18.8
TW-05	6/26/2018	22.4	-	-	1090	<0.11	<0.010	<10	79.6	14.8
TW-06	12/2/2015	7,000	-	-	279	<0.040	0.027 J	194	58.4	1.93
TW-06	3/15/2016	3,600	-	-	224	<0.040	0.039 J	128	53.9	1.46
TW-06	5/24/2016	3,400	-	-	402	<0.040	0.036 J	72	46	2.1
TW-06	8/25/2016	NA	-	-	931	<0.040	0.017 J	36	144	6.32
TW-06	11/29/2016	1,100	-	-	1,160	<0.040	0.041 J	27.1	249	8.28
TW-06	2/22/2017	630	-	-	794	<0.040	0.059	<1.7	121	7.46
TW-06	5/23/2017	372	-	-	535	<0.11	<0.010	<5	97.9	4.44
TW-06	8/30/2017	39.4	226	<0.2	1530	<0.11	<0.01	<5	247	6.68
TW-06	11/28/2017	20.1	-	-	1840	<0.11	<0.010	<5.0	299	12.7
TW-06	2/21/2018	7.1	-	-	822	0.46	<0.010	<5.0	95.6	6.32
TW-06	5/22/2018	-	-	-	321	-	-	<5.0	-	-
TW-06	5/24/2018	4.8	-	-	-	1.40	<0.010	-	1.2	0.17
TW-06	8/14/2018	52	-	-	420	<0.040	<0.015	7.5	77.1	1.85

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Well ID	Sample Date	Methane (µg/L)	Sulfur (mg/L)	Sulfide (mg/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)
TW-07	3/4/2015	1,300	-	-	258	<0.040	0.034 J	1.6 J	14.1	4.3
TW-07	5/13/2015	800	-	-	323	<0.040	0.046 J	1.1 J	9.5	5.62
TW-07	8/6/2015	2,700	-	-	304	<0.040	0.018 J	2.7	8.7	4.51
TW-07	8/30/2017	-	-	-	-	-	-	<5	-	-
TW-07	2/21/2018	-	-	-	296	-	-	<6	-	-
TW-07	5/22/2018	-	-	-	289	-	-	5.1	-	-
TW-07	8/13/2018	-	-	-	-	-	-	13.3	-	-
TW-07	11/12/2018	-	-	-	431	-	-	21.0	-	-
TW-14	8/30/2017	-	-	-	-	-	-	217	-	-

Notes:

J = Detected between the Method Detection Limit and the Reporting Limit; therefore, the result is an estimated value.
- = No Data
NA = Not Analyzed
<# = Less than the method detection limit of #
µg/L = Micrograms per liter
mg/L = Milligrams per liter

Table 7

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	Cumulative 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	0.73		627
March 16, 2016	0.3	0.3	10	14.0	340	150		**25.4**	8.5	11	0.52		875
March 17, 2016	0.4	0.4	19	13.7	360	313	830	**26.9**	10.1	21	0.22	2,572	993
March 21, 2016	1.3	1.3	49	15.1	320	189		**23.9**	29.8	50	0.20		1,358
March 24, 2016	3	2.5	108	-	-	-		**-**	-	-	0.16		1,920
March 30, 2016	6	5.4	238	15.1	360	210		**26.9**	212	262	0.08		2,572
Q1 2016	**11**	**10**		**14.7**	**341**	**216**			**262**		**0.18**	**2,572**	
April 7, 2016	8	7.8	426	14.7	350	120	135	**4.2**	33	295	0.14		4,207
April 13, 2016	6	5.9	568	13.7	380	71	-	21.7	129	424	0.14	4,671	5,375
April 20, 2016	7	6.3	718	14.7	360	63	-	18.0	113	537	0.12		6,431
April 27, 2016	7	5.5	851	15.1	330	59	-	15.7	87	624	0.10		7,243
May 5, 2016	8	7.7	1035	15.7	330	105	74	**2.2**	17	640	0.12		8,530
May 18, 2016	13	8.9	1248	14.4	350	48	-	13.4	119	759	0.12	4,121	10,084
May 25, 2016	7	4.8	1362	15.3	340	-	-	**2.3**	11	770	0.19		11,364
June 8, 2016	14	8.8	1573	16.5	340	37	0	**0.0**	0	770	0.15	5,196	13,273
June 21, 2016	13	12.6	1876	15.2	360	24.4	-	7.0	89	859	0.18		16,560
Q2 2016	**83**	**68**		**15.0**	**349**	**66**			**597**		**0.14**	**13,988**	
July 12, 2016	21	21.0	2379	15.8	350	44.0	<53	12.3	259	1118	0.22	9,218	23,064
July 21, 2016	9	8.8	2589	16.3	330	80.2	-	21.2	186	1303	0.22		25,778
August 4, 2016	14	14.0	2926	16.5	350	26.4	70	**2.2**	31	1334	0.30		31,745
August 15, 2016	11	7.4	3103	16.0	350	-	-	**2.2**	16	1350	0.38	10,131	35,795
August 17, 2016	2	0.2	3108	14.5	325	46.4	-	12.1	3	1353	0.38		35,909
September 1, 2016	15	10.7	3365	15.8	340	34.2	71	**2.2**	23	1376	0.24		39,684
September 22, 2016	21	20.8	3865	16.6	345	23.7	-	6.6	136	1513	0.20	11,516	45,749
September 30, 2016	8	8.0	4056	-	345	-	-	**2.2**	18	1530	0.15		47,425
Q3 2016	**101**	**91**		**15.9**	**342**	**42**			**671**		**0.24**	**30,865**	

Table 7

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	Cumulative Groundwater Recovery
				(in. Hg)	(scfm)	(ppm-v)	(mg/m^3)	(lbs/day)	(lbs)	(lbs)	(gpm)	(gal)	(gal)
October 5, 2016	5	4.9	4173	16.9	360	13.2	<53	3.8	19	1549	0.18	4,062	48,699
October 20, 2016	15	13.8	4505	17.2	340	16.9	-	4.6	64	1612	0.14		51,487
November 3, 2016	14	13.0	4817	16.8	360	17.6	29	**0.9**	12	1625	0.13	4,897	53,850
November 22, 2016	19	19.0	5273	17.2	365	28.9	-	8.5	161	1785	0.09		56,384
December 7, 2016	15	14.8	5627	16.6	370	31.6	<53	9.4	138	1923	0.07	2,753	57,895
December 22, 2016	15	9.1	5845	16.6	345	42.7	-	11.8	107	2031	0.09		59,137
Q4 2016	**83**	**75**		**16.9**	**357**	**25**			**500**		**0.11**	**11,712**	
January 9, 2017	18	17.2	6257	17.0	350	31.0	<53	8.7	149	2180	0.13	8,266	62,275
January 30, 2017	21	20.4	6747	16.2	360	31.6	-	9.1	186	2366	0.17		67,403
February 6, 2017	7	6.9	6913	15.9	370	32.0	<53	9.5	66	2432	0.13	2,619	68,680
February 22, 2017	16	15.9	7295	15.9	380	17.7	-	5.4	86	2517	0.06		70,022
March 7, 2017	13	12.1	7585	15.7	360	33.3	<53	9.6	116	2633	0.07	3,230	71,195
March 29, 2017	22	21.8	8107	15.9	350	13.4	-	3.8	82	2715	0.07		73,252
Q1 2017	**97**	**94**		**16.1**	**362**	**27**			**685**		**0.10**	**14,115**	
April 10, 2017	12	5.5	8240	14.2	370	10.4	140	**4.7**	26	2741	0.08	1,351	73,890
April 18, 2017	8	2.9	8310	14.1	370	14.6	-	4.3	13	2754	0.17		74,603
May 2, 2017	14	14.0	8645	14.2	370	11.3	22.4	3.4	47	2800	0.07	2,673	75,985
May 18, 2017	16	16.0	9030	16.0	325	2.0	-	0.5	8	2809	0.06		77,276
June 7, 2017	14*	5.7	9167	15.3	360	27.4	35.3	7.9	45	2854	0.24	4,594	79,285
June 22, 2017	15	12.1	9457	14.8	375	4.2	-	1.3	15	2869	0.15		81,870
Q2 2017	**79**	**56**		**14.8**	**362**	**12**			**154**		**0.11**	**8,618**	
July 6, 2017	14	9.1	9675	13.25	400	17.3	34.5	**1.2**	11	2880	0.13	4,696	83,603
July 19, 2017	13	11.9	9960	15.9	275	9.6	-	2.1	25	2905	0.11		85,484
July 28, 2017	9	3.6	10047	16.0	275	NR	-	2.1	8	2913	0.21		86,566
August-17	System Off												
September-17	System Off												
Q3 2017	**36**	**25**		**15.1**	**317**	**13**			**44**		**0.13**	**4,696**	

Table 7

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	Cumulative Groundwater Recovery
				(in. Hg)	(scfm)	(ppm-v)	(mg/m^3)	(lbs/day)	(lbs)	(lbs)	(gpm)	(gal)	(gal)
October-17	System Off												
November-17	System Off												
December-17	System Off												
Q4 2017	**System Off**												
January-18	System Off												
February-18	System Off												
March-18	System Off												
Q1 2018	**System Off**												
April-18	System Off												
May-18	System Off												
June-18	System Off												
Q2 2018	**System Off**												
July-18	System Off												
August-18	System Off												
September 21, 2018	-	-	10083	19.0	190	-	-	**10.1**	-	-	-	4335	86,781
September 25, 2018	4	0.1	10085	18.0	250	22.4	590	**13.3**	1.3	2914	20.73		89,268
September 27, 2018	2	0.4	10095	17.0	300	-	-	**15.9**	6.4	2921	2.72		90,901
Q3 2018	**6**	**1**		**18.0**	**247**	**22**			**7.7**		**6.02**	**4,335**	
October 2, 2018	5	1.3	10126	17.0	310	24.6	-	6.1	8	2929	2.68	31699	95,891
October 24, 2018	22	5.5	10258	15.5	350	3.1	-	0.9	5	2933	3.37		122,600
November 1, 2018	8	5.9	10399	15.8	350	1.5	-	0.4	2	2936	3.22	109287	149,844
November 28, 2018	27	14.0	10734	17.0	300	2.2	-	0.5	7	2943	4.08		231,887
December 11, 2018	13	6.0	10879	17.0	315	2.8	-	0.7	4	2948	5.44	101737	279,230
December 27, 2018	16	8.2	11076	17.1	330	-	-	0.7	6	2954	4.60		333,624
Q4 2018	**91**	**41**		**16.6**	**326**	**7**			**32.9**		**4.12**	**242,723**	

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
NR - not recorded

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.

* The remediation system was shut for 6 days prior to and during the groundwater sampling event.

Table 7

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	Cumulative Groundwater Recovery
				(in. Hg)	(scfm)	(ppm-v)	(mg/m^3)	(lbs/day)	(lbs)	(lbs)	(gpm)	(gal)	(gal)

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) / 1 million 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, 0.0022 lb/g, 28.3 L/ft^3

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 6

MA EXTRACTABLE PETROLEUM HYDROCARBON ANALYTICAL DATA SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

Well ID	Date	Acenaphthene (µg/L)	Acenaphthylene (µg/L)	Anthracene (µg/L)	Benzo(a)anthracene (µg/L)	Benzo(a)pyrene (µg/L)	Benzo(b)fluoranthene (µg/L)	Benzo(g,h,i)perylene (µg/L)	Benzo(k)fluoranthene (µg/L)	Chrysene (µg/L)	Dibenzo(a,h)anthracene (µg/L)	Fluoranthene (µg/L)	Fluorene (µg/L)	Indeno(1,2,3-cd)pyrene (µg/L)	2-Methylnaphthalene (µg/L)	Naphthalene (µg/L)	Phenanthrene (µg/L)	Pyrene (µg/L)	C11-C22 Aromatics (Unadj.) (µg/L)	C9-C18 Aliphatics (µg/L)	C19-C36 Aliphatics (µg/L)
MW-01S	08/28/2017	<0.83	<0.89	<.096	<0.83	<1.4	<0.88	<2.0	<0.82	<0.81	<2.0	<0.86	<1.5	<2.0	<2.0	<2.0	<0.88	<2.0	391	<50	<50
MW/RW-05	02/22/2018	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	200	322	243
MW-08S	08/29/2017	2.9	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	2.9	<1.5	<0.67	<0.66	1.2	<0.61	850	471	269
MW-08S	02/20/2018	<0.72	5.4	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	3.8 J	<1.5	2.3 J	9.5	<0.60	<0.61	1,020	1,150	429
MW/RW-10S	08/29/2017	4.60	<0.89	<0.96	<0.83	<1.4	<0.88	<2.0	<0.83	<0.81	<2.0	<0.86	<1.5	<2.0	<2.0	<2.0	1.4	2.4	1,740	1,540	716
MW/RW-10S	02/22/2018	12.00	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	1.6 J	2.9 J	<4.0	<4.0	2,220	3,570	1,520
MW-25S	08/31/2017	3.4	3.9	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	0.8	1.7	1,290	674	302
MW-25S	01/18/2018	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	2.1 J	<0.72	<1.5	0.86 J	2.1 J	<0.60	<0.61	542	247	<50
MW-25S	02/21/2018	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	1.0 J	<1.5	2.4 J	2.0 J	<0.60	1.6	856	776	411
MW-51S	08/29/2017	<0.83	2.6	<0.96	<0.83	<1.4	<0.88	<2.0	<0.82	<0.81	<2.0	<0.86	<1.5	<2.0	<2.0	<2.0	<0.88	<2.0	498	69	<50
MW-51S	01/18/2018	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	<0.60	<0.61	<50	<50	<50
MW-51S	02/22/2018	5.1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	624	335	199
MW/RW-72S	08/30/2017	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	1.2	<0.72	<1.5	<0.67	<0.66	2.2	0.7	1,710	1,900	1,340
MW/RW-72S	02/21/2018	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	<0.60	<0.61	1,150	1,340	1,060
MW-121	08/29/2017	<0.72	1.6	3.1	<0.37	<0.68	0.4	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	2.2	0.7	1,840	3,830	864
MW-121	02/22/2018	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	1.3 J	<4.0	<4.0	<4.0	<4.0	1.0 J	747	1,810	442
MW/RW-123S	08/29/2017	<0.83	<0.89	<0.96	<0.83	<1.4	<0.88	<2.0	<0.82	<0.81	<2.0	<0.86	<1.5	<2.0	<2.0	<2.0	<0.88	<2.0	292	<50	<50
TW-05	02/21/2018	<0.72	<0.76	<0.52	<0.37	1.8 J	3.3 J	1.6 J	1.8 J	<0.37	<2.2	<0.52	186	1.7 J	200	468	<0.60	<0.61	58,800	100,000	21,900
TW-05	06/26/2018	161.0	146.0	<3.9	<3.9	<3.9	<3.9	<3.9	4.8	<3.9	<3.9	<3.9	387	<3.9	514	1040	<3.9	<3.9	121,000	192,000	50,200
TW-06	02/21/2018	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	2.4 J	<1.5	3.1 J	9.8	<0.60	<0.61	494	294	<50
TW-07	02/21/2018	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	<0.60	<0.61	<50	<50	<50
RW-1	08/29/2017	<0.72	3.9	4.7	0.5	<0.68	0.6	<0.45	<0.57	<0.37	<2.2	2.3	1.6	<1.5	<0.67	<0.66	4.0	2.5	3,830	7,170	1,850
RW-1	02/22/2018	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	2.4 J	<4.0	2.5 J	1.6 J	1.3 J	1.5 J	941	1,830	549
RW-05S	08/29/2017	3.5	2.2	<0.96	<0.83	<1.4	<0.88	<2.0	<0.82	<0.81	<2.0	<0.86	4.8	<2.0	<2.0	<2.0	1.8	<2.0	<50	532	298
RW-05S	02/22/2018	14.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	1.1 J	5.3	3.1 J	1.3 J	1,940	1,100	288
RW-28S	08/31/2017	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	<0.60	<0.61	450	477	279
RW-116S	08/31/2017	<0.72	<0.76	1.5	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	1.1	0.9	1,150	1,400	624
RW-116S	02/22/2018	5.1	1.1 J	3.4 J	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	8.7	<4.0	<4.0	<4.0	3.3 J	3.1 J	1,360	<100	<100
RW-117S	08/31/2017	2.5	0.98	0.92	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	1.3	1.4	1,620	1,180	570
RW-118S	08/29/2017	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	<0.60	0.72	996	936	463
RW-119S	08/28/2017	<0.83	<0.89	<0.96	<0.83	<1.4	<0.88	<2.0	<0.82	<0.81	<2.0	<0.86	<1.5	<2.0	<2.0	<2.0	<0.88	<2.0	285	<50	<50
RW-119S	02/20/2018	<0.72	<0.76	<0.52	<0.37	<0.68	<0.39	<0.45	<0.57	<0.37	<2.2	<0.52	<0.72	<1.5	<0.67	<0.66	<0.60	<0.61	<50	<50	<50

Notes:

- = No data available
<# = Result less than the method detection limit (#), i.e. non-detect
µg/L = Micrograms per liter
J = Detected between the Method Detection Limit and the Reporting Limit; therefore, the result is an

Table 8

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		RW-14	
				(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	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	3.3	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	0.0		
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**		
July 12, 2016	21	21.0	2,380	2.2	90,967	375,524	621,945	15.8	3,046,598	25	1,501,331	14	2,963,874	23	163,265	0.8		
July 21, 2016	9	8.8	2,591	2.0		401,085	965,118	27.1	3,336,362	23	1,703,585	16	3,245,984	22	172,720	0.7		
August 4, 2016	14	14.0	2,927	2.0	66,632	441,884	1,504,724	26.8	3,784,552	22	2,035,460	16	3,692,700	22	188,936	0.8	188,936	-
August 15, 2016	11	8.0	3,118	2.2		466,850	1,780,380	24.1	3,986,072	18	2,200,705	14	3,916,870	20			274,167	7.4
August 17, 2016	2	0.2	3,123	2.9		467,717	1,784,800	14.7	3,991,637	19	2,204,352	12	3,922,639	19			276,953	9.3
September 1, 2016	15	12.3	3,418	1.8	97,504	499,541	2,110,116	18.4	4,141,750	8	2,252,093	3	4,205,454	16			456,696	10.2
September 22, 2016	21	21.0	3,921	1.6		547,172	2,402,720	9.7	4,809,103	22	2,252,895	0	4,833,693	21			700,754	8.1
September 30, 2016	8	7.8	4,108	1.6		565,221	2,404,744	0.2	-	-	2,253,087	0	-				-	-
Q3 2016	**101**	**93**		**1.9**	**255,103**		**2,261,024**	**16.9**	**2,509,846**	**20**	**1,177,905**	**9**	**2,574,643**	**21**	**51,164**	**1**	**511,818**	**9**
October 5, 2016	5	4.9	4,226	2.5	62,337	583,206	2,406,092	0.2	4,985,425	10	2,380,012	18	5,204,070	20			897,581	11
October 20, 2016	15	13.8	4,558	2.2		627,558	2,410,677	0.2	5,430,437	22	2,759,561	19	5,620,685	21			1,074,660	9
November 3, 2016	14	13.0	4,870	2.0	74,361	665,013	2,414,200	0.2	5,830,392	21	3,089,438	18	5,999,578	20			1,245,397	9
November 22, 2016	19	19.0	5,326	1.3		701,919	2,421,950	0.3	6,450,887	23	3,309,768	8	6,423,209	15			1,401,129	6
December 7, 2016	15	14.6	5,677	1.7	55,598	738,594	2,445,294	1.1	6,928,011	23	3,587,633	13	6,740,188	15			1,656,410	12
December 22, 2016	15	9.3	5,900	1.4		757,517	2,478,549	2.5	7,242,904	24	3,696,939	8	6,946,164	15			1,690,554	3
Q4 2016	**83**	**75**		**1.8**	**192,296**		**73,805**	**0.7**	**2,433,801**	**23**	**1,443,852**	**13**	**2,112,471**	**20**	**0**	**0**	**989,800**	**9**

Table 8

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		RW-14	
				(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	Cumulative Pump Cycles	Cycles per Minute
January 9, 2017	18	17.2	6,312	1.1	27,603	784,463	2,494,287	0.6	7,829,388	24	3,815,194	5	7,211,328	11			1,853,106	7
January 19, 2017	10	0.7	6,328	0.7		785,120	2,494,860	0.6	7,851,610	23	3,828,163	14	7,230,971	20			1,856,756	4
February 6, 2017	18	6.7	6,489	1.7	45,008	801,393	2,495,498	0.1	8,070,030	23	3,933,692	11	7,421,271	20			1,884,884	3
February 22, 2017	16	15.9	6,871	1.3		830,128	2,496,043	0.02	8,623,835	24	4,141,969	9	7,558,931	6			2,114,207	10
March 7, 2017	13	12.1	7,161	1.3	63,709	851,954	2,496,525	0.03	9,020,300	23	4,241,925	6	7,838,994	16			2,219,822	6
March 29, 2017	22	21.9	7,686	1.3		893,837	2,506,402	0.3	9,393,785	12	4,746,021	16	8,681,479	27			2,286,621	2
Q1 2017	**97**	**74**		**1.3**	**136,320**		**27,853**	**0.3**	**2,150,881**	**20**	**1,049,082**	**10**	**1,735,315**	**16**	**0**	**0**	**596,067**	**6**
April 10, 2017	12	11.7	7,967	1.4	33,068	918,041	2,514,214	0.5	10,125,850	43	4,947,186	12	9,556,777	52			2,438,043	9
April 18, 2017	8	4.2	8,067	1.5		926,905	2,523,654	1.6	10,260,855	23	5,041,960	16	9,659,267	17			2,452,180	2
May 2, 2017	14	13.5	8,390	1.5	67,507	955,134	2,558,928	1.8	10,700,135	23	5,358,699	16	9,976,314	16			2,488,966	2
May 18, 2017	16	16.0	8,775	1.7		994,412	2,773,700	9.3	11,201,156	22	5,742,876	17	10,340,804	16			2,912,156	18
June 7, 2017	15*	14.1	9,114	1.5	39,790	1,025,509	2,948,465	8.6	11,639,850	22	6,037,220	14	10,619,527	14			3,425,060	25
June 22, 2017	15	11.6	9,392	0.5		1,034,202	2,948,771	0.0	12,064,871	25	6,114,629	5	10,747,764	8			3,733,091	18
Q2 2017	**80**	**71**		**1.4**	**140,365**		**442,369**	**4.3**	**2,671,086**	**26**	**1,368,608**	**13**	**2,066,285**	**20**	**0**	**0**	**1,446,470**	**14**
July 7, 2017	15	10.5	9,644	0.2	7,329	1,037,554	2,948,828	0.0	12,236,542	11	6,117,984	0.2	10,816,747	5			3,733,091	0
July 19, 2017	12	12.5	9,943	0.2		1,041,531	2,948,856	0.0	12,376,875	8	6,121,005	0.2	10,902,614	5			3,733,091	0
August 9, 2017	21	17.8	10,371	0.2	8,959	1,046,508	2,948,878	0.0	12,602,437	9	6,126,678	0.2	11,037,287	5			3,733,095	0
August 21, 2017	12	11.5	10,646	0.2		1,050,490	2,960,235	0.7	12,798,127	12	6,128,644	0.1	11,140,402	6			3,865,276	8
September 5, 2017	15	3.2	10,723	0.1	7,520	1,051,027	2,963,181	0.6	12,831,995	7	6,129,433	0.2	11,156,633	4			3,895,853	7
September 20, 2017	15	14.8	11,078	0.3		1,058,010	3,099,965	6.4	12,887,393	3	6,141,855	0.6	11,267,437	5			4,115,111	10
Q3 2017	**90**	**70**		**0.2**	**23,808**		**151,194**	**1.5**	**822,522**	**8**	**27,226**	**0.3**	**519,673**	**5**	**0**	**0**	**382,020**	**4**
October 3, 2017	13	12.3	11,372	0.1	13,545	1,060,140	3,518,731	23.7	13,046,133	9	6,144,871	0.2	11,374,255	6			4,124,063	1
October 17, 2017	14	13.8	11,704	0.6		1,071,555	3,531,896	0.7	13,254,085	10	6,158,757	0.7	11,516,361	7			4,190,623	3
November 2, 2017	16	15.4	12,074	1.0	67,496	1,093,414	3,533,318	0.1	13,533,646	13	6,360,635	9	11,697,764	8			4,352,876	7
November 30, 2017	28	28.0	12,747	1.1		1,139,051	3,567,226	0.8	14,053,988	13	6,942,169	14	12,041,703	9			4,667,761	8
December 5, 2017	5	4.9	12,864	1.1	22,392	1,146,659	3,567,280	0.0	14,151,750	14	7,075,109	19	12,103,352	9			4,726,270	8
December 19, 2017	14	13.7	13,192	0.8		1,161,443	3,567,464	0.0	14,384,237	12	7,293,257	11	12,230,206	6			4,856,464	7
Q4 2017	**90**	**88**		**0.8**	**103,433**		**467,499**	**3.7**	**1,496,844**	**12**	**1,151,402**	**9.1**	**962,769**	**8**	**0**	**0**	**741,353**	**6**
January 3, 2018	15	12.7	13,497	0.5	17,623	1,170,138	3,567,719	0.0	14,562,902	10	7,376,972	67.5	12,299,218	4			4,926,260	4
January 26, 2018	23	10.3	13,745	0.6		1,179,066	3,567,863	0.0	14,682,365	8	7,472,814	6.4	12,349,921	3			4,995,038	5
February 1, 2018	6	5.9	13,886	1.3	56,832	1,189,808	3,570,120	0.3	14,760,435	9	7,563,659	11	12,424,651	9			5,041,233	5
February 22, 2018	21	20.8	14,385	1.5		1,235,898	3,570,232	0.0	15,079,952	11	7,919,430	12	12,732,520	10			5,354,633	10
March 6, 2018	12	6.1	14,531	1.8	15,419	1,251,317	3,570,832	0.1	15,223,241	16	7,932,007	1	12,804,732	8			5,494,518	16
March 29, 2018	System Off																	
Q1 2018	**100**	**56**		**1.1**	**89,874**		**3,368**	**0.0**	**839,004**	**10**	**638,750**	**8.0**	**574,526**	**7**	**0**	**0**	**638,054**	**8**

Table 8

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		RW-14	
				(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	Cumulative Pump Cycles	Cycles per Minute
April 11, 2018	System Off																	
April 23, 2018	System Off																	
May 3, 2018	System Off																	
May 24, 2018	System Off																	
June 12, 2018	System Off																	
June 26, 2018	System Off																	
Q2 2018	**System Off**																	
July 3, 2018	System Off																	
July 18, 2018	System Off																	
August 6, 2018	-	-	14,531	-	152,150	1,251,317	3,570,832	-	15,223,241	-			12,804,732	-			5,494,518	-
August 29, 2018	23	14.4	14,876	2.3		1,298,809	3,673,976	5.0	15,224,097	0			13,043,671	12			5,768,404	13
September 4, 2018	6	3.4	14,957	2.6	28,930	1,311,227	3,701,827	5.7	15,224,116	0			13,112,499	14			5,844,857	16
September 21, 2018	17	3.7	15,045	3.1		1,327,739	3,724,471	4.3	15,308,624	16			13,178,706	13			5,918,745	14
Q3 2018	**46**	**21**		**5.9**	**181,080**		**157,191**	**5.1**	**1,156,874**	**38**	**0**	**0.0**	**1,075,354**	**35**	**0**	**0**	**1,192,475**	**39**
October 2, 2018	System Off																	
October 24, 2018	System Off																	
November 1, 2018	System Off																	
November 28, 2018	System Off																	
December 11, 2018	System Off																	
December 27, 2018	System Off																	
Q4 2018	**System Off**																	

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.
* - The remediation system was shut for 6 days prior to and during the groundwater sampling event.

Table 9

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**
July-16	30	30.0	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
August-16	27	22.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
September-16	44	42.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
Q3 2016	**101**	**95**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**
October-16	20	18.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
November-16	33	32.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
December-16	30	24.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0	0
Q4 2016	**83**	**75**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.0**	**0.0**
January-17	39	18.0	0.5	0.5	0.5	0.5	0.5	0.75	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3
February-17	23	22.6	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.5	0.5	0.5	0.5	0.3	0.3	0.3
March-17	35	35.0	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
Q1 2017	**97**	**76**	**0.7**	**0.7**	**0.7**	**0.7**	**0.7**	**0.6**	**0.7**	**0.7**	**0.5**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**
April-17	20	16.4	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
May-17	36*	36.0	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
June-17	23	20.1	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
Q2 2017	**79**	**73**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.3**	**0.8**	**0.8**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**

Table 9

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)
July-17	34	29.0	0.75	0.75	0.75	0.75	0.75	0.3	0.75	0.75	0.5	0.5	0.5	0.5	0.5	0.3	0.3
August-17	30	29.0	OFF								0.5	0.5	0.5	0.5	0.5	0.3	0.3
September-17	26	14.9	0.75	0.75	0.75	0.75	0.75	OFF	0.75	OFF	0.5	0.5	0.5	0.5	0.5	0.3	0.3
Q3 2017	**90**	**73**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**0.3**	**0.8**	**0.8**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**
October-17	27	26.8	0.75	0.75	0.75	0.75	0.75	OFF	0.75	OFF	0.5	0.5	0.5	0.5	0.5	0.3	0.3
November-17	44	41.8	0.75	0.75	0.75	0.75	0.75	OFF	0.75	OFF	0.5	0.5	0.5	0.5	0.5	0.3	0.3
December-17	19	18.5	0.75	0.75	0.75	0.75	0.75	OFF	0.75	OFF	0.5	0.5	0.5	0.5	0.5	0.3	0.3
Q4 2017	**90**	**87**	**0.8**	**0.8**	**0.8**	**0.8**	**0.8**	**OFF**	**0.8**	**OFF**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**
January-18	38	25.0	OFF	0.75	0.75	0.75	0.75	OFF	OFF	OFF	0.5	0.5	0.5	0.5	0.5	0.3	0.3
February-18	27	26.9	OFF	0.75	0.75	0.75	0.75	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
March-18	35	11.0	System Off														
Q1 2018	**100**	**63**	**OFF**	**0.8**	**0.8**	**0.8**	**0.8**	**OFF**	**OFF**	**OFF**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.3**	**0.3**
April-18	32	0.0	System Off														
May-18	31	0.0	System Off														
June-18	30	0.0	System Off														
Q2 2018	**93**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
July-18	31	0.0	System Off														
August-18	23	0.0	System Off														
September-18	17	0.0	System Off														
Q2 2018	**71**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
October-18	31	0.0	System Off														
November-18	23	0.0	System Off														
December-18	17	0.0	System Off														
Q2 2018	**71**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**

Notes:

scfm - standard cubic feet per minute

Table 10

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-16	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-16	4,671	10	0.4	117,175	2.4	2.3	0.41	2.9	6	23	60	624	712	97
May-16	4,121	69	2.4	87,572	2.8	2.0	0.43	21.2	8	25	81	770	884	121
June-16	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**						
July-16	9,218	73	5.6	90,967	23	17.5	0.46	4.4	15	43	85	1303	1446	197
August-16	10,131	83	7.0	66,632	6.7	3.7	0.46	0	22	46	85	1353	1506	206
September-16	11,516	100	9.6	97,504	5.4	4.4	0.46	0	31	51	85	1530	1697	232
Q3 2016			**22.2**			**25.6**		**4.4**						
October-16	4,062	36	1.2	62,337	11	5.7	0.46	0	32	57	85	1612	1787	244
November-16	4,897	68	2.8	74,361	1.2	0.7	0.46	0	35	57	85	1785	1963	268
December-16	2,753	81	1.9	55,598	0.42	0.2	0.46	0	37	57	85	2031	2210	302
Q4 2016			**5.9**			**6.7**		**0**						
January-17	8,266	51	3.5	27,603	0.32	0.1	0.00*	0	41	58	85	2366	2549	348
February-17	2,619	8.3	0.2	45,008	0.46	0.2	0	0	41	58	85	2517	2701	369
March-17	3,230	5	0.1	63,709	0.56	0.3	0	0	41	58	85	2715	2899	396
Q1 2017			**3.8**			**0.5**		**0**						
April-17	1,351	1.3	0.01	33,068	55	15.2	0	0	41	73	85	2754	2953	403
May-17	2,673	25.3	0.6	67,507	31.6	17.8	0	0	41	91	85	2809	3026	413
June-17	4,594	11.8	0.5	39,790	0.83	0.3	0	0	42	91	85	2869	3087	421
Q2 2017			**1.0**			**33.3**		**0**						
July-17	4,696	17.4	0.68	7,329	0.832	0.1	0	0	43	91	85	2913	3132	428
August-17	0	0	0	8,959	0.20	0.0	0	0	43	91	85	2913	3132	428
September-17	0	0	0	7,520	1.59	0.1	0	0	43	91	85	2913	3132	428
Q3 2017			**0.7**			**0.2**		**0**						
October-17	0	0	0	13,545	0.757	0.1	0	0	43	92	85	2913	3132	428
November-17	0	0	0	67,496	0.189	0.1	0	0	43	92	85	2913	3133	428
December-17	0	0	0	22,392	2.49	0.5	0	0	43	92	85	2913	3133	428
Q4 2017			**0**			**0.7**		**0**						

Table 10

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)
January-18	0	0	0	17,623	0.134	0.0	0	0	43	92	85	2913	3133	428
February-18	0	0	0	56,832	0.353	0.2	0	0	43	92	85	2913	3133	428
March-18	0	0	0	15,419	NS	0.05**	0	0	43	92	85	2913	3133	428
Q1 2018			**0**			**0.2**		**0**						
April-18	0	0	0	0	0	0.0	0	0	43	92	85	2913	3133	428
May-18	0	0	0	0	0	0.0	0	0	43	92	85	2913	3133	428
June-18	0	0	0	0	0	0.0	0	0	43	92	85	2913	3133	428
Q2 2018			**0**			**0.0**		**0**						
July-18	0	0	0	0	0	0.0	0	0	43	92	85	2913	3133	428
August-18	0	0	0	152,150	0.960	1.2	0	0	43	94	85	2913	3134	428
September-18	4,335	19	0.69	28,930	0.540	0.1	0	0	43	94	85	2921	3143	429
Q3 2018			**0.7**			**1.3**		**0**						
October-18	31,699	10	3	0	0	0.0	0	0	46	94	85	2933	3158	431
November-18	109,287	NS	9.12**	0	0	0.0	0	0	55	94	85	2943	3177	434
December-18	101,737	NS	8.49**	0	0	0.0	0	0	64	94	85	2954	3196	436
Q4 2018			**20.3**			**0.0**		**0**						

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
ft - feet
NS - not sampled

[1] - LNAPL drum includes LNAPL bailed previously during well gauge and bail events
[2] - Vapor-Phase recovery values are calculated within the Total Phase Extraction Operational Summary Table
* - The LNAPL drum was emptied during an oil/water separator cleaning event.
** - Groundwater was not sampled. The prior month concentration was used for recovery calculations.
Italics - 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

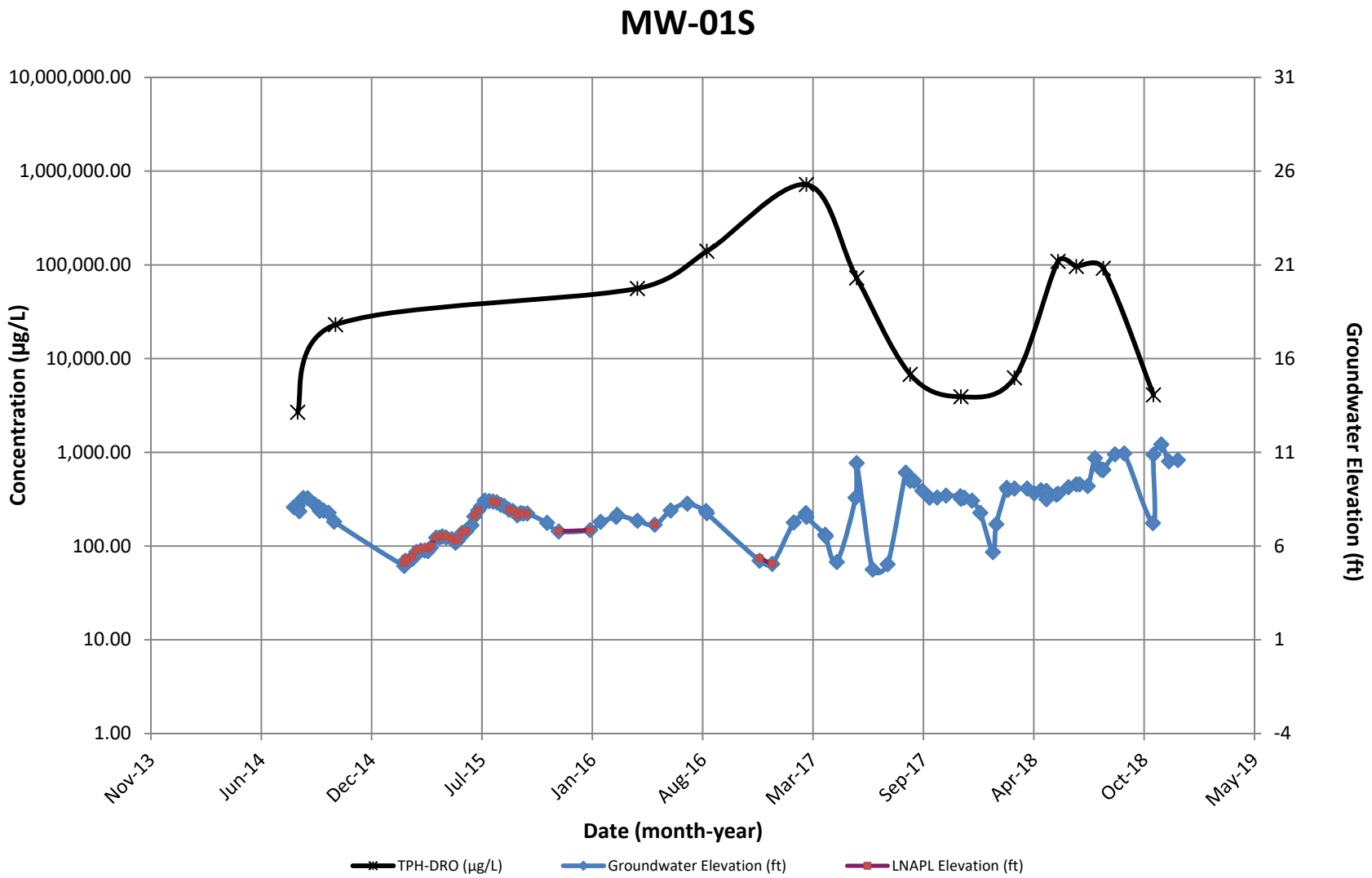
Conversion of recovered hydrocarbons from pounds to gallons:

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

Attachment A – Concentration Trend Graphs

CONCENTRATION TREND GRAPHS

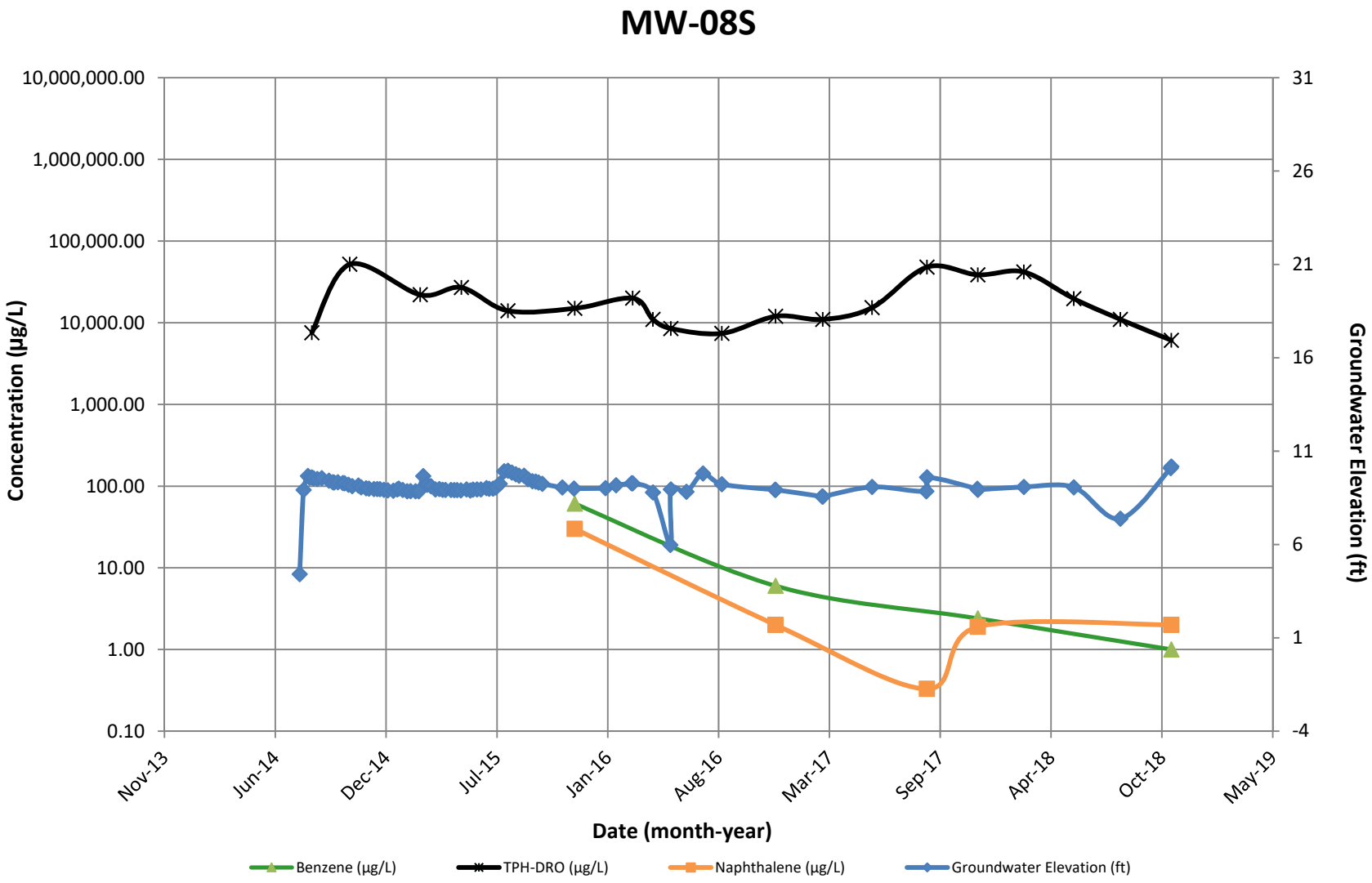
NRG PRGS
1400 North Royal Street
Alexandria, VA



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

CONCENTRATION TREND GRAPHS

NRG PRGS
1400 North Royal Street
Alexandria, VA



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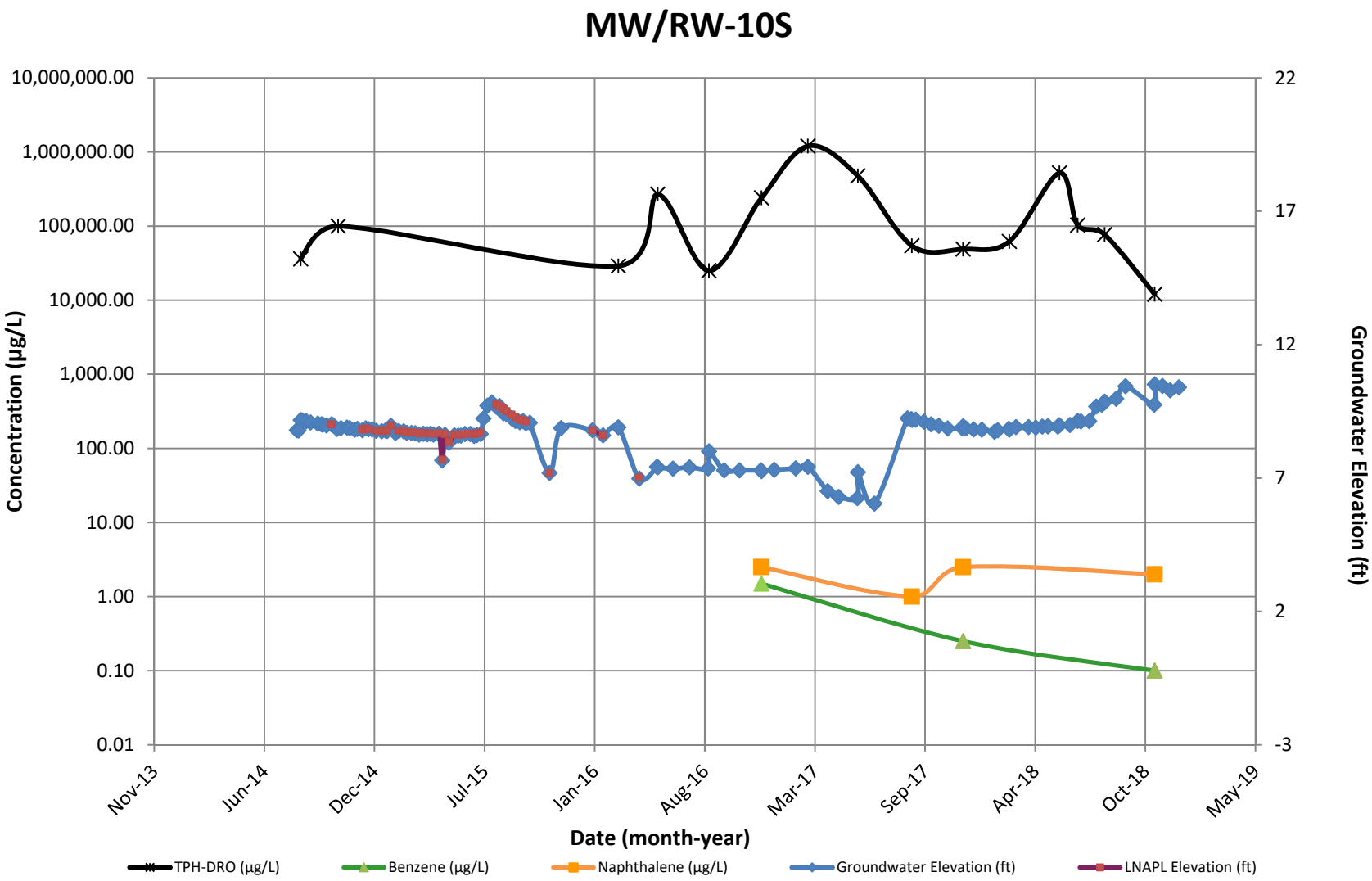
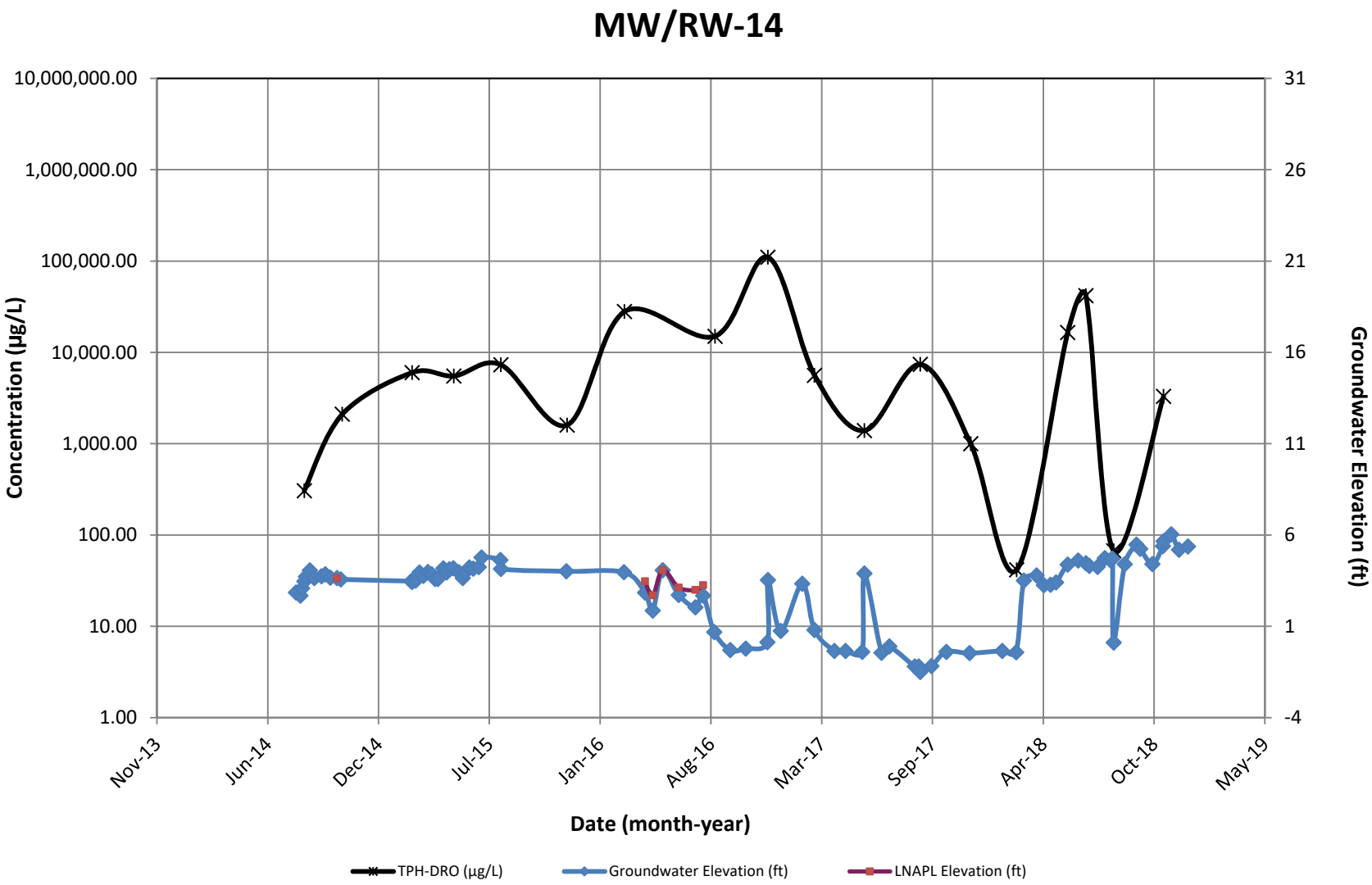
CONCENTRATION TREND GRAPHS

NRG PRGS
1400 North Royal Street
Alexandria, VA



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



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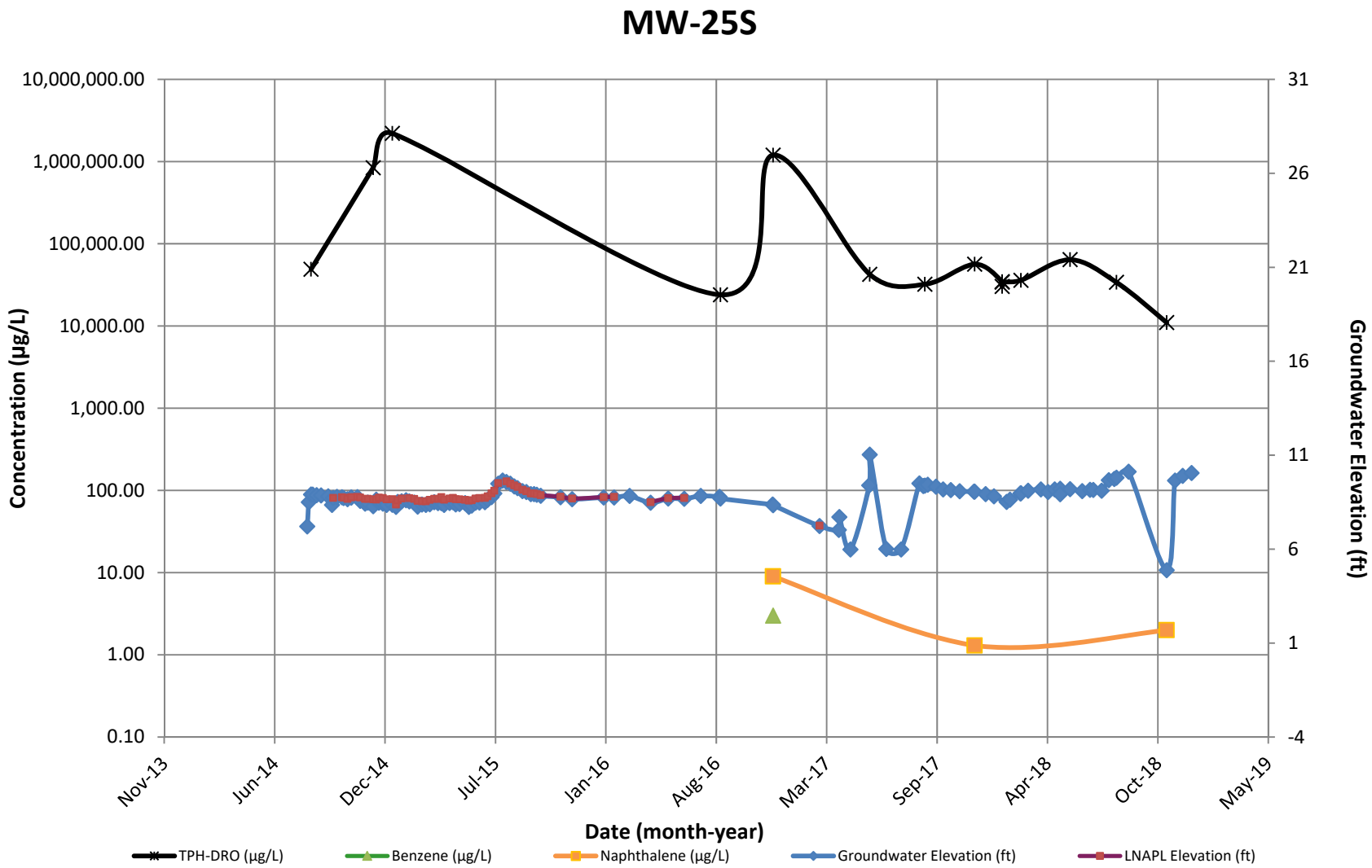
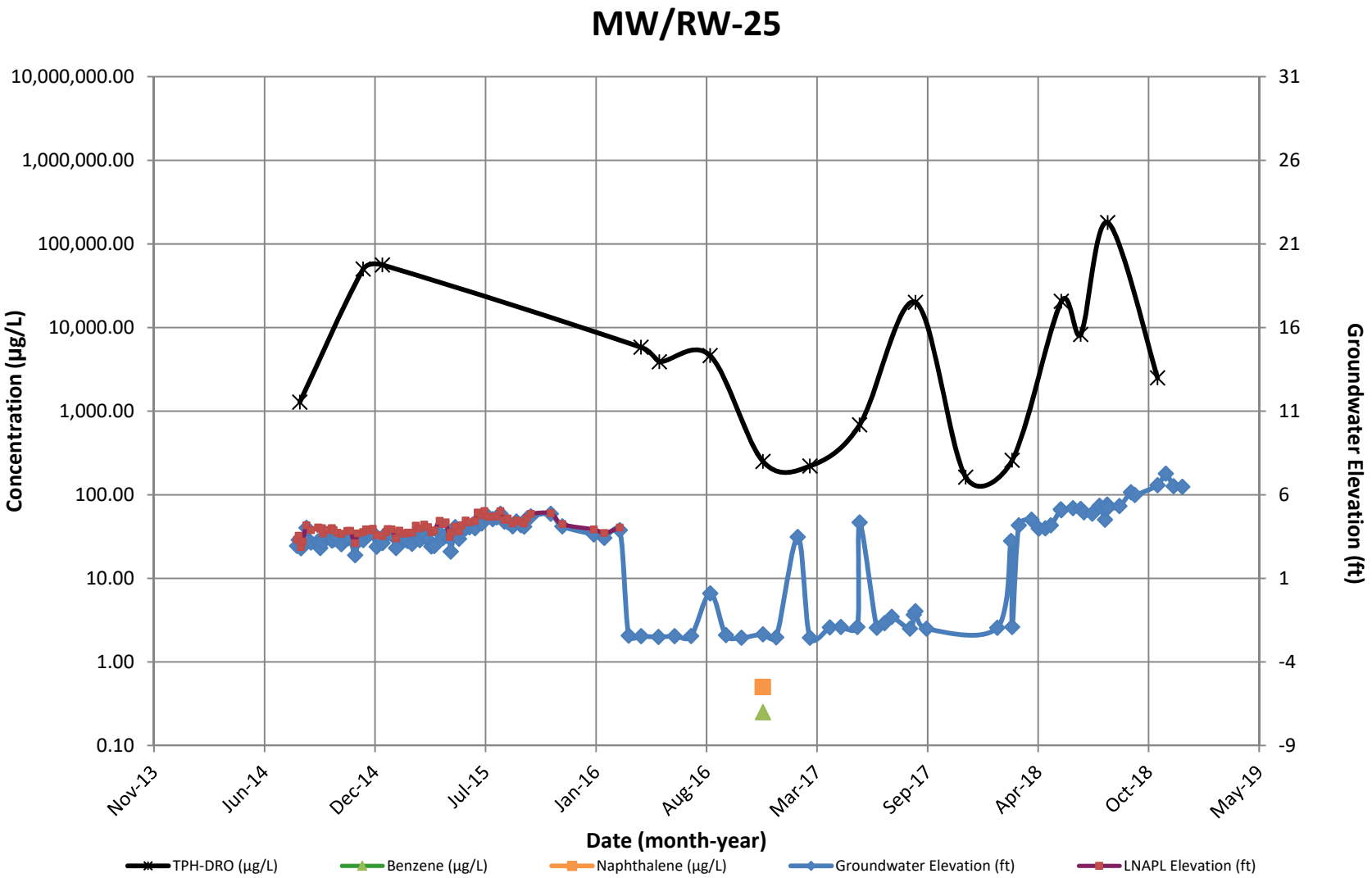
NRG PRGS
1400 North Royal Street
Alexandria, VA

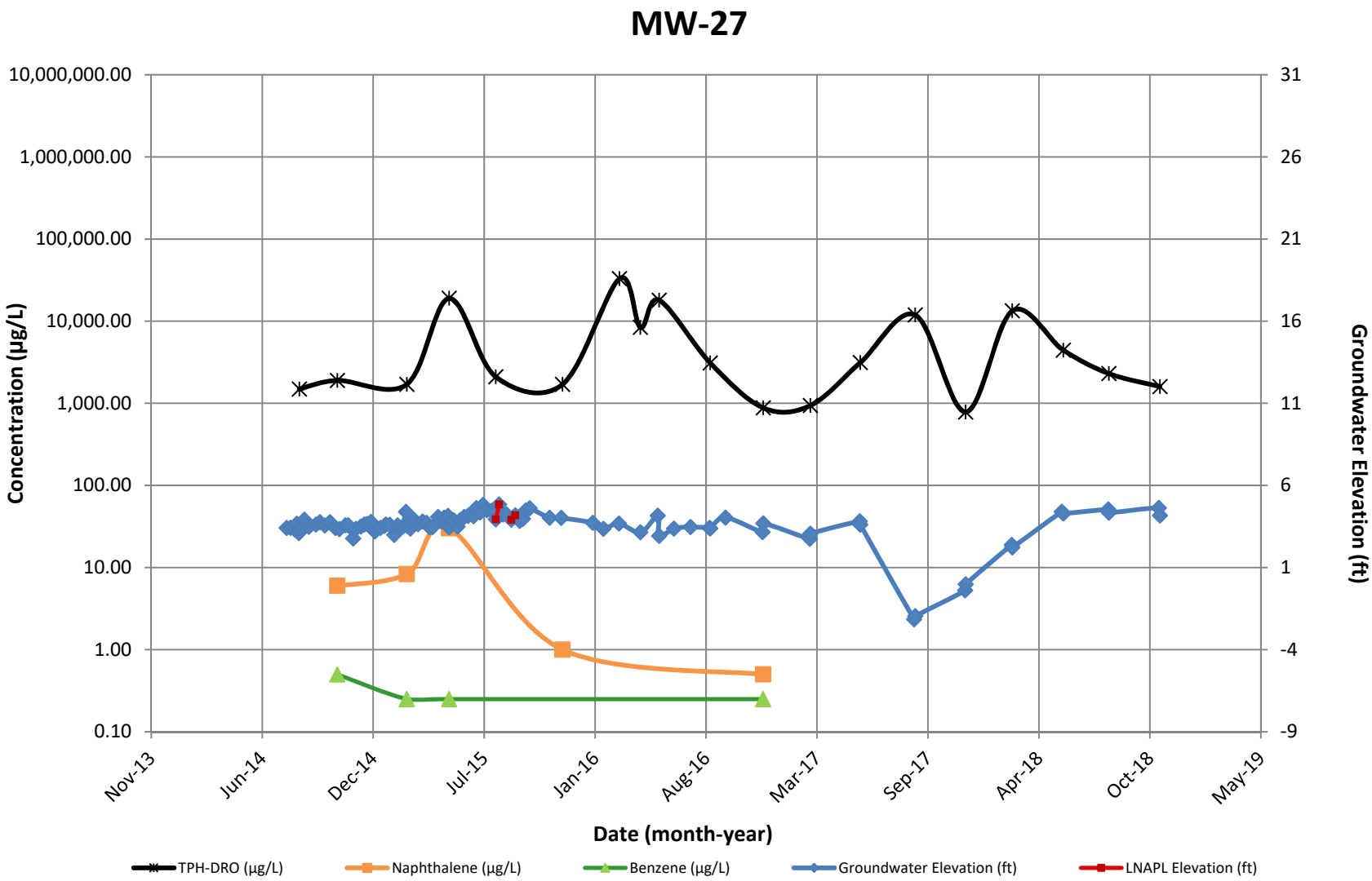


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



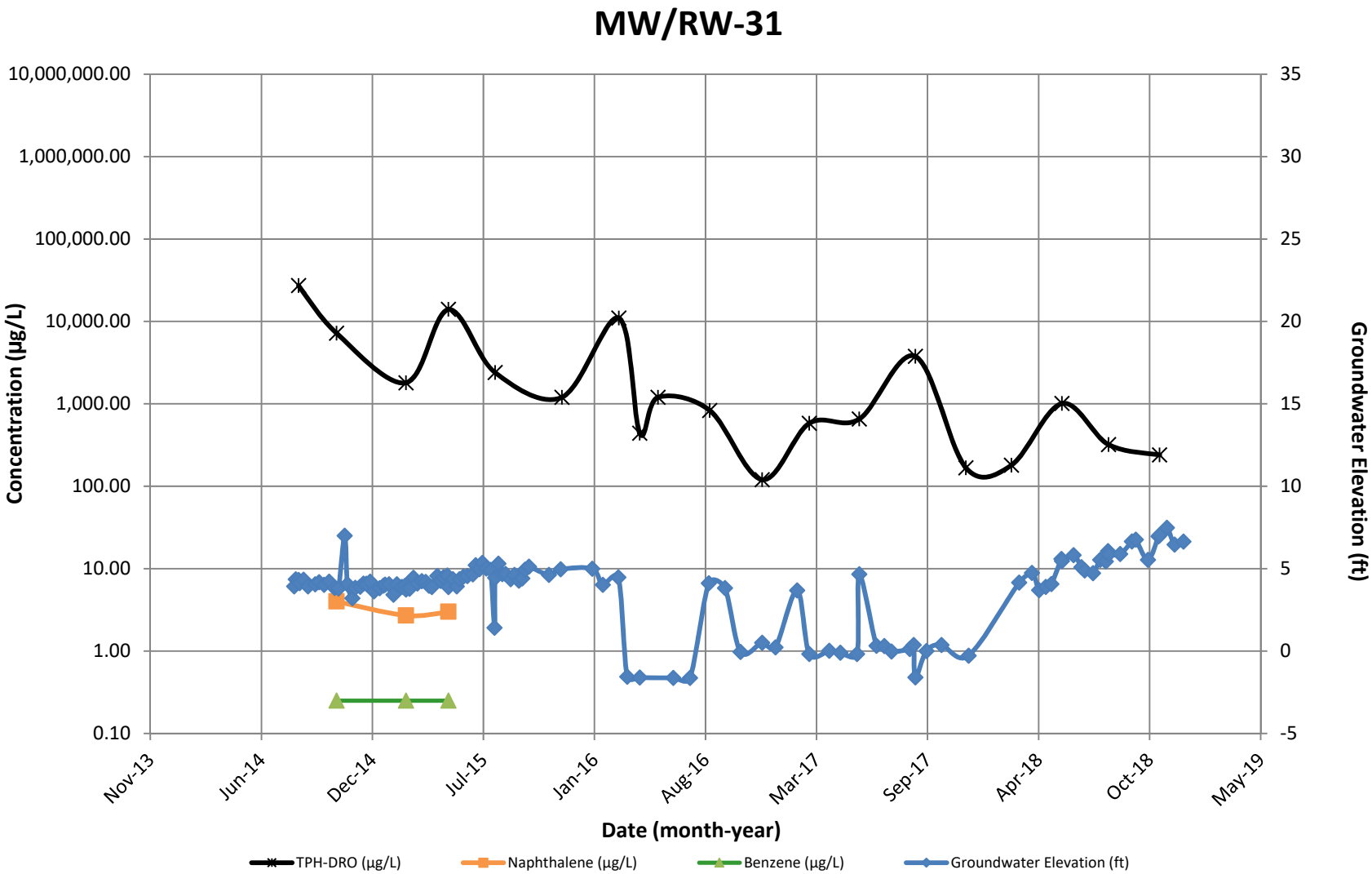
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

NRG PRGS
1400 North Royal Street
Alexandria, VA

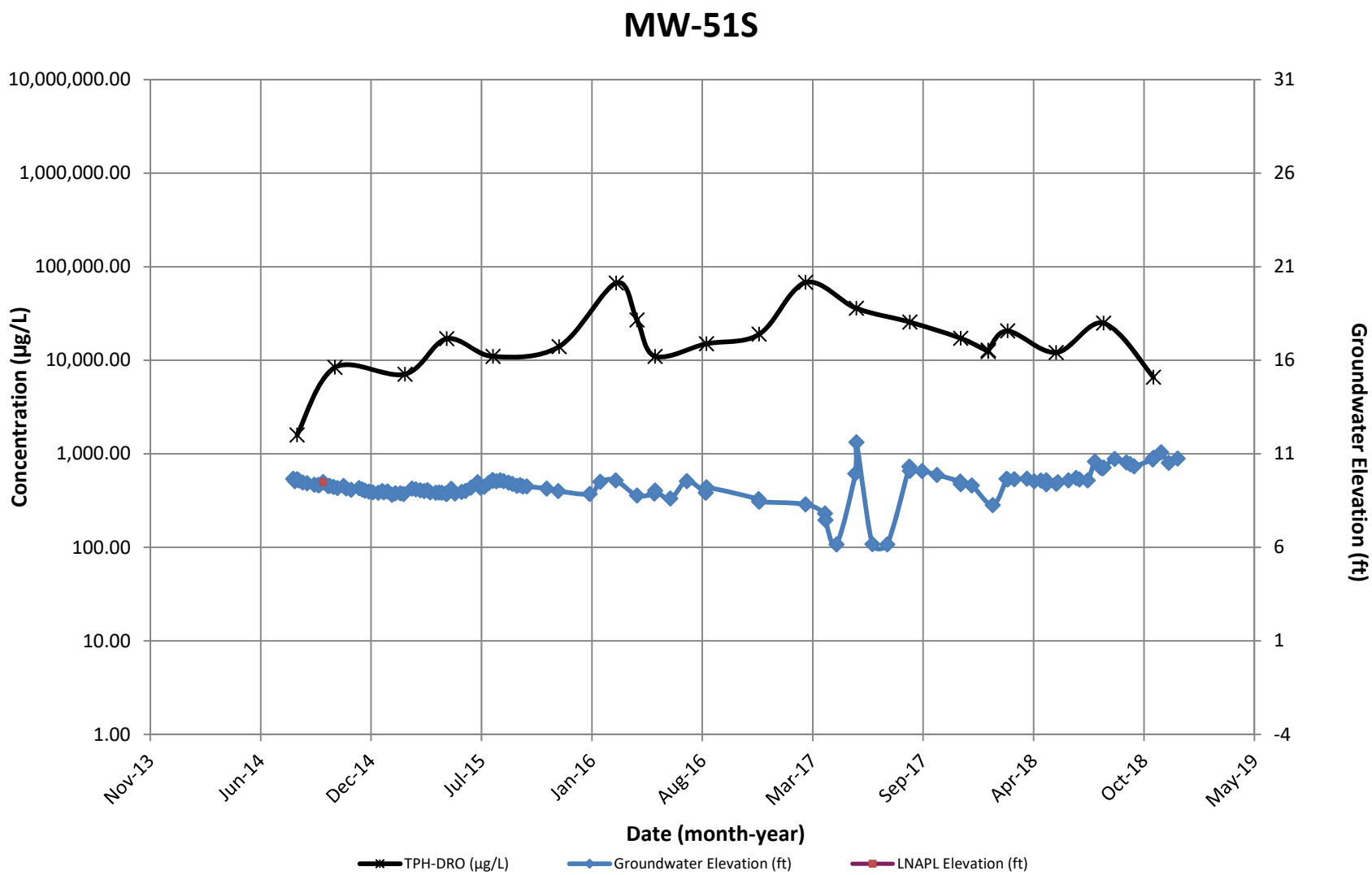


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

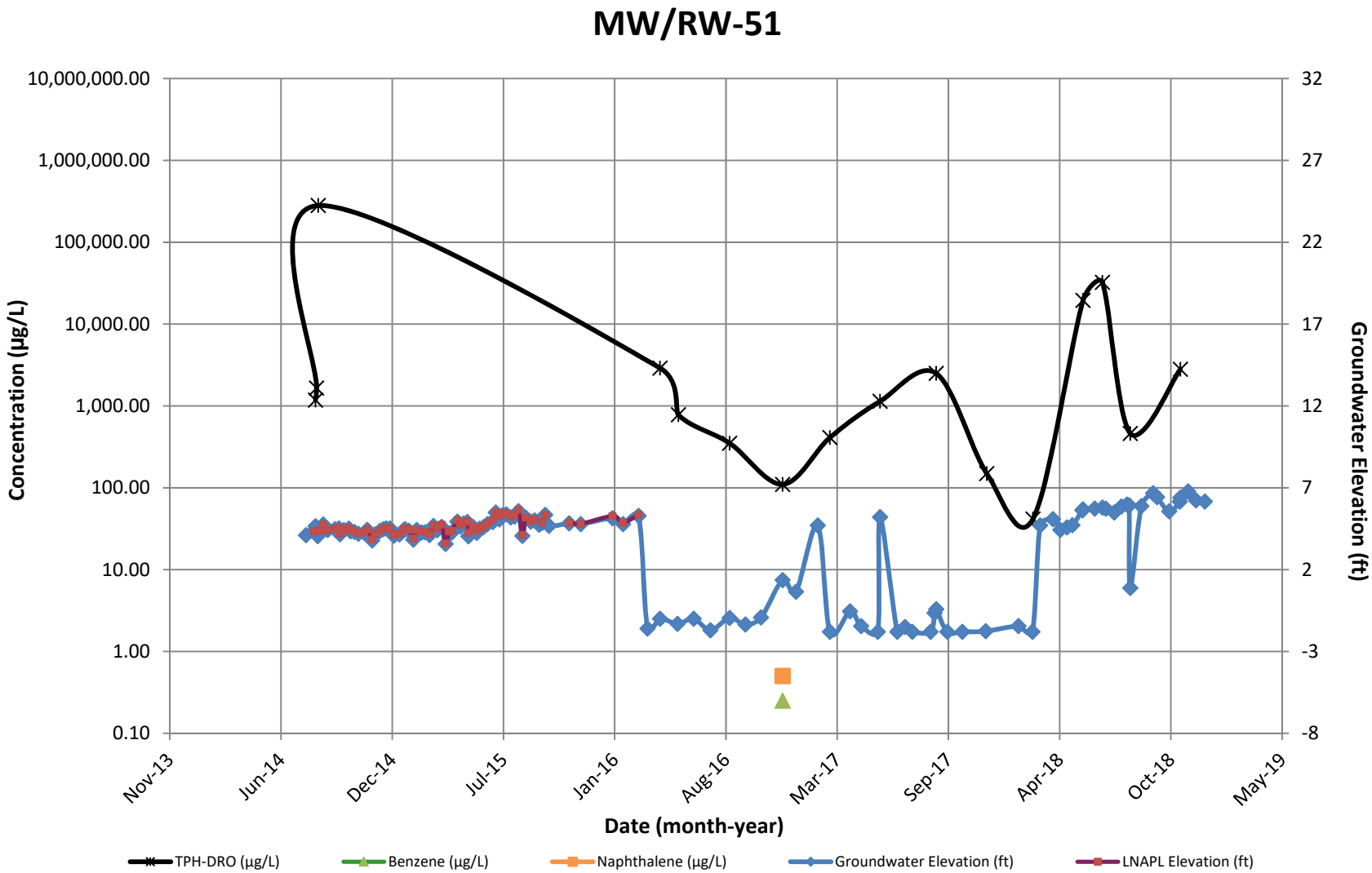
NRG PRGS
1400 North Royal Street
Alexandria, VA



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

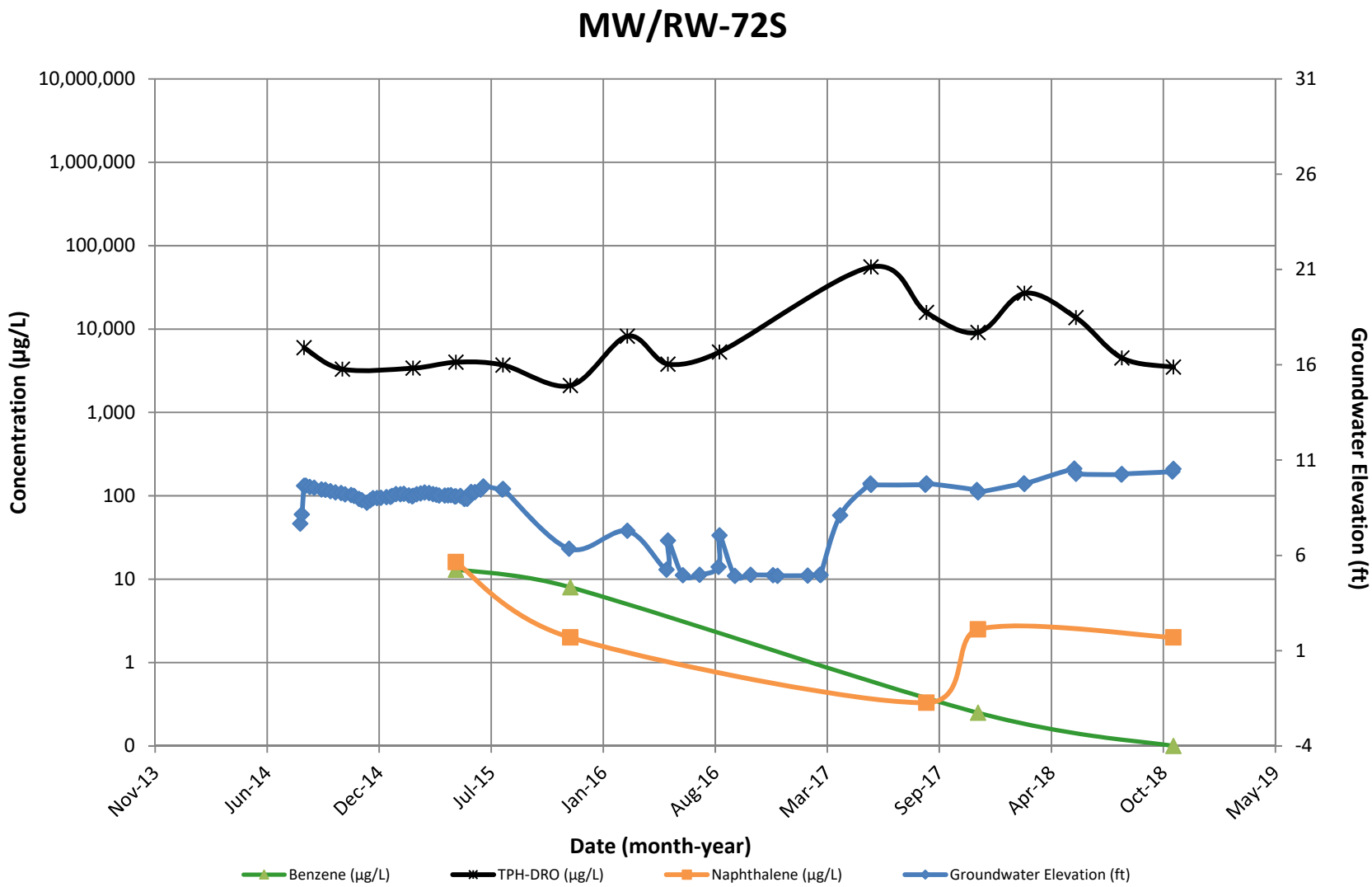


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

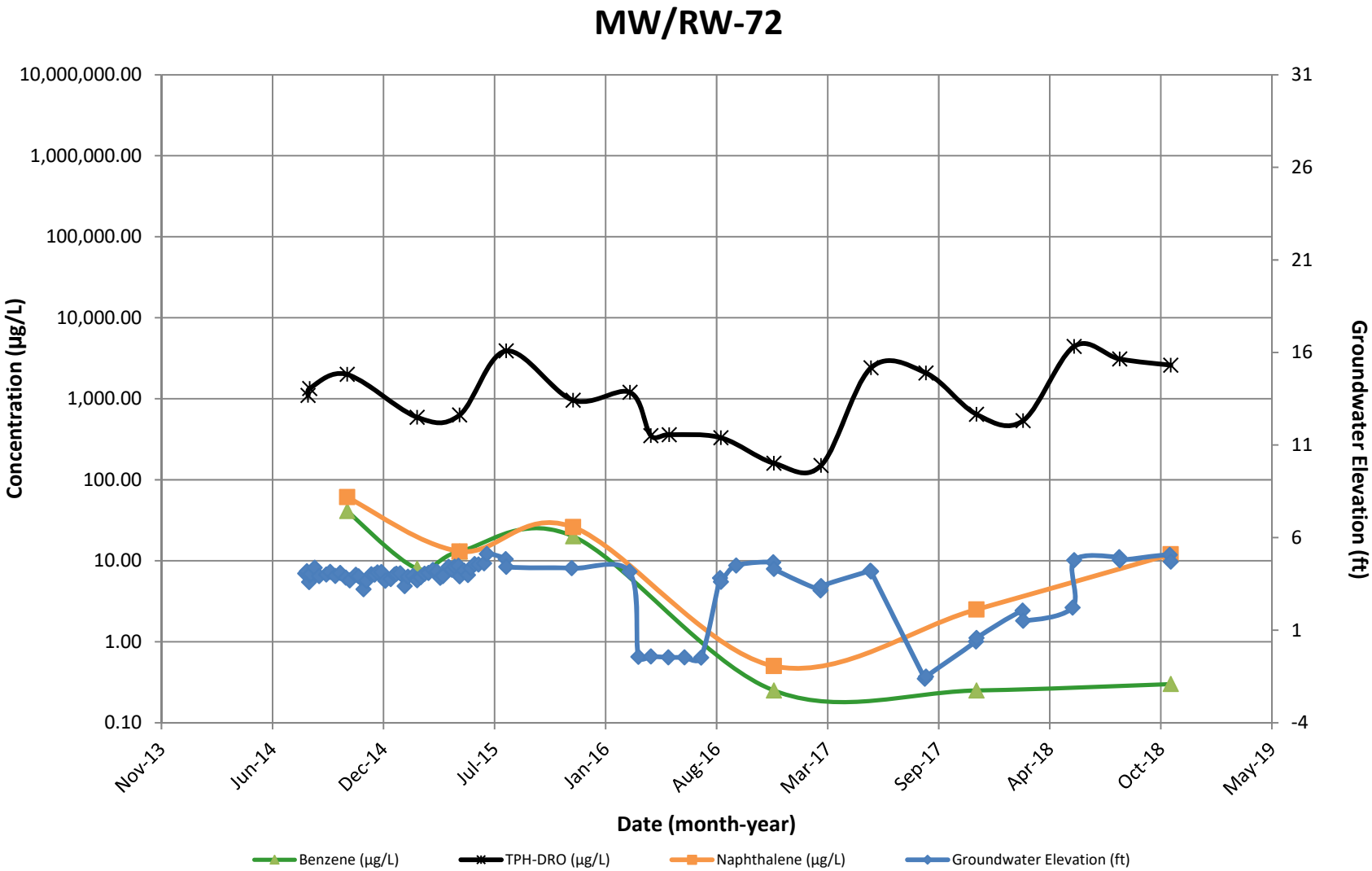


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

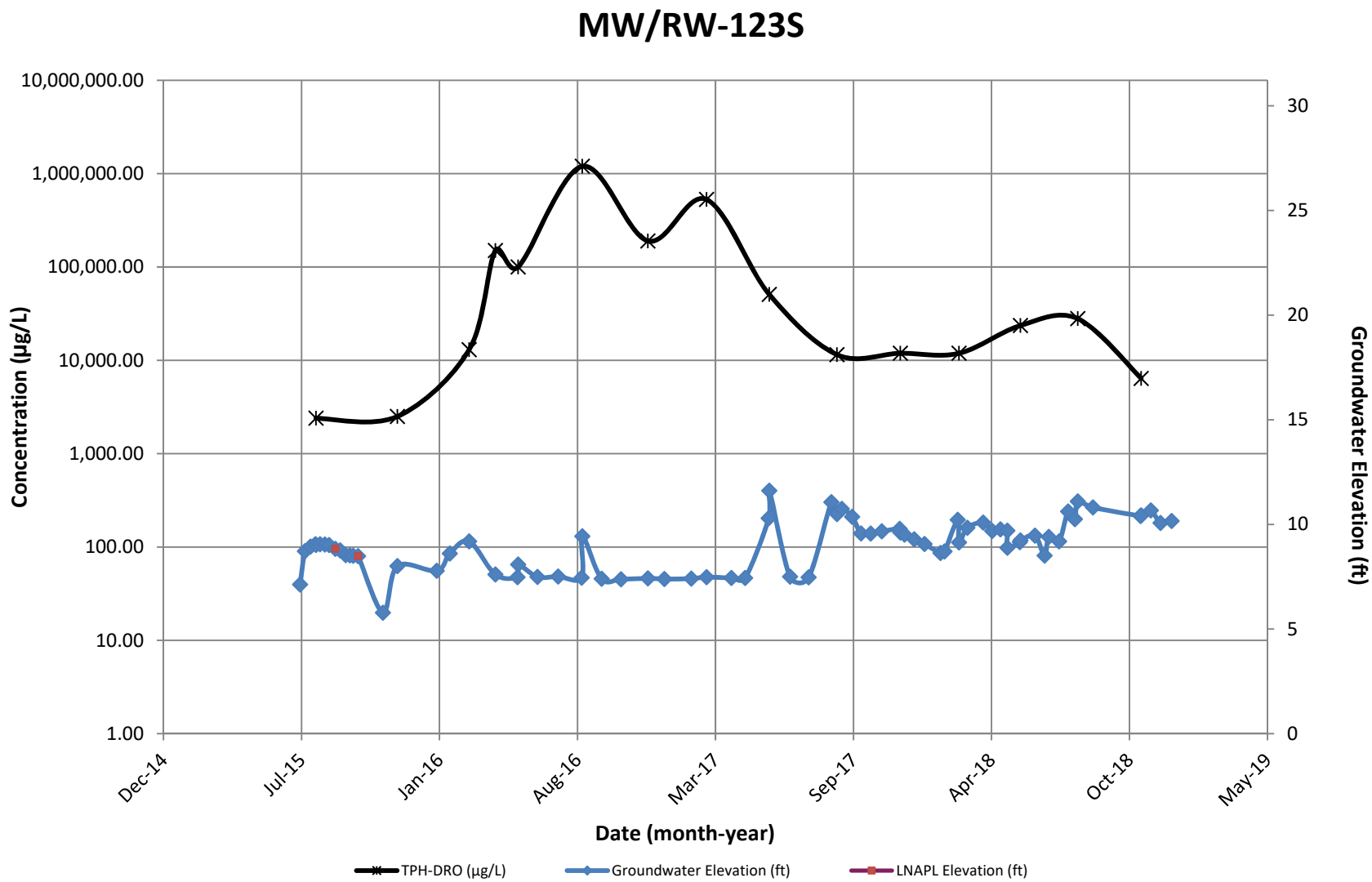
NRG PRGS
1400 North Royal Street
Alexandria, VA



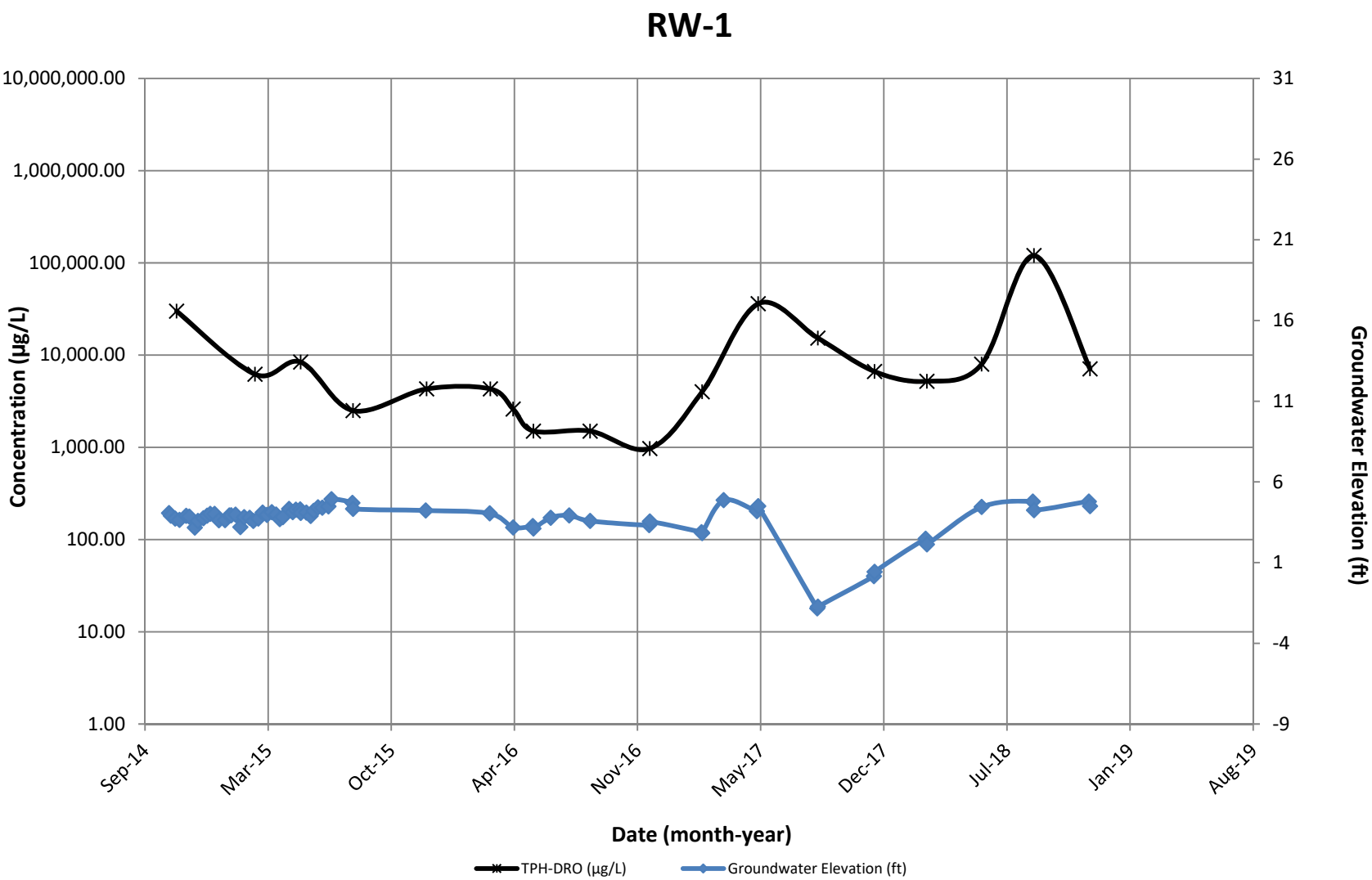
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



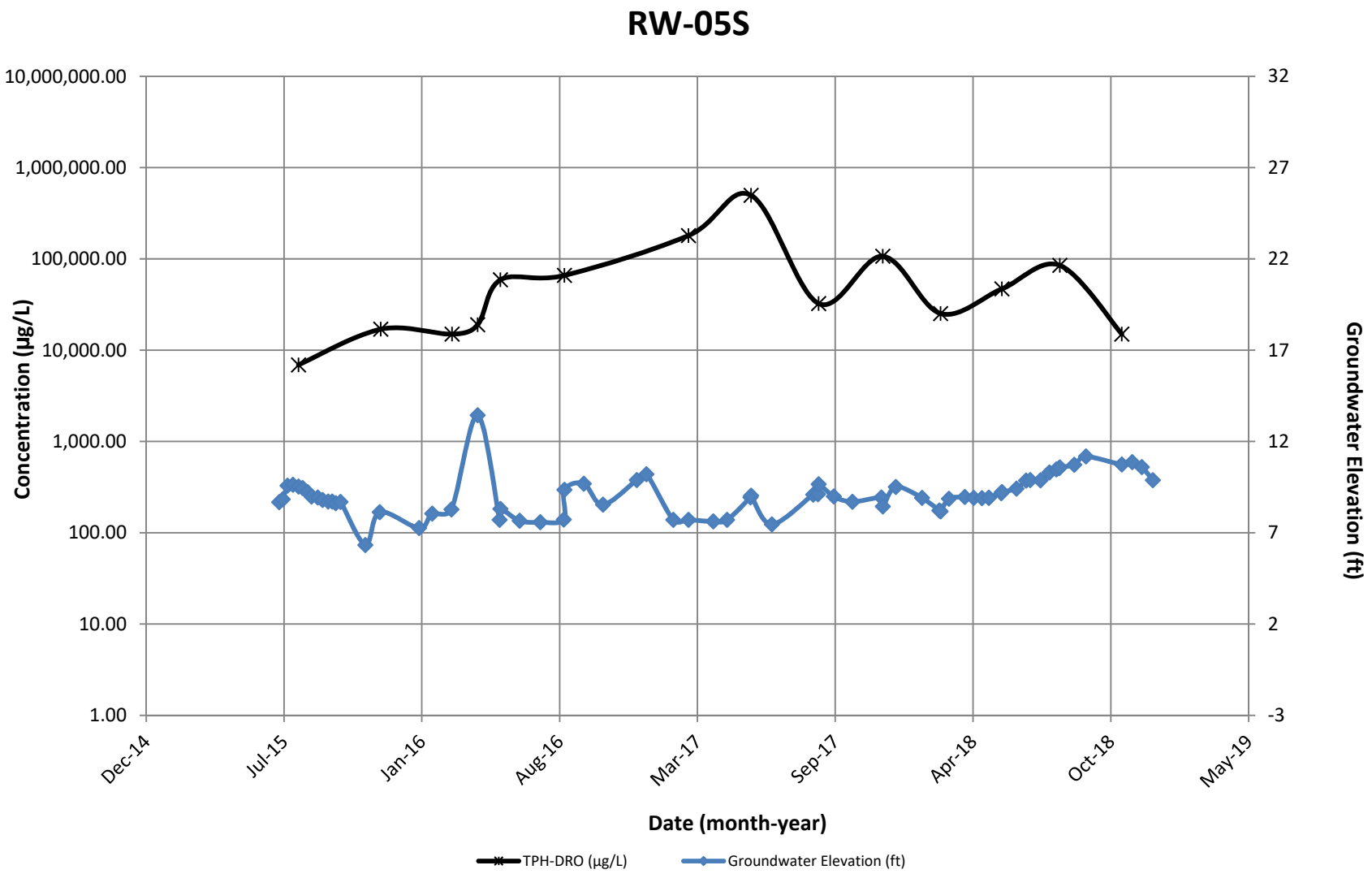
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



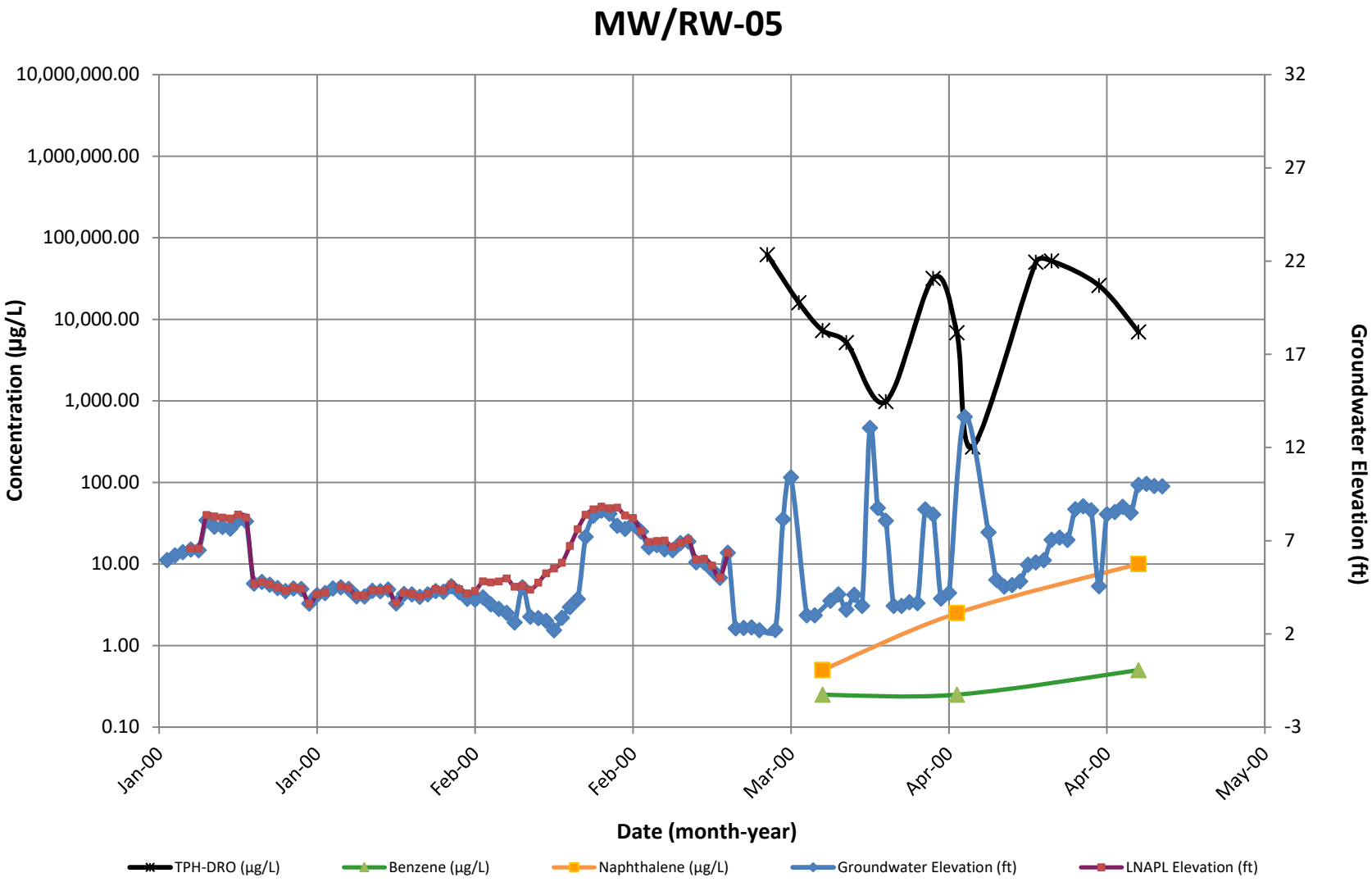
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

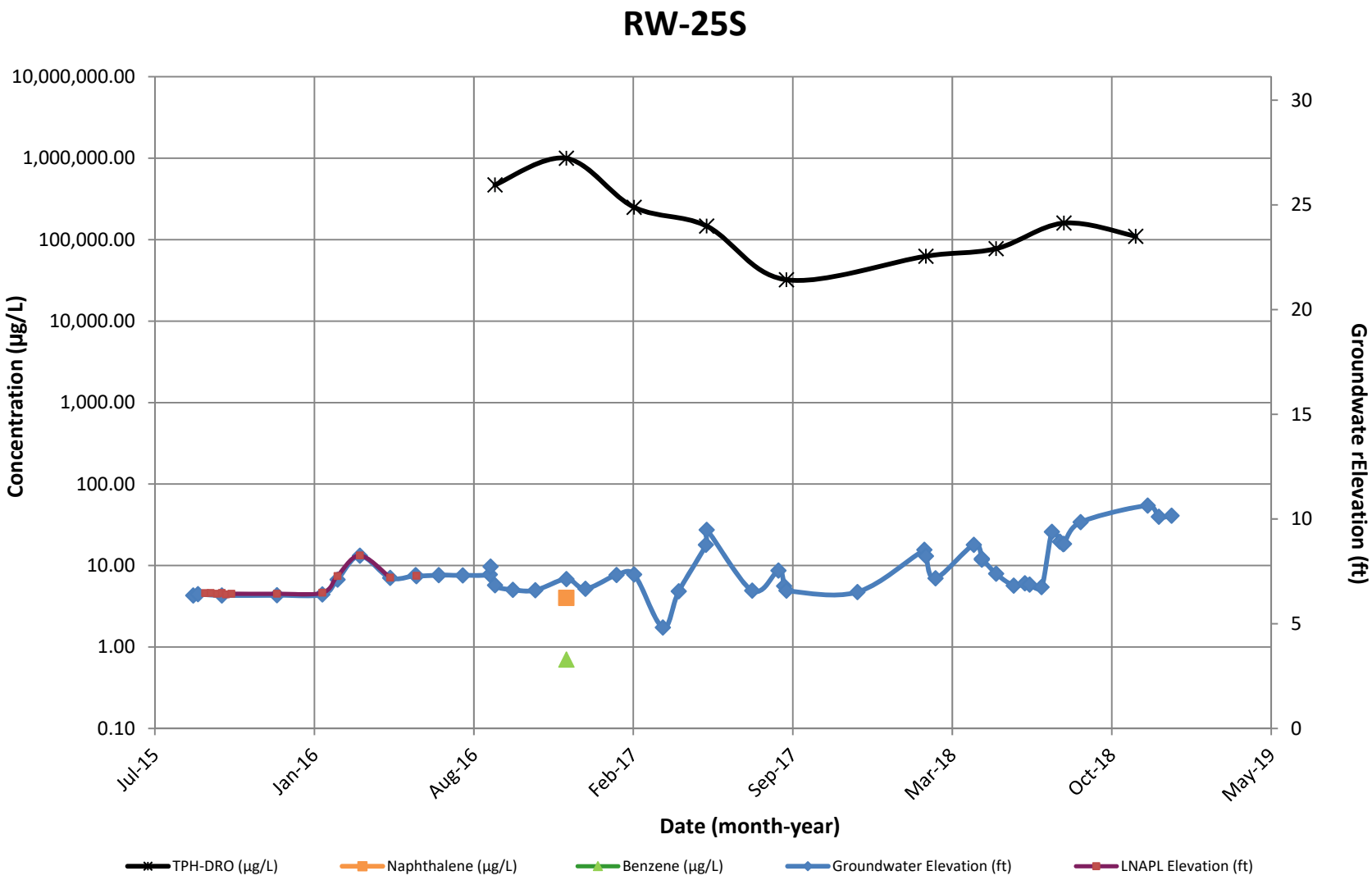


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

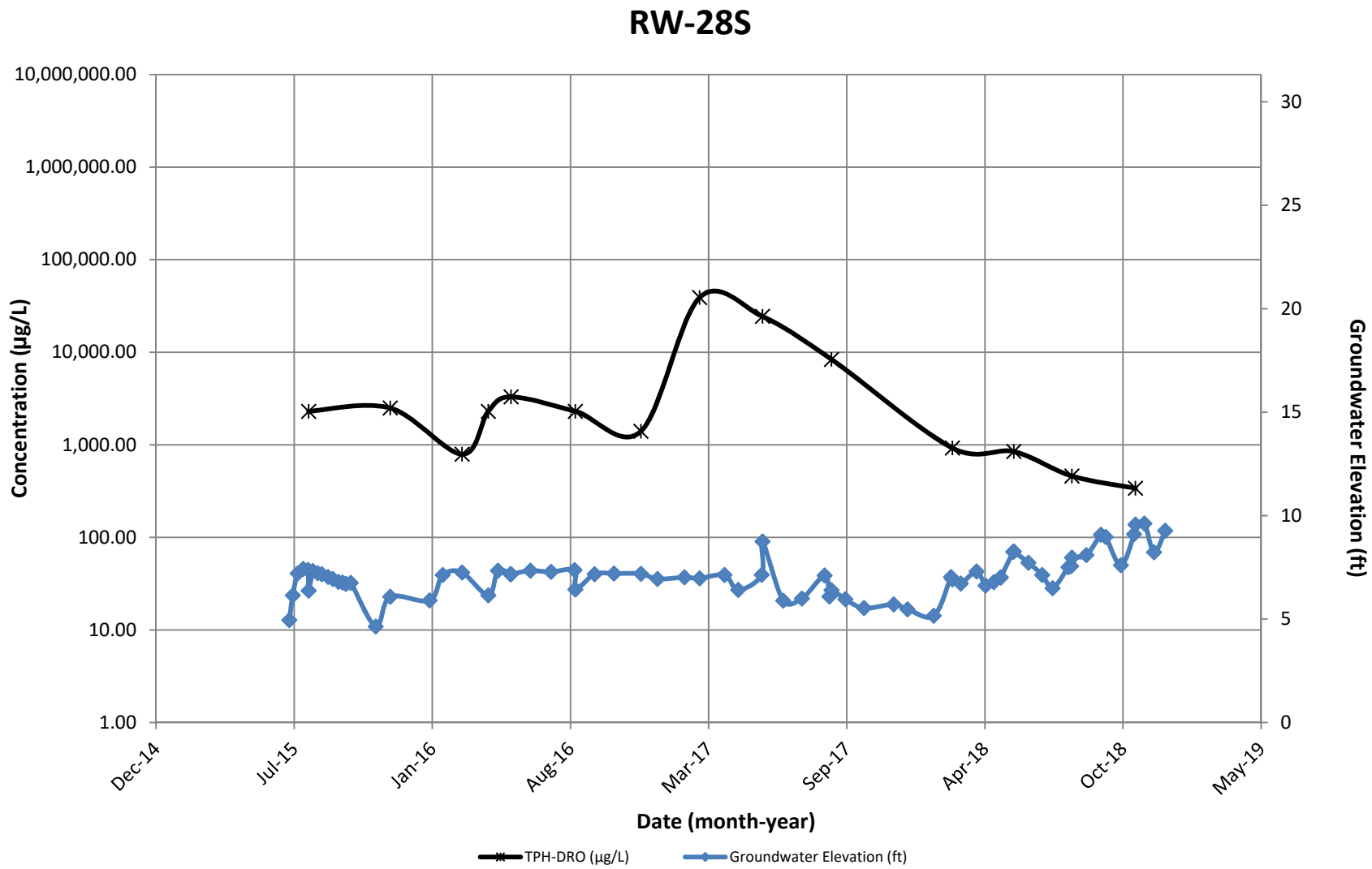


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

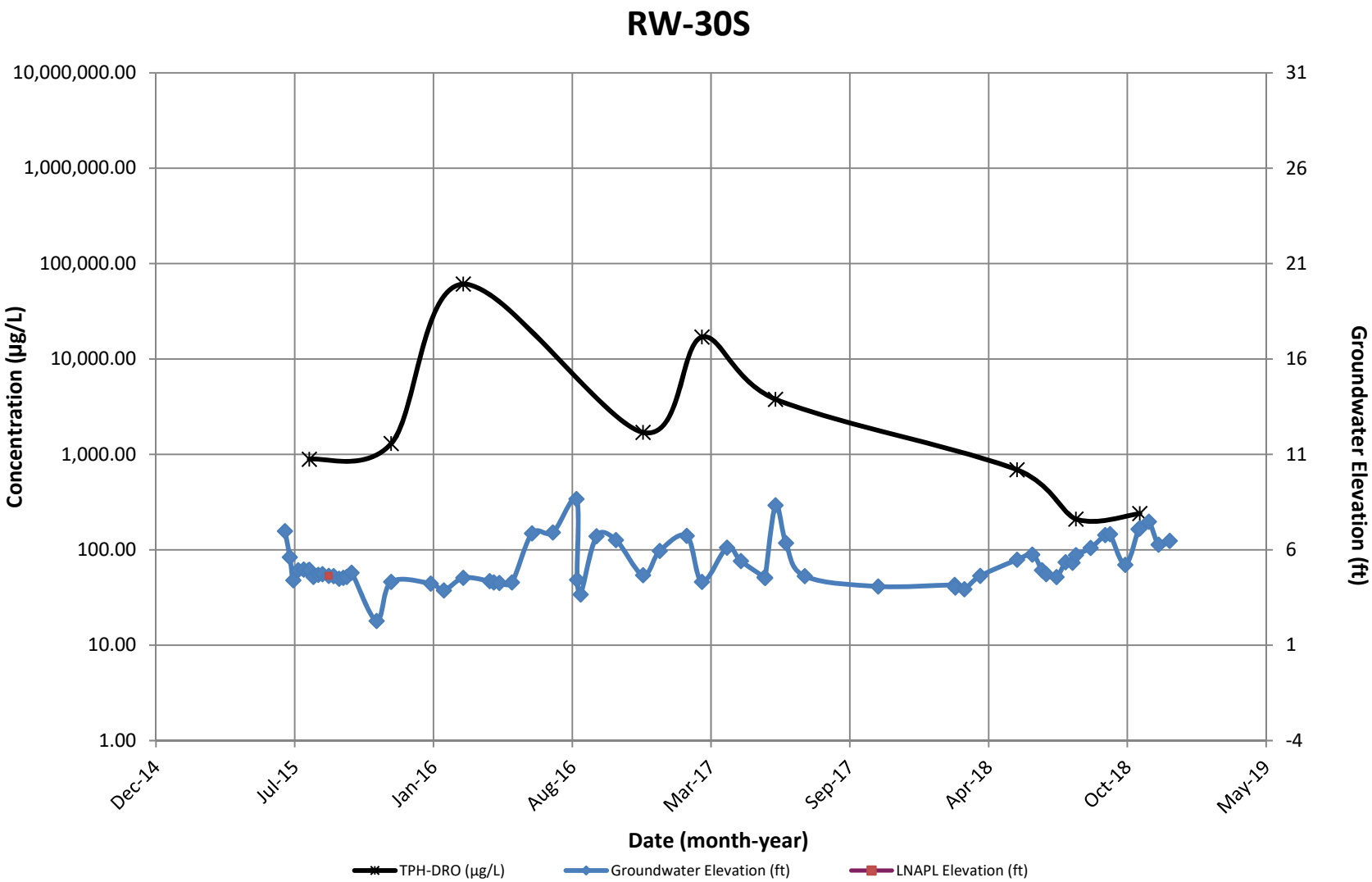
NRG PRGS
1400 North Royal Street
Alexandria, VA



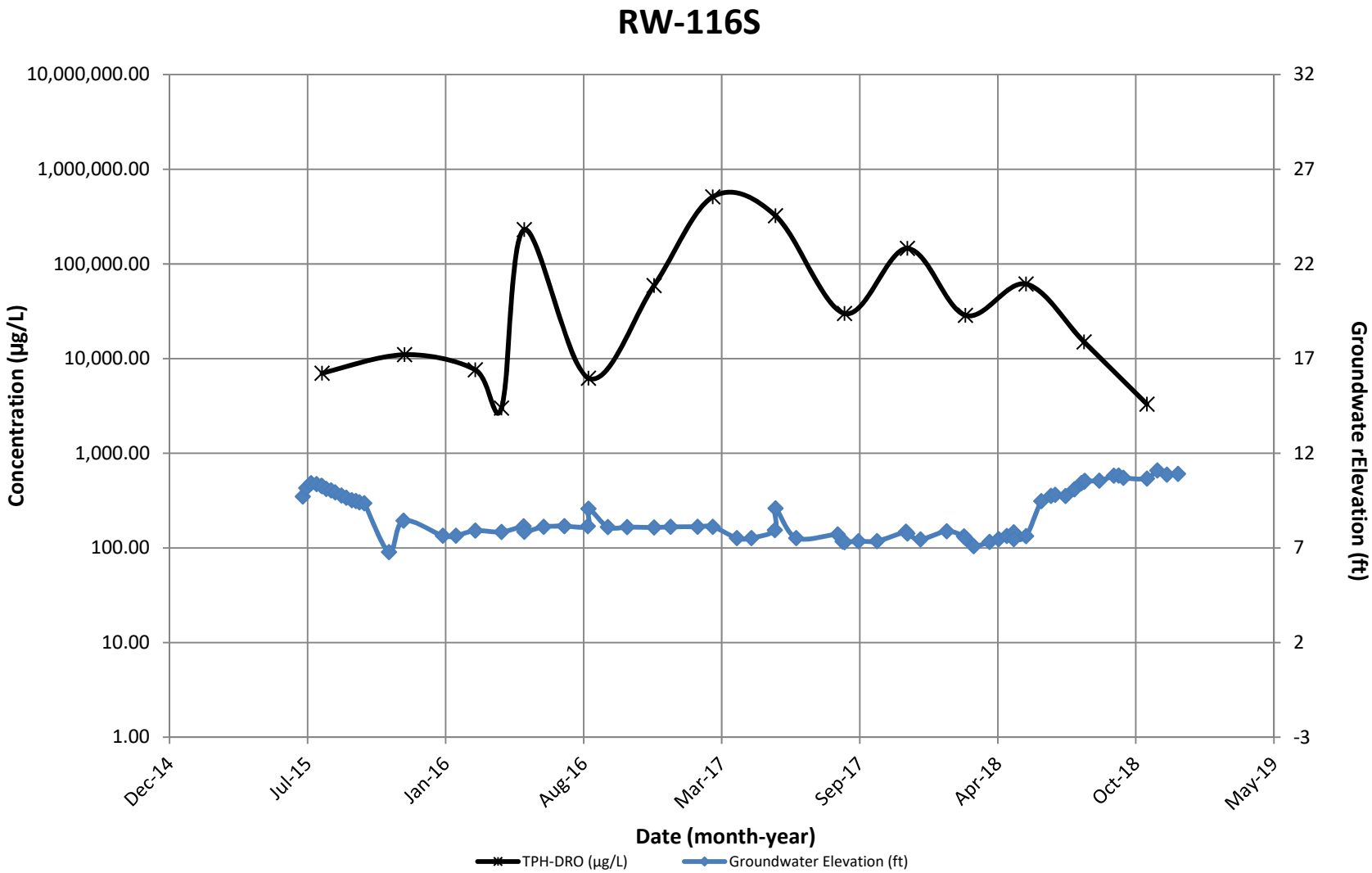
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



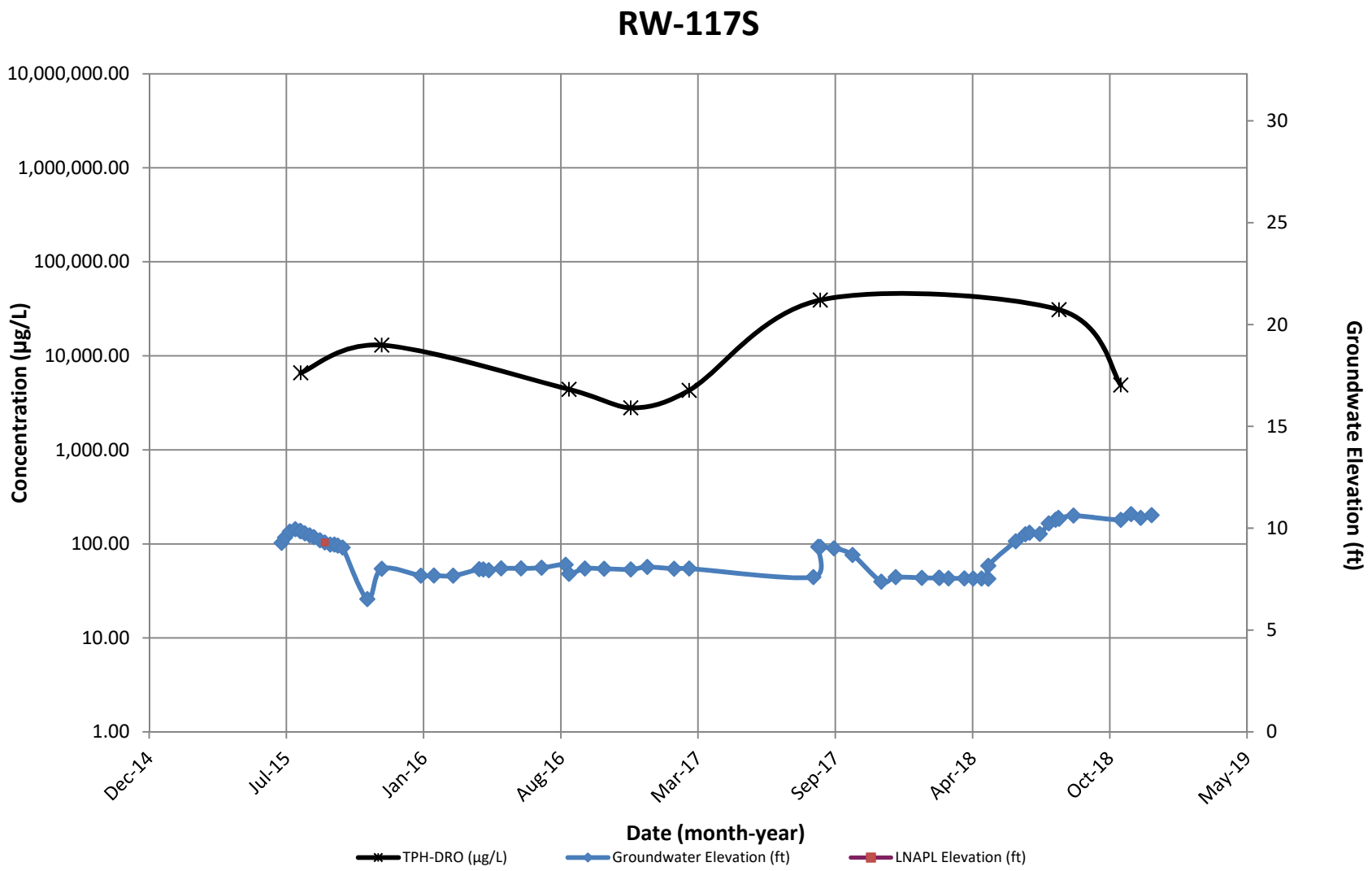
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

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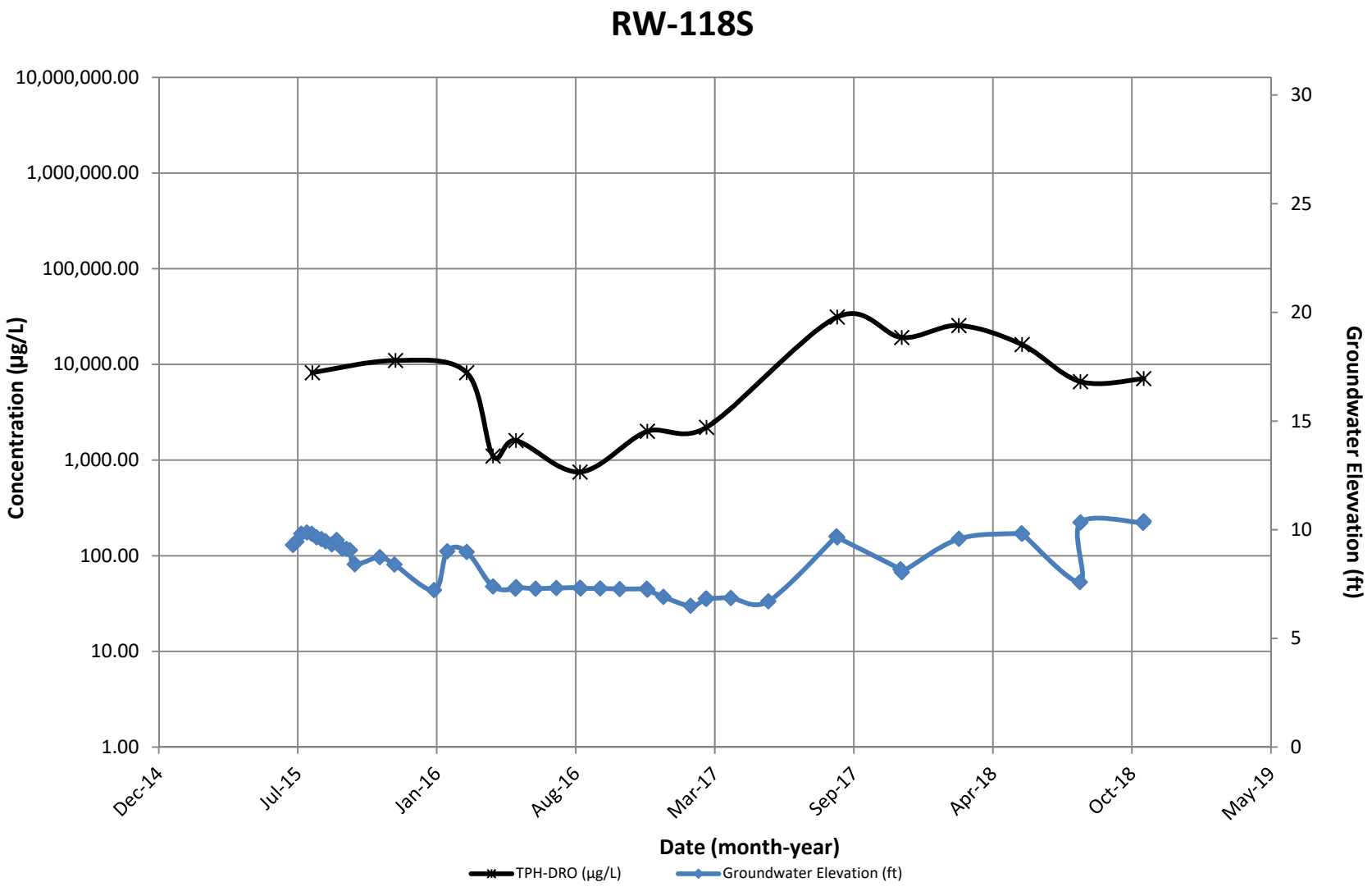
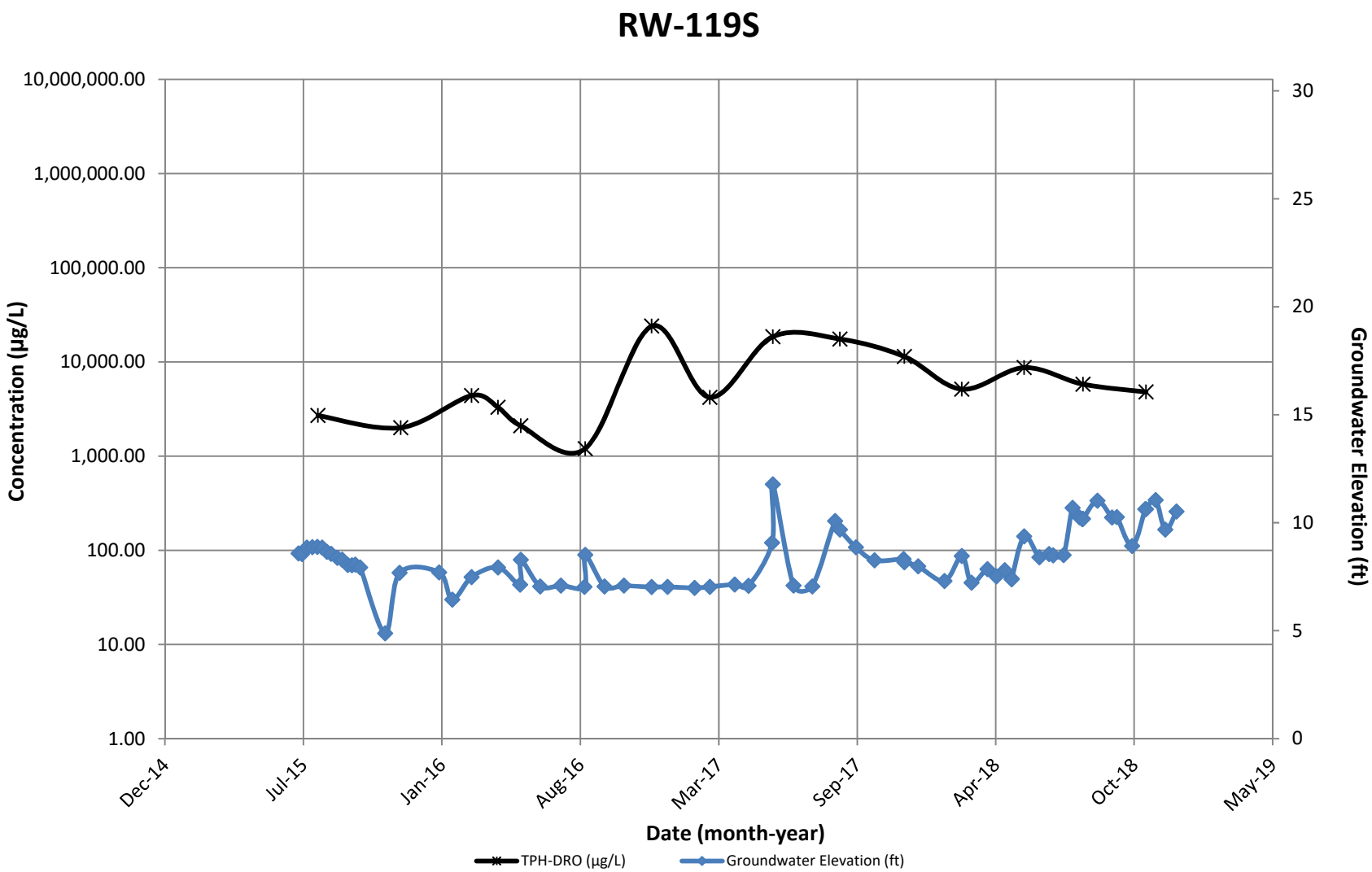
1400 North Royal Street
Alexandria, VA

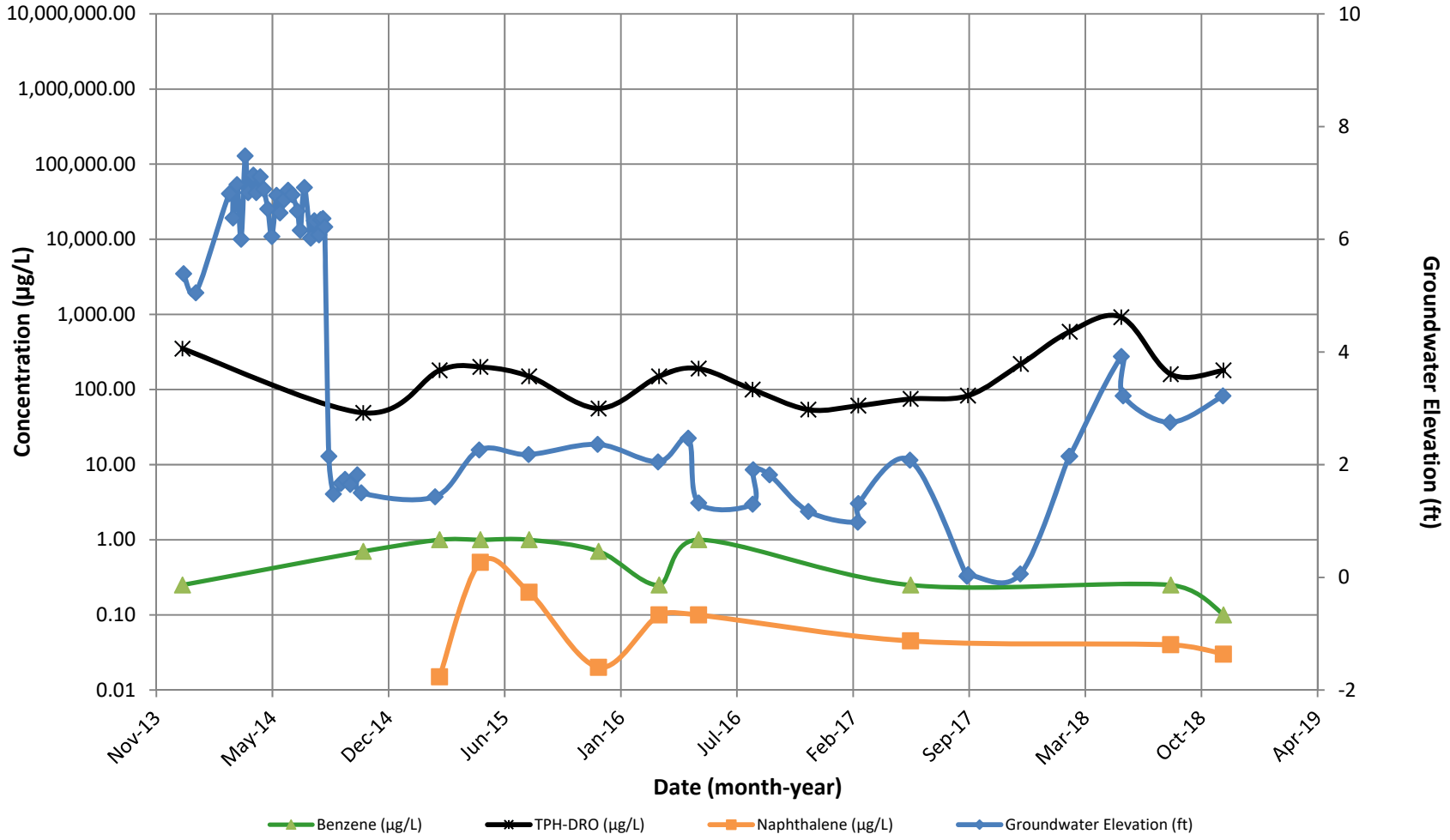


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

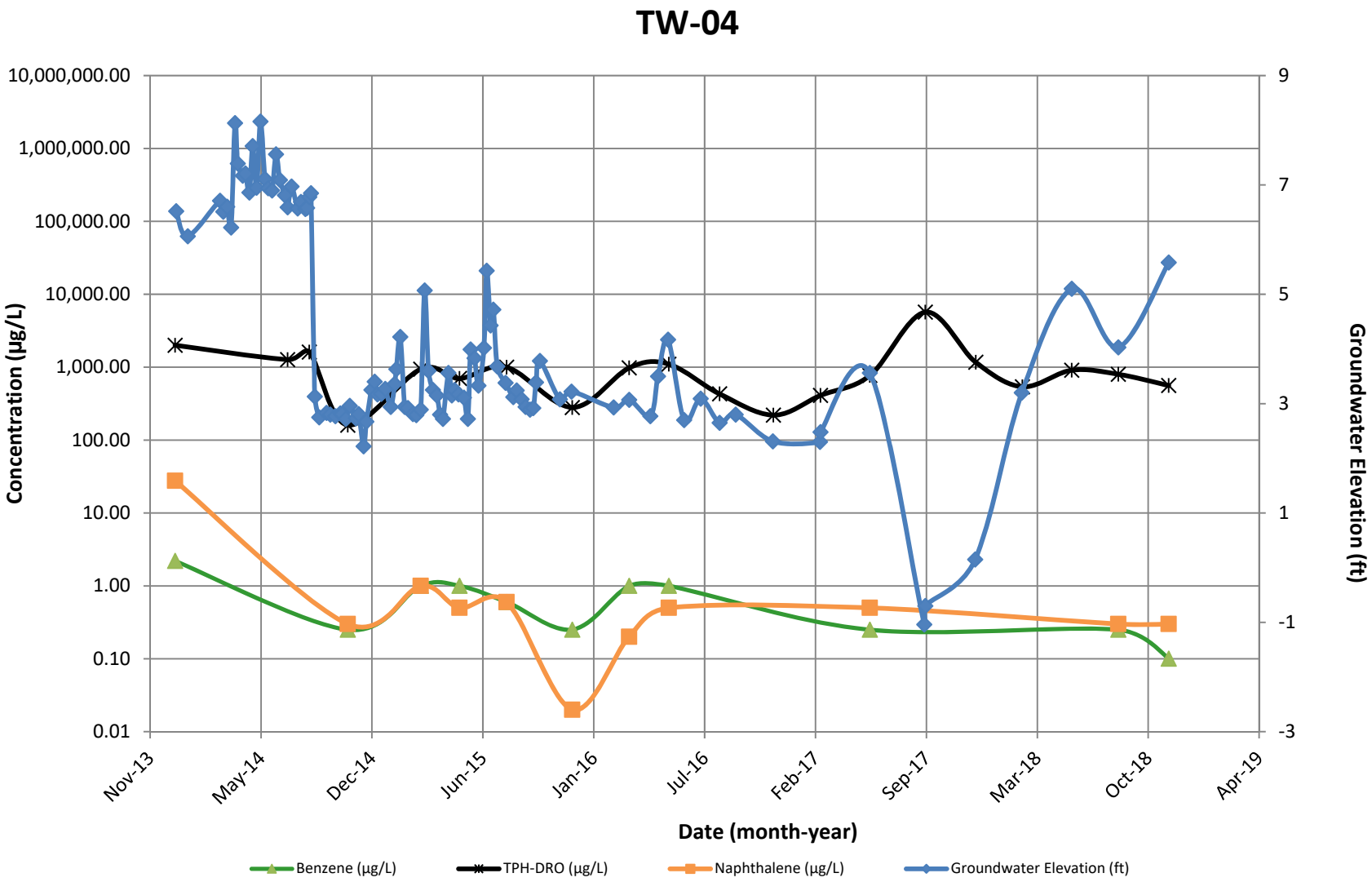


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

TW-03



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

NRG PRGS
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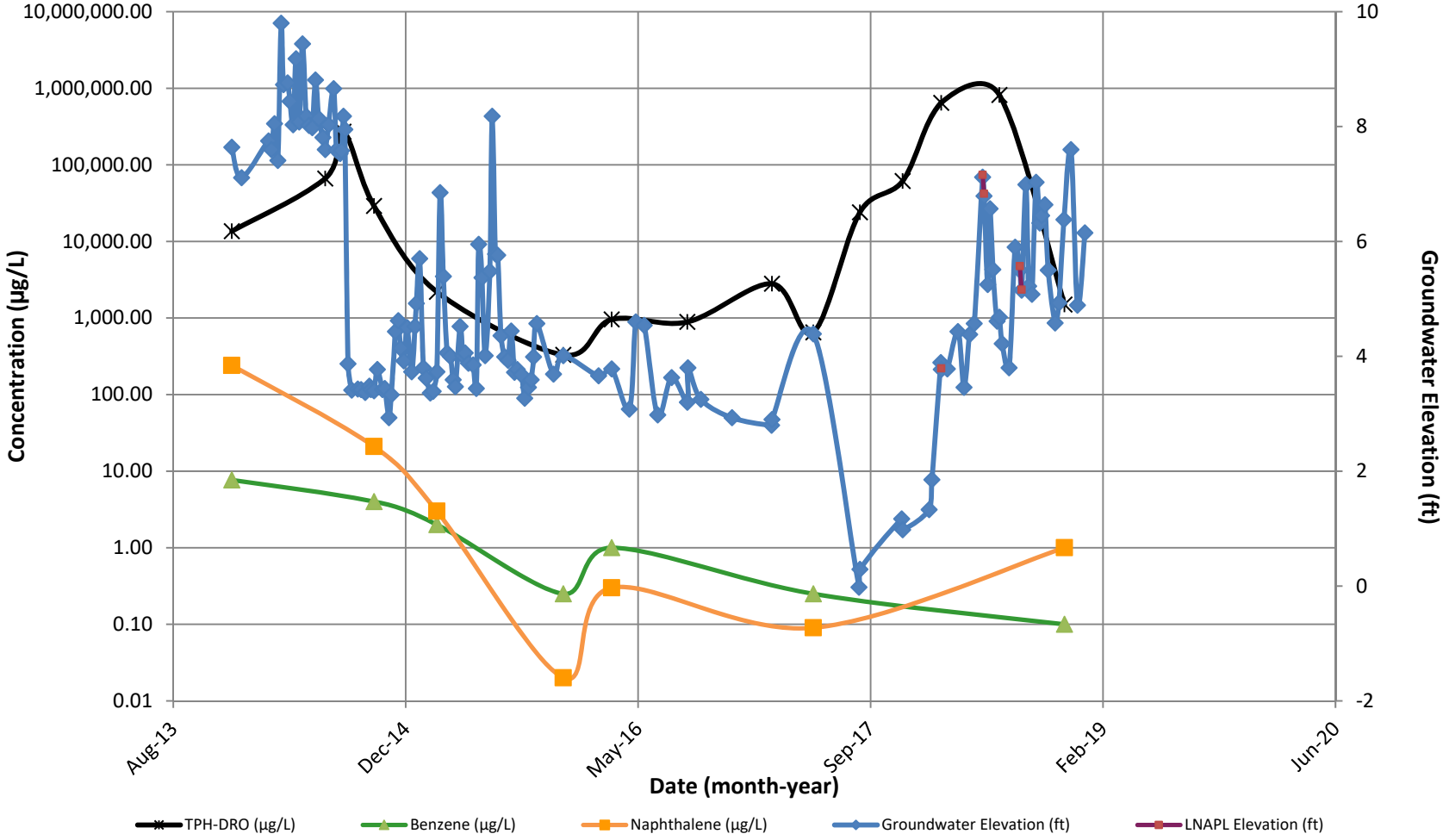
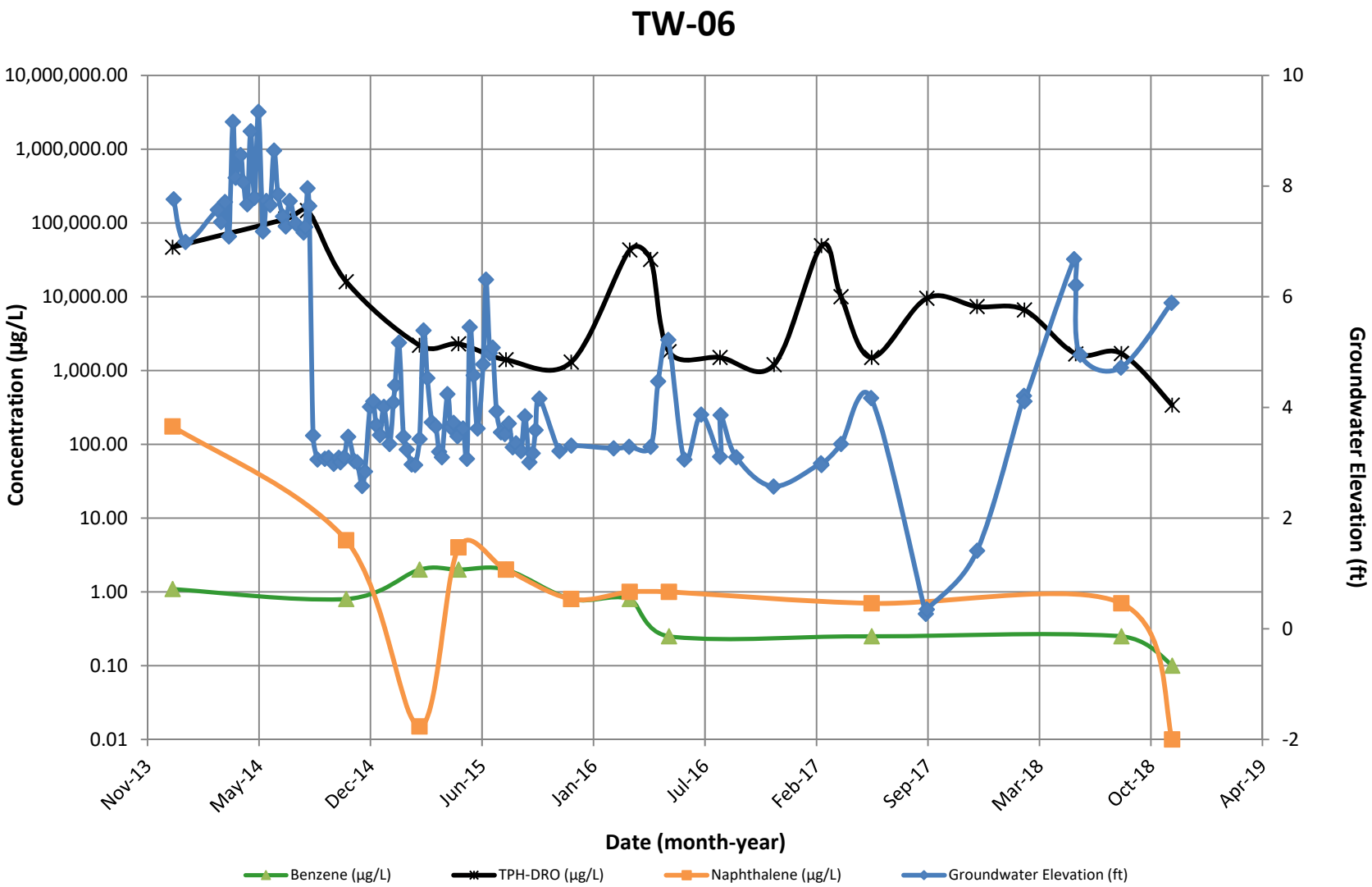
Alexandria, VA

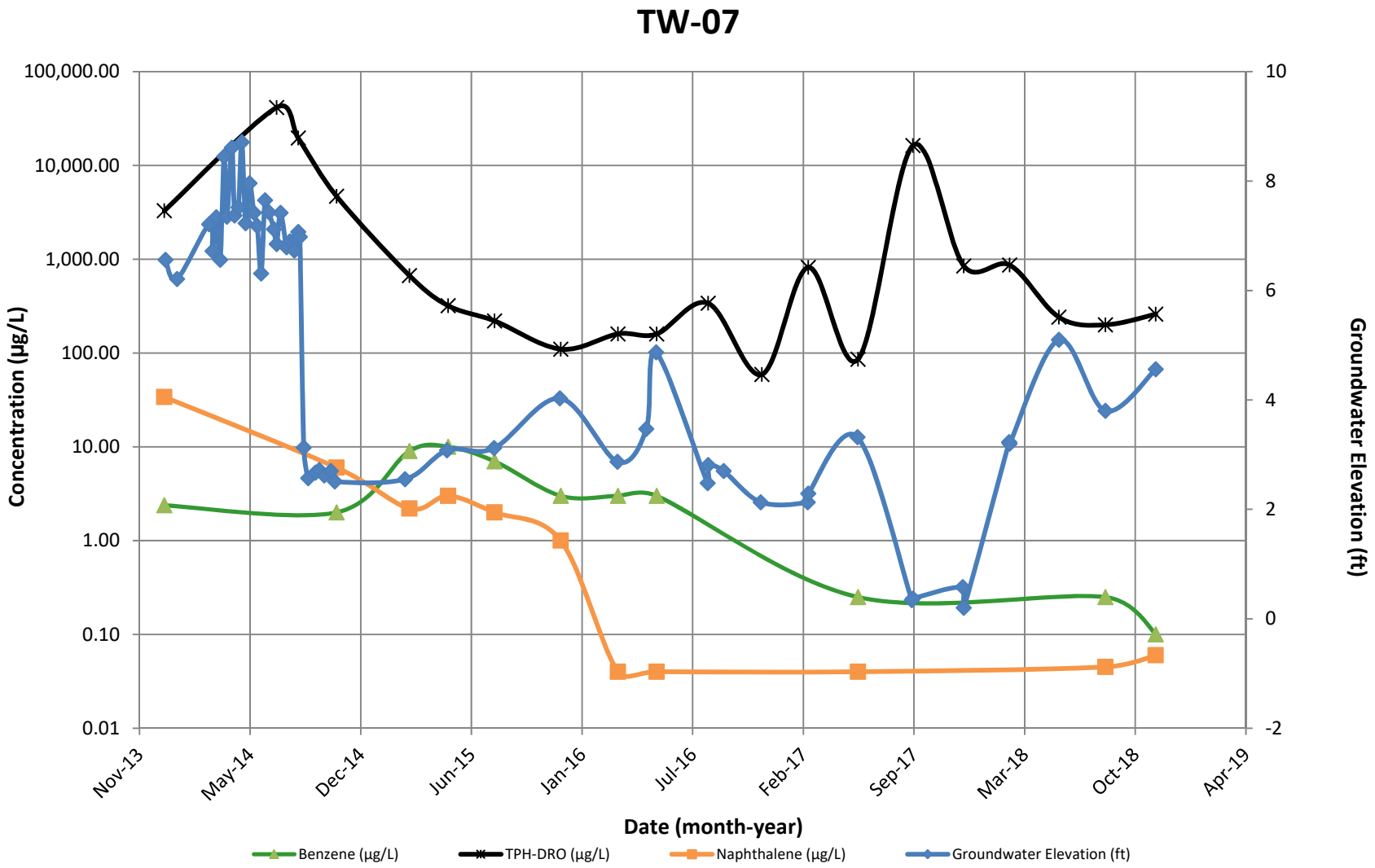
TW-05



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

Attachment B – Laboratory Analytical Reports and Chains of Custody Documentation - November 12-14, 2018 Groundwater Monitoring Events

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: December 03, 2018 05:54

Project: NRG PRGS

Account #: 08390
Group Number: 2009424
PO Number: 0402919-51-206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
RW-123S Grab Groundwater	11/13/2018 09:50	9900143
MW/RW-51 Grab Groundwater	11/13/2018 10:10	9900144
MW-11 Grab Groundwater	11/13/2018 11:35	9900145
MW-01S Grab Groundwater	11/13/2018 12:00	9900146
MW-51S Grab Groundwater	11/13/2018 12:35	9900147
MW/RW-14 Grab Groundwater	11/13/2018 13:30	9900148
MW-10S Grab Groundwater	11/13/2018 14:00	9900149

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

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Analysis Report

Sample Description: **RW-123S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 09:50

GES, Inc.
ELLE Sample #: GW 9900143
ELLE Group #: 2009424
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	6,400	53	1
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	160	1.7	1

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	183200045A	11/20/2018 10:27	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 08:54	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW/RW-51 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: GW 9900144
ELLE Group #: 2009424
Matrix: Groundwater

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 10:10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	2	0.2	1
10945	Ethylbenzene	100-41-4	2	0.2	1
10945	Naphthalene	91-20-3	11	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	0.9 J	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	28,000	53	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.				
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	79.0	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 13:30	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 13:29	Alexander D Sechrist	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183200045A	11/20/2018 10:50	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 04:40	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-11 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:35

GES, Inc.
ELLE Sample #: GW 9900145
ELLE Group #: 2009424
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	7,300	53	1

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	183200045A	11/20/2018 11:13	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-01S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:00

GES, Inc.
ELLE Sample #: GW 9900146
ELLE Group #: 2009424
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**	**ug/l**	**ug/l**	
07105	Methane	74-82-8	2,000	30	10
GC Petroleum Hydrocarbons		**SW-846 8015B**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,100	53	1
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	11.2	0.0011	1
Wet Chemistry		**EPA 300.0**	**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	190	30.0	100
		EPA 353.2	**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.089 J	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
		SM 3500-Fe B-2011	**mg/l**	**mg/l**	
14855	Ferrous Iron	n.a.	41.0	0.750	50
		SM 2320 B-2011	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	162	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 13:54	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 13:53	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183190016A	11/16/2018 18:08	Johanna C Kennedy	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	183200045A	11/20/2018 11:37	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183250184801	11/23/2018 16:09	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183250184801	11/21/2018 15:25	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18320120209B	11/18/2018 00:55	Hallie A Burnett	100
00220	Nitrate Nitrogen	EPA 353.2	1	18323106101A	11/19/2018 11:07	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18319105101A	11/15/2018 08:53	Brianna A Poole	1

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Analysis Report

Sample Description: **MW-01S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:00

GES, Inc.
ELLE Sample #: GW 9900146
ELLE Group #: 2009424
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:55	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 05:11	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-51S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:35

GES, Inc.
ELLE Sample #: GW 9900147
ELLE Group #: 2009424
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	86	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	6,600	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	7.35	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	384	30.0	100
		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 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	102	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	108	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	183190016A	11/15/2018 13:10	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183200045A	11/20/2018 12:00	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183250184801	11/23/2018 16:16	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183250184801	11/21/2018 15:25	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18320120209A	11/17/2018 18:26	Hallie A Burnett	100
00220	Nitrate Nitrogen	EPA 353.2	1	18323106101A	11/19/2018 11:13	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18319105101A	11/15/2018 08:54	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:54	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 08:36	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW/RW-14 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 13:30

GES, Inc.
ELLE Sample #: GW 9900148
ELLE Group #: 2009424
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	850	15	5
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	3,300	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.32	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	83.5	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 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	40.7	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	74.5	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	183190016A	11/16/2018 18:26	Johanna C Kennedy	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	183200045A	11/20/2018 12:23	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183250184801	11/23/2018 16:19	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183250184801	11/21/2018 15:25	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18320120209A	11/17/2018 19:19	Hallie A Burnett	10
00220	Nitrate Nitrogen	EPA 353.2	1	18323106101A	11/19/2018 11:14	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18319105101A	11/15/2018 09:05	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:54	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 08:42	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-10S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 14:00

GES, Inc.
ELLE Sample #: GW 9900149
ELLE Group #: 2009424
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene		71-43-2	N.D.	0.2	1
10945	Ethylbenzene		100-41-4	N.D.	0.2	1
10945	Naphthalene		91-20-3	N.D.	4	1
10945	Toluene		108-88-3	N.D.	0.2	1
10945	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	9.7	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	12,000	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	3.38	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	407	30.0	100
		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 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	66.4	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 15:07	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 15:06	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 10:24	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183200045A	11/20/2018 13:32	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183250184801	11/23/2018 16:22	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183250184801	11/21/2018 15:25	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18320120209A	11/28/2018 05:01	Samuel J Weaver	100
00220	Nitrate Nitrogen	EPA 353.2	1	18323106101A	11/19/2018 11:16	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18319105101A	11/15/2018 09:06	Brianna A Poole	1

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Analysis Report

Sample Description: **MW-10S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 14:00

GES, Inc.
ELLE Sample #: GW 9900149
ELLE Group #: 2009424
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:53	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 09:20	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 05:54

Group Number: 2009424

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: Z183242AA	Sample number(s): 9900144,9900146,9900149	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Naphthalene	N.D.	4
Toluene	N.D.	0.2
Xylene (Total)	N.D.	0.5
Batch number: 183190016A	Sample number(s): 9900146-9900148	
Methane	N.D.	3.0
Batch number: 183200014A	Sample number(s): 9900149	
Methane	N.D.	3.0
Batch number: 183200045A	Sample number(s): 9900143-9900149	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 183250184801	Sample number(s): 9900146-9900149	
Manganese	N.D.	0.0011
Batch number: 18319105101A	Sample number(s): 9900146-9900149	
Nitrite Nitrogen	N.D.	0.015
Batch number: 18320120209A	Sample number(s): 9900147-9900149	
Sulfate	N.D.	0.30
Batch number: 18320120209B	Sample number(s): 9900146	
Sulfate	N.D.	0.30
Batch number: 18323106101A	Sample number(s): 9900146-9900149	
Nitrate Nitrogen	N.D.	0.040
Batch number: 18325127102A	Sample number(s): 9900146-9900149	
Ferrous Iron	N.D.	0.0150
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 18320002205A	Sample number(s): 9900144,9900146	
Total Alkalinity to pH 4.5	N.D.	1.7
Batch number: 18324008206A	Sample number(s): 9900143,9900147-9900149	
Total Alkalinity to pH 4.5	N.D.	1.7

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 05:54

Group Number: 2009424

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: Z183242AA	Sample number(s): 9900144,9900146,9900149								
Benzene	20	20.89			104		80-120		
Ethylbenzene	20	20.14			101		80-120		
Naphthalene	20	19.5			98		53-124		
Toluene	20	20.77			104		80-120		
Xylene (Total)	60	60.62			101		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 183190016A	Sample number(s): 9900146-9900148								
Methane	59.83	67.86	59.83	67.14	113	112	85-115	1	20
Batch number: 183200014A	Sample number(s): 9900149								
Methane	59.83	64.64	59.83	65.54	108	110	85-115	1	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 183200045A	Sample number(s): 9900143-9900149								
DRO C10-C28	2735.86	2407.09	2767.66	2542.65	88	92	27-118	5	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 183250184801	Sample number(s): 9900146-9900149								
Manganese	0.500	0.496			99		90-112		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 18319105101A	Sample number(s): 9900146-9900149								
Nitrite Nitrogen	0.700	0.685			98		90-110		
Batch number: 18320120209A	Sample number(s): 9900147-9900149								
Sulfate	7.50	7.87			105		90-110		
Batch number: 18320120209B	Sample number(s): 9900146								
Sulfate	7.50	7.87			105		90-110		
Batch number: 18323106101A	Sample number(s): 9900146-9900149								
Nitrate Nitrogen	2.50	2.55			102		90-110		
Batch number: 18325127102A	Sample number(s): 9900146-9900149								
Ferrous Iron	1.00	1.05			105		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 18320002205A	Sample number(s): 9900144,9900146								
Total Alkalinity to pH 4.5	188	185.16			98		77-109		
Batch number: 18324008206A	Sample number(s): 9900143,9900147-9900149								
Total Alkalinity to pH 4.5	188	187.34	188	190.68	100	101	77-109	2	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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 05:54

Group Number: 2009424

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l as CaCO3	LCS Conc mg/l as CaCO3	LCSD Spike Added mg/l as CaCO3	LCSD Conc mg/l as CaCO3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

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: Z183242AA	Sample number(s): 9900144,9900146,9900149 UNSPK: 9900146									
Benzene	N.D.	20	23.92	20	24.8	120	124*	80-120	4	30
Ethylbenzene	N.D.	20	23.43	20	23.97	117	120	80-120	2	30
Naphthalene	N.D.	20	23.16	20	23.85	116	119	53-124	3	30
Toluene	N.D.	20	23.68	20	24.5	118	122*	80-120	3	30
Xylene (Total)	N.D.	60	69.11	60	70.7	115	118	80-120	2	30
	mg/l	mg/l	mg/l	mg/l	mg/l					
Batch number: 18320120209A	Sample number(s): 9900147-9900149 UNSPK: 9900147									
Sulfate	383.69	500	858.14			95		90-110		
Batch number: 18323106101A	Sample number(s): 9900146-9900149 UNSPK: 9900146									
Nitrate Nitrogen	0.0891	1.00	1.17			108		90-110		

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: 18320120209A	Sample number(s): 9900147-9900149 BKG: 9900147			
Sulfate	383.69	376.31	2 (1)	15
Batch number: 18323106101A	Sample number(s): 9900146-9900149 BKG: 9900146			
Nitrate Nitrogen	0.0891	0.0836	6 (1)	10

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 05:54

Group Number: 2009424

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: BTEX,Naph
Batch number: Z183242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9900144	108	101	102	101
9900146	109	100	103	101
9900149	109	99	103	100
Blank	110	100	103	97
LCS	106	100	102	101
MS	108	102	103	102
MSD	108	101	103	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Methane
Batch number: 183190016A

	Propene
9900146	85
9900147	77
9900148	82
Blank	103
LCS	104
LCSD	100
Limits:	46-135

Analysis Name: Methane
Batch number: 183200014A

	Propene
9900149	77
Blank	102
LCS	99
LCSD	102
Limits:	46-135

Analysis Name: DRO micro-ext 8015B
Batch number: 183200045A

	Orthoterphenyl
9900143	116
9900144	179*
9900145	101
9900146	119
9900147	93
9900148	96
9900149	62

*- 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.

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Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 05:54

Group Number: 2009424

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.

Analysis Name: DRO micro-ext 8015B
Batch number: 183200045A

	Orthoterphenyl
Blank	102
LCS	96
LCSD	94
Limits:	62-128

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 2009424 Sample # 9900143-49

Client: Groundwater & Env. Services, Inc.
Project Name/#: NRG PRGS | Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell | P.O. #: 0402919/51/206
Sampler: Amelia Ryan | 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: Water (Potable / Ground / NPDES / Surface)	Matrix: Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)		Remarks
Preservation Codes										H			H	S	N	H			H		
RW-123S	11/13/18	0950	X				X		3	X				X							
MW/RW-51	11/13/18	1010	X				X		6	X			X	X							
MW-11	11/13/18	1135	X				X		2	X											
MW-01S	11/13/18	1200	X				X		13	X			X	X	X	X	X	X	X		
MW-51S	11/13/18	1235	X				X		10	X				X	X	X	X	X	X		
MW/RW-14	11/13/18	1330	X				X		10	X				X	X	X	X	X	X		
~~RW-10S~~ MW-10S	11/13/18	1400	X				X		13	X			X	X	X	X	X	X	X		
per A. Bell																					
LF593 11/19/18																					

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: seprregion@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
Amelia Ryan	11/13/18	1645	Denise Wadding	11-14	1100
Denise Wadding	11-14-18	1330	[illegible]	11/14/18	13:30
[illegible]	11/14/18	17:50			

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other ✓

Temperature upon receipt 0.8-1.1 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233333

Group Number(s): 2W9424

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/14/2018 17:50
Number of Packages:	2	Number of Projects:	5
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	No
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 Conrad Burkholder (12671) at 19:39 on 11/14/2018

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	DT42-01	0.8	DT	Wet	Y	Bagged	N
2	DT42-01	1.1	DT	Wet	Y	Bagged	N

Sample ID Discrepancy Details

Sample ID on COC	Sample ID on Label	Comments
RW-10S	MW-10S	Per A. Bell, use MW-10S. LF593 11/19/18

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Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: December 14, 2018 15:00

Project: NRG PRGS

Account #: 08390
Group Number: 2009425
PO Number: 0402919-51-206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-15S Grab Groundwater	11/13/2018 10:10	9900150
MW-08S Grab Groundwater	11/13/2018 10:20	9900151
MW-109 Grab Groundwater	11/13/2018 12:30	9900152
MW-109S Grab Groundwater	11/13/2018 12:40	9900153
MW-110 Grab Groundwater	11/13/2018 12:50	9900154
MW-110S Grab Groundwater	11/13/2018 13:00	9900155
MW-111 Grab Groundwater	11/13/2018 13:10	9900156
MW-112 Grab Groundwater	11/13/2018 13:20	9900157
MW-112S Grab Groundwater	11/13/2018 13:30	9900158
MW-113 Grab Groundwater	11/13/2018 13:40	9900159
MW-114 Grab Groundwater	11/13/2018 13:50	9900160
RW-118S Grab Groundwater	11/13/2018 14:25	9900161
RW-119S Grab Groundwater	11/13/2018 14:30	9900162
TW-05 Grab Groundwater	11/13/2018 11:05	9900163
TW-06 Grab Groundwater	11/13/2018 12:40	9900164
TW-03 Grab Groundwater	11/13/2018 14:00	9900165

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

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Analysis Report

Sample Description: **MW-15S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 10:10

GES, Inc.
ELLE Sample #: GW 9900150
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	360	53	1

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	183200045A	11/20/2018 13:56	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-08S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 10:20

GES, Inc.
ELLE Sample #: GW 9900151
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	1 J	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	6,100	53	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 15:32	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 15:31	Alexander D Sechrist	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183200045A	11/20/2018 14:19	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-109 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:30

GES, Inc.
ELLE Sample #: GW 9900152
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1

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	183200045A	11/20/2018 14:42	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-109S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:40

GES, Inc.
ELLE Sample #: GW 9900153
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,300	53	1

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	183200045A	11/20/2018 15:05	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-110 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:50

GES, Inc.
ELLE Sample #: GW 9900154
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1

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	183200045A	11/20/2018 15:28	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-110S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: GW 9900155
ELLE Group #: 2009425
Matrix: Groundwater

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 13:00

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	460	53	1

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	183200045A	11/20/2018 15:51	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-111 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 13:10

GES, Inc.
ELLE Sample #: GW 9900156
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	110	53	1

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	183200045A	11/20/2018 16:14	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-112 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 13:20

GES, Inc.
ELLE Sample #: GW 9900157
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1

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	183200045A	11/20/2018 16:37	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-112S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 13:30

GES, Inc.
ELLE Sample #: GW 9900158
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,600	53	1

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	183200045A	11/20/2018 17:00	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-113 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 13:40

GES, Inc.
ELLE Sample #: GW 9900159
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1

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	183200045A	11/20/2018 18:14	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **MW-114 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 13:50

GES, Inc.
ELLE Sample #: GW 9900160
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1

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	183200045A	11/20/2018 18:37	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1

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Analysis Report

Sample Description: **RW-118S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 14:25

GES, Inc.
ELLE Sample #: GW 9900161
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	7,100	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	582	60.0	200
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	93.6	1.7	1

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	183200045A	11/20/2018 19:00	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	18320120209B	11/18/2018 01:13	Hallie A Burnett	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 08:30	Jeremy L Bolf	1

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Analysis Report

Sample Description: **RW-119S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 14:30

GES, Inc.
ELLE Sample #: GW 9900162
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	4,800	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	317	60.0	200
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	98.1	1.7	1

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	183200045A	11/20/2018 19:23	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200045A	11/19/2018 06:20	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	18320120209B	11/17/2018 22:34	Hallie A Burnett	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18319005203A	11/16/2018 05:01	Jeremy L Bolf	1

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Analysis Report

Sample Description: **TW-05 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:05

GES, Inc.
ELLE Sample #: GW 9900163
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	20	3.0	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.72	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	349	15.0	50
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.13	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	58.9	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	2.1 J	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 10:42	Johanna C Kennedy	1
07058	Manganese	SW-846 6010B	1	183250184801	11/23/2018 16:24	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183250184801	11/21/2018 15:25	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18320120209A	11/17/2018 20:12	Hallie A Burnett	50
00220	Nitrate Nitrogen	EPA 353.2	1	18323106101A	11/19/2018 11:18	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18319105101A	11/15/2018 08:52	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:55	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 05:05	Jeremy L Bolf	1

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Analysis Report

Sample Description: **TW-06 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:40

GES, Inc.
ELLE Sample #: GW 9900164
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	12	3.0	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	0.288	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	131	6.0	20
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.48	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	10.8	0.150	10
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	55.6	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 10:59	Johanna C Kennedy	1
07058	Manganese	SW-846 6010B	1	183250184801	11/23/2018 16:27	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183250184801	11/21/2018 15:25	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18320120209A	11/28/2018 05:20	Samuel J Weaver	20
00220	Nitrate Nitrogen	EPA 353.2	1	18323106101A	11/19/2018 11:20	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18319105101A	11/15/2018 08:55	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:52	Joseph E McKenzie	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18319005203A	11/16/2018 04:55	Jeremy L Bolf	1

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Analysis Report

Sample Description: **TW-03 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 14:00

GES, Inc.
ELLE Sample #: GW 9900165
ELLE Group #: 2009425
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	93	3.0	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	7.92	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	549	30.0	100
		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 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	59.2	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	39.2	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 11:17	Johanna C Kennedy	1
07058	Manganese	SW-846 6010B	1	183250184801	11/23/2018 16:29	Elaine F Stoltzfus	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183250184801	11/21/2018 15:25	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18320120209A	11/17/2018 20:30	Hallie A Burnett	100
00220	Nitrate Nitrogen	EPA 353.2	1	18323106101A	11/19/2018 11:26	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18319105101B	11/15/2018 09:07	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:56	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 03:35	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/14/2018 15:00

Group Number: 2009425

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: Z183242AA	Sample number(s): 9900151	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Naphthalene	N.D.	4
Toluene	N.D.	0.2
Xylene (Total)	N.D.	0.5
Batch number: 183200014A	Sample number(s): 9900163-9900165	
Methane	N.D.	3.0
Batch number: 183200045A	Sample number(s): 9900150-9900162	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 183250184801	Sample number(s): 9900163-9900165	
Manganese	N.D.	0.0011
Batch number: 18319105101A	Sample number(s): 9900163-9900164	
Nitrite Nitrogen	N.D.	0.015
Batch number: 18319105101B	Sample number(s): 9900165	
Nitrite Nitrogen	N.D.	0.015
Batch number: 18320120209A	Sample number(s): 9900163-9900165	
Sulfate	N.D.	0.30
Batch number: 18320120209B	Sample number(s): 9900161-9900162	
Sulfate	N.D.	0.30
Batch number: 18323106101A	Sample number(s): 9900163-9900165	
Nitrate Nitrogen	N.D.	0.040
Batch number: 18325127102A	Sample number(s): 9900163-9900165	
Ferrous Iron	N.D.	0.0150
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 18319005203A	Sample number(s): 9900162,9900164	
Total Alkalinity to pH 4.5	N.D.	1.7
Batch number: 18320002205A	Sample number(s): 9900163,9900165	
Total Alkalinity to pH 4.5	N.D.	1.7
Batch number: 18324008206A	Sample number(s): 9900161	
Total Alkalinity to pH 4.5	N.D.	1.7

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/14/2018 15:00

Group Number: 2009425

Method Blank (continued)

Analysis Name	Result mg/l as CaCO3	MDL mg/l as CaCO3

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: Z183242AA	Sample number(s): 9900151								
Benzene	20	20.89			104		80-120		
Ethylbenzene	20	20.14			101		80-120		
Naphthalene	20	19.5			98		53-124		
Toluene	20	20.77			104		80-120		
Xylene (Total)	60	60.62			101		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 183200014A	Sample number(s): 9900163-9900165								
Methane	59.83	64.64	59.83	65.54	108	110	85-115	1	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 183200045A	Sample number(s): 9900150-9900162								
DRO C10-C28	2735.86	2407.09	2767.66	2542.65	88	92	27-118	5	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 183250184801	Sample number(s): 9900163-9900165								
Manganese	0.500	0.496			99		90-112		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 18319105101A	Sample number(s): 9900163-9900164								
Nitrite Nitrogen	0.700	0.685			98		90-110		
Batch number: 18319105101B	Sample number(s): 9900165								
Nitrite Nitrogen	0.700	0.685			98		90-110		
Batch number: 18320120209A	Sample number(s): 9900163-9900165								
Sulfate	7.50	7.87			105		90-110		
Batch number: 18320120209B	Sample number(s): 9900161-9900162								
Sulfate	7.50	7.87			105		90-110		
Batch number: 18323106101A	Sample number(s): 9900163-9900165								
Nitrate Nitrogen	2.50	2.55			102		90-110		
Batch number: 18325127102A	Sample number(s): 9900163-9900165								
Ferrous Iron	1.00	1.05			105		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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/14/2018 15:00

Group Number: 2009425

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
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 18319005203A	Sample number(s): 9900162,9900164								
Total Alkalinity to pH 4.5	188	185.06			98		77-109		
Batch number: 18320002205A	Sample number(s): 9900163,9900165								
Total Alkalinity to pH 4.5	188	185.16			98		77-109		
Batch number: 18324008206A	Sample number(s): 9900161								
Total Alkalinity to pH 4.5	188	187.34	188	190.68	100	101	77-109	2	5

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: 18319105101B	Sample number(s): 9900165 UNSPK: 9900165									
Nitrite Nitrogen	N.D.	0.200	0.174			87*		90-110		
Batch number: 18320120209B	Sample number(s): 9900161-9900162 UNSPK: 9900162									
Sulfate	317.41	1000	1277.33			96		90-110		

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: 18319105101B	Sample number(s): 9900165 BKG: 9900165			
Nitrite Nitrogen	N.D.	N.D.	0 (1)	20
Batch number: 18320120209B	Sample number(s): 9900161-9900162 BKG: 9900162			
Sulfate	317.41	311.18	2 (1)	15

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/14/2018 15:00

Group Number: 2009425

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: BTEX,Naph
Batch number: Z183242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9900151	109	101	102	99
Blank	110	100	103	97
LCS	106	100	102	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Methane
Batch number: 183200014A

	Propene
9900163	77
9900164	84
9900165	90
Blank	102
LCS	99
LCSD	102
Limits:	46-135

Analysis Name: DRO micro-ext 8015B
Batch number: 183200045A

	Orthoterphenyl
9900150	99
9900151	95
9900152	100
9900153	101
9900154	97
9900155	101
9900156	98
9900157	96
9900158	103
9900159	98
9900160	97
9900161	97
9900162	97
Blank	102
LCS	96
LCSD	94
Limits:	62-128

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8340 Group # 209425 Sample # ~~99~~ 9900150-65 (BW 28 11/14/18)

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell	P.O. #: 0402919/51/206
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	Soil	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)	Remarks
MW-15S	11-13-18	1010	X					X					2	X										
MW-08S		1020											5	X			X							
MW-109		1230											2											
MW-109S		1240																						
MW-110		1250																						
MW-110S		1300																						
MW-111		1310																						
MW-112		1320																						
MW-112S		1330																						
MW-113	11-13-18	1340	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: seprregion@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	11-14-18	0730	Denise Woodring	11-14-18	1100
Denise Woodring	11-14-18	1330	[illegible]	11/14/18	1330
[illegible]	11/14/18	17:58			
			[illegible]	11/14/18	17:58

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ✓

Temperature upon receipt 0.8-1.1 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 8340 Group # 2009425 Sample # 9900150-65

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell	P.O. #: 0402919/51/206
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	Sediment	Potable	Ground	Surface	Water	NPDES	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)	Remarks
MW-114	11-13-18	1350	X					X					2	X										
RW-118S	↓	1425	↓					↓					4	X				X				X		
RW-119S		1430											4	X				X				X		
TW-05		1605											8					X	X	X	X	X	X	
TW-06	↓	1240	↓					↓					8					X	X	X	X	X	X	
TW-03	11-13-18	1400	X					X					8					X	X	X	X	X	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: seprregion@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	11-14-18	0730	Denise Woodin	11-14-18	1100
Denise Woodin	11-14-18	1330	[illegible]	11/14/18	13:30
[illegible]	11/14/18	17:50			
			[illegible]	11/14/18	17:50

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other ✓

Temperature upon receipt 0.8-1.1 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233333

Group Number(s): 209425

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/14/2018 17:50
Number of Packages:	2	Number of Projects:	5
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	No
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 Conrad Burkholder (12671) at 19:39 on 11/14/2018

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	DT42-01	0.8	DT	Wet	Y	Bagged	N
2	DT42-01	1.1	DT	Wet	Y	Bagged	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label		Comments
TW-05	11/13/2018 11:00	All bottles	Use 11:05 per COC per A. Bell LF593 11/16/18

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:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: November 27, 2018 12:36

Project: NRG PRGS

Account #: 08390
Group Number: 2009426
PO Number: 0402919-51-206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

To view our laboratory's current scopes of accreditation please go to http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . Historical copies may be requested through your project manager.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
RW-117S Grab Groundwater	11/12/2018 13:50	9900166
RW-116S Grab Groundwater	11/12/2018 14:00	9900167
RW-25S Grab Groundwater	11/12/2018 14:10	9900168
RW-05S Grab Groundwater	11/12/2018 14:35	9900169

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

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Analysis Report

Sample Description: **RW-117S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 13:50

GES, Inc.
ELLE Sample #: GW 9900166
ELLE Group #: 2009426
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,900	53	1
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	N.D.	1.7	1

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	183230014A	11/21/2018 01:33	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 05:40	Jeremy L Bolf	1

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Analysis Report

Sample Description: **RW-116S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:00

GES, Inc.
ELLE Sample #: GW 9900167
ELLE Group #: 2009426
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	3,300	53	1
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	N.D.	1.7	1

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	183230014A	11/21/2018 01:56	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 03:55	Jeremy L Bolf	1

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Analysis Report

Sample Description: **RW-25S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: GW 9900168
ELLE Group #: 2009426
Matrix: Groundwater

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	0.8 J	0.2	1
10945	Ethylbenzene	100-41-4	0.3 J	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	110,000	530	10
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.				
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	112	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 15:56	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 15:55	Alexander D Sechrist	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 21:05	Thomas C Wildermuth	10
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18328003101A	11/24/2018 13:11	Kenneth A Bell	1

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Analysis Report

Sample Description: **RW-05S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:35

GES, Inc.
ELLE Sample #: GW 9900169
ELLE Group #: 2009426
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	15,000	53	1
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	6.8	1.7	1

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	183230014A	11/21/2018 02:42	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 09:15	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/27/2018 12:36

Group Number: 2009426

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: Z183242AA	Sample number(s): 9900168	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Naphthalene	N.D.	4
Toluene	N.D.	0.2
Xylene (Total)	N.D.	0.5
Batch number: 183230014A	Sample number(s): 9900166-9900169	
DRO C10-C28	N.D.	53
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 18320002205A	Sample number(s): 9900166-9900167	
Total Alkalinity to pH 4.5	N.D.	1.7
Batch number: 18324008206A	Sample number(s): 9900169	
Total Alkalinity to pH 4.5	N.D.	1.7
Batch number: 18328003101A	Sample number(s): 9900168	
Total Alkalinity to pH 4.5	N.D.	1.7

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: Z183242AA	Sample number(s): 9900168								
Benzene	20	20.89			104		80-120		
Ethylbenzene	20	20.14			101		80-120		
Naphthalene	20	19.5			98		53-124		
Toluene	20	20.77			104		80-120		
Xylene (Total)	60	60.62			101		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 183230014A	Sample number(s): 9900166-9900169								
DRO C10-C28	2782.29	2522.7	2741.11	2354.69	91	86	27-118	7	20
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 11/27/2018 12:36

Group Number: 2009426

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l as CaCO3	LCS Conc mg/l as CaCO3	LCSD Spike Added mg/l as CaCO3	LCSD Conc mg/l as CaCO3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18320002205A	Sample number(s): 9900166-9900167								
Total Alkalinity to pH 4.5	188	185.16			98		77-109		
Batch number: 18324008206A	Sample number(s): 9900169								
Total Alkalinity to pH 4.5	188	187.34	188	190.68	100	101	77-109	2	5
Batch number: 18328003101A	Sample number(s): 9900168								
Total Alkalinity to pH 4.5	188	166.94			89		77-109		

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: BTEX,Naph
Batch number: Z183242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9900168	109	100	102	99
Blank	110	100	103	97
LCS	106	100	102	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: DRO micro-ext 8015B
Batch number: 183230014A

	Orthoterphenyl
9900166	112
9900167	100
9900168	286*
9900169	83
Blank	97
LCS	93
LCSD	92
Limits:	62-128

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8340 Group # 2009426 Sample # 9900166-69

Client:	Groundwater & Env. Services, Inc.
Project Name/#:	NRG PRGS
Site ID #:	NRG PRGS
Project Manager:	Anne Ashley Bell
P.O. #:	0402919/51/206
Sampler:	Amelia Ryan
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	Soil	Ground Water	Potable Water	Surface Water	NPDES Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)		Remarks
												Preservation Codes	H				H							
RW-11S	11/12/18	1350	X				X					3	X				X							
RW-11GS	11/12/18	1400	X				X					3	X				X							
RW-25S	11/12/18	1410	X				X					6	X			X	X							
RW-05S	11/12/18	1435	X				X					3	X				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: seprregion@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]	11/12/18	1550	Denise Wooding	11-13-18	1100
Denise Wooding	11-14-18	1330	[signature]	11/14/18	12:30
[signature]	11/14/18	17:50			
			[signature]	11/14/18	17:50

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other ✓

Temperature upon receipt 0.8-1.1 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233333

Group Number(s): 204426

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/14/2018 17:50
Number of Packages:	2	Number of Projects:	5
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	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 Conrad Burkholder (12671) at 19:39 on 11/14/2018

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	DT42-01	0.8	DT	Wet	Y	Bagged	N
2	DT42-01	1.1	DT	Wet	Y	Bagged	N

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Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: November 21, 2018 12:51

Project: NRG PRGS

Account #: 08390
Group Number: 2009427
PO Number: 0402919-51-206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
TW-14 Grab Groundwater	11/12/2018 11:10	9900170
RW-05 Grab Groundwater	11/12/2018 14:00	9900171
MW-25S Grab Groundwater	11/12/2018 14:15	9900172
MW-25/RW-25 Grab Groundwater	11/12/2018 14:40	9900173

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

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Analysis Report

Sample Description: **TW-14 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 11:10

GES, Inc.
ELLE Sample #: GW 9900170
ELLE Group #: 2009427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 16:21	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 16:20	Alexander D Sechrist	1

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Analysis Report

Sample Description: **RW-05 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: GW 9900171
ELLE Group #: 2009427
Matrix: Groundwater

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:00

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	1	5
10945	Ethylbenzene	100-41-4	N.D.	1	5
10945	Naphthalene	91-20-3	N.D.	20	5
10945	Toluene	108-88-3	N.D.	1	5
10945	Xylene (Total)	1330-20-7	N.D.	3	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	7,000	53	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	41.2	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 16:45	Alexander D Sechrist	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 16:44	Alexander D Sechrist	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 03:05	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 08:48	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-25S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: GW 9900172
ELLE Group #: 2009427
Matrix: Groundwater

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	0.3 J	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	11,000	53	1
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	15.2	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 17:09	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 17:08	Alexander D Sechrist	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 03:28	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18324008206A	11/21/2018 09:00	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-25/RW-25 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:40

GES, Inc.
ELLE Sample #: GW 9900173
ELLE Group #: 2009427
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,500	53	1
Wet Chemistry	**SM 2320 B-2011**		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	40.8	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183242AA	11/20/2018 17:34	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183242AA	11/20/2018 17:33	Alexander D Sechrist	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 03:52	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 04:34	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 11/21/2018 12:51

Group Number: 2009427

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: Z183242AA	Sample number(s): 9900170-9900173	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Naphthalene	N.D.	4
Toluene	N.D.	0.2
Xylene (Total)	N.D.	0.5
Batch number: 183230014A	Sample number(s): 9900171-9900173	
DRO C10-C28	N.D.	53
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 18320002205A	Sample number(s): 9900173	
Total Alkalinity to pH 4.5	N.D.	1.7
Batch number: 18324008206A	Sample number(s): 9900171-9900172	
Total Alkalinity to pH 4.5	N.D.	1.7

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: Z183242AA	Sample number(s): 9900170-9900173								
Benzene	20	20.89			104		80-120		
Ethylbenzene	20	20.14			101		80-120		
Naphthalene	20	19.5			98		53-124		
Toluene	20	20.77			104		80-120		
Xylene (Total)	60	60.62			101		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 183230014A	Sample number(s): 9900171-9900173								
DRO C10-C28	2782.29	2522.7	2741.11	2354.69	91	86	27-118	7	20
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 18320002205A	Sample number(s): 9900173								
Total Alkalinity to pH 4.5	188	185.16			98		77-109		

*- 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.

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Quality Control Summary

Client Name: GES, Inc.
Reported: 11/21/2018 12:51

Group Number: 2009427

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l as CaCO3	LCS Conc mg/l as CaCO3	LCSD Spike Added mg/l as CaCO3	LCSD Conc mg/l as CaCO3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18324008206A	Sample number(s): 9900171-9900172								
Total Alkalinity to pH 4.5	188	187.34	188	190.68	100	101	77-109	2	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: BTEX,Naph
Batch number: Z183242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9900170	109	99	102	98
9900171	108	101	102	100
9900172	109	101	102	101
9900173	108	100	103	101
Blank	110	100	103	97
LCS	106	100	102	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: DRO micro-ext 8015B
Batch number: 183230014A

	Orthoterphenyl
9900171	137*
9900172	72
9900173	107
Blank	97
LCS	93
LCSD	92
Limits:	62-128

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8340 Group # 2009427 Sample # 940170-73

Client:	Groundwater & Env. Services, Inc.
Project Name/#:	NRG PRGS
Site ID #:	NRG PRGS
Project Manager:	Anne Ashley Bell
P.O. #:	0402919/51/206
Sampler:	Jeff Plummer
PWSID #:	
Phone #:	800-220-3606 x 3704
Quote #:	
State where sample(s) were collected:	1400 North Royal St, Alexandria, VA

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

Analyses Requested / Preservation Codes

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)	Remarks
TW-14	11-12-18	1110	X		3				X							
RW-05	↓	1400	X		6	X			X	X						
MW-25S	↓	1415	X		6	X			X	X						
MW-25/RW-25	11-12-18	1440	X		6	X			X	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: seprregion@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	11-12-18	1500	[illegible]	11/12/18	1580
[illegible]	11/12/18	1550	Denise Woodin	11-13-18	1100
Denise Woodin	11-14-18	1330	[illegible]	11/14/18	15:30
[illegible]	11/14/18	17:30			
			[illegible]	11/14/18	17:50

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ✓

Temperature upon receipt 0.8-1.1 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233333

Group Number(s): 2009427

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/14/2018 17:50
Number of Packages:	2	Number of Projects:	5
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	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 Conrad Burkholder (12671) at 19:39 on 11/14/2018

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	DT42-01	0.8	DT	Wet	Y	Bagged	N
2	DT42-01	1.1	DT	Wet	Y	Bagged	N

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Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: November 25, 2018 12:07

Project: NRG PRGS

Account #: 08390
Group Number: 2009428
PO Number: 0402919-51-206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
TW-07 Grab Groundwater	11/12/2018 14:50	9900174

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

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Analysis Report

Sample Description: **TW-07 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:50

GES, Inc.
ELLE Sample #: GW 9900174
ELLE Group #: 2009428
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	431	15.0	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	21.0	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	18320120209B	11/18/2018 01:30	Hallie A Burnett	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18320002205A	11/17/2018 03:29	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 11/25/2018 12:07

Group Number: 2009428

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
	mg/l	mg/l
Batch number: 18320120209B	Sample number(s): 9900174	
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 18320002205A	Sample number(s): 9900174	
Total Alkalinity to pH 4.5	N.D.	1.7

LCS/LCSD

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: 18320120209B	Sample number(s): 9900174								
Sulfate	7.50	7.87			105		90-110		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 18320002205A	Sample number(s): 9900174								
Total Alkalinity to pH 4.5	188	185.16			98		77-109		

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 2009428 Sample # 9900174

Client:	Groundwater & Env. Services, Inc.
Project Name/#:	NRG PRGS
Site ID #:	NRG PRGS
Project Manager:	Anne Ashley Bell
P.O. #:	0402919/51/206
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	Soil	Ground	Potable	Surface	NPDES	Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)	Remarks
TW-07	11-12-18	1450	X				☑			☑			2					X				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: seprregion@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	11-14-18	0730	Denise Wadding	11-14-18	1100
Denise Wadding	11-14-18	1330	[illegible]	11/14/18	13:30
[illegible]	11/14/18	17:50			
			[illegible]	11/14/18	17:50

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other ✓

Temperature upon receipt 0.8-1.1 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233333

Group Number(s): 209428

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/14/2018 17:50
Number of Packages:	2	Number of Projects:	5
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	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 Conrad Burkholder (12671) at 19:39 on 11/14/2018

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	DT42-01	0.8	DT	Wet	Y	Bagged	N
2	DT42-01	1.1	DT	Wet	Y	Bagged	N

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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:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: December 03, 2018 06:28

Project: NRG PRGS

Account #: 08390
Group Number: 2009903
PO Number: 0402919-51-206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-16 Grab Groundwater	11/14/2018 10:30	9902321
MW-100S Grab Groundwater	11/14/2018 10:55	9902322
MW-100 Grab Groundwater	11/14/2018 11:25	9902323
MW-106 Grab Groundwater	11/14/2018 12:30	9902324
MW-107 Grab Groundwater	11/14/2018 12:45	9902325
MW-108 Grab Groundwater	11/14/2018 12:55	9902326
MW-122 Grab Groundwater	11/14/2018 13:20	9902327
RW-1 Grab Groundwater	11/14/2018 13:35	9902328

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

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Analysis Report

Sample Description: **MW-16 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 10:30

GES, Inc.
ELLE Sample #: GW 9902321
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	230	53	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183251AA	11/21/2018 16:10	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183251AA	11/21/2018 16:09	Alexander D Sechrist	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 05:01	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1

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Analysis Report

Sample Description: **MW-100S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 10:55

GES, Inc.
ELLE Sample #: GW 9902322
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	51	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	N.D.	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.20	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	256	15.0	50
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.47	0.040	1
00219	Nitrite Nitrogen		14797-65-0	0.038 J	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	5.61	0.0750	5
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	84.2	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 11:53	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 05:24	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184802	11/28/2018 14:25	Patrick J Engle	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184802	11/26/2018 15:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18327520117B	11/23/2018 21:25	Ashlynn M Cornelius	50
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 12:46	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101B	11/16/2018 07:52	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:45	Joseph E McKenzie	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/28/2018 01:01	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-100 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 11:25

GES, Inc.
ELLE Sample #: GW 9902323
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	5.1	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	N.D.	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	0.978	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	55.3	1.5	5
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	2.4	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	0.112	0.0150	1
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	25.8	1.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 12:28	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 05:47	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184802	11/28/2018 14:27	Patrick J Engle	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184802	11/26/2018 15:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18327520117B	11/28/2018 16:17	Samuel J Weaver	5
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 12:52	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101B	11/16/2018 07:51	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:32	Joseph E McKenzie	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/28/2018 00:55	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-106 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:30

GES, Inc.
ELLE Sample #: GW 9902324
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**	**ug/l**	**ug/l**	
07105	Methane	74-82-8	12	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	1.77	0.0011	1
Wet Chemistry		**EPA 300.0**	**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	992	150	500
		EPA 353.2	**mg/l**	**mg/l**	
00220	Nitrate Nitrogen	14797-55-8	0.42	0.040	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	1
		SM 3500-Fe B-2011	**mg/l**	**mg/l**	
14855	Ferrous Iron	n.a.	5.07	0.0750	5
		SM 2320 B-2011	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	N.D.	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183251AA	11/21/2018 16:34	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183251AA	11/21/2018 16:33	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 12:46	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 06:11	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184802	11/28/2018 14:30	Patrick J Engle	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184802	11/26/2018 15:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18327520117B	11/23/2018 22:33	Ashlynn M Cornelius	500
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 12:54	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101B	11/16/2018 07:45	Brianna A Poole	1

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Analysis Report

Sample Description: **MW-106 Grab Groundwater**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:30

GES, Inc.
ELLE Sample #: GW 9902324
ELLE Group #: 2009903
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:44	Joseph E McKenzie	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/28/2018 00:25	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-107 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:45

GES, Inc.
ELLE Sample #: GW 9902325
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	400	53	1

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	183230014A	11/21/2018 06:34	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1

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Analysis Report

Sample Description: **MW-108 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:55

GES, Inc.
ELLE Sample #: GW 9902326
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1

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	183230014A	11/21/2018 06:57	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1

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Analysis Report

Sample Description: **MW-122 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 13:20

GES, Inc.
ELLE Sample #: GW 9902327
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1
10945	Ethylbenzene	100-41-4	0.9 J	0.2	1
10945	Naphthalene	91-20-3	N.D.	4	1
10945	Toluene	108-88-3	N.D.	0.2	1
10945	Xylene (Total)	1330-20-7	1 J	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**	**ug/l**	**ug/l**	
07105	Methane	74-82-8	87	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	6,300	53	1
Metals		**SW-846 6010B**	**mg/l**	**mg/l**	
07058	Manganese	7439-96-5	11.7	0.0011	1
Wet Chemistry		**EPA 300.0**	**mg/l**	**mg/l**	
00228	Sulfate	14808-79-8	273	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 3500-Fe B-2011	**mg/l**	**mg/l**	
14855	Ferrous Iron	n.a.	33.9	0.300	20
		SM 2320 B-2011	**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5	n.a.	346	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183251AA	11/21/2018 16:59	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183251AA	11/21/2018 16:58	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 13:03	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 07:20	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184802	11/28/2018 14:33	Patrick J Engle	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184802	11/26/2018 15:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18327520117B	11/23/2018 22:51	Ashlynn M Cornelius	50
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 12:55	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101A	11/16/2018 07:41	Brianna A Poole	1

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Analysis Report

Sample Description: **MW-122 Grab Groundwater**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 13:20

GES, Inc.
ELLE Sample #: GW 9902327
ELLE Group #: 2009903
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 13:09	Joseph E McKenzie	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/28/2018 00:42	Jeremy L Bolf	1

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Analysis Report

Sample Description: **RW-1 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 13:35

GES, Inc.
ELLE Sample #: GW 9902328
ELLE Group #: 2009903
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	7,100	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	86.9	15.0	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	207	1.7	1

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	183230014A	11/21/2018 07:43	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	18327520115B	11/28/2018 10:30	Samuel J Weaver	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/28/2018 00:20	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 06:28

Group Number: 2009903

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: Z183251AA	Sample number(s): 9902321,9902324,9902327	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Naphthalene	N.D.	4
Toluene	N.D.	0.2
Xylene (Total)	N.D.	0.5
Batch number: 183200014A	Sample number(s): 9902322-9902324,9902327	
Methane	N.D.	3.0
Batch number: 183230014A	Sample number(s): 9902321-9902328	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 183300184802	Sample number(s): 9902322-9902324,9902327	
Manganese	0.0013 J	0.0011
Batch number: 18320105101A	Sample number(s): 9902327	
Nitrite Nitrogen	N.D.	0.015
Batch number: 18320105101B	Sample number(s): 9902322-9902324	
Nitrite Nitrogen	N.D.	0.015
Batch number: 18324106101A	Sample number(s): 9902322-9902324,9902327	
Nitrate Nitrogen	N.D.	0.040
Batch number: 18325127102A	Sample number(s): 9902322-9902324,9902327	
Ferrous Iron	N.D.	0.0150
Batch number: 18327520115B	Sample number(s): 9902328	
Sulfate	N.D.	0.30
Batch number: 18327520117B	Sample number(s): 9902322-9902324,9902327	
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 18331003103A	Sample number(s): 9902322-9902324,9902327-9902328	
Total Alkalinity to pH 4.5	N.D.	1.7

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 06:28

Group Number: 2009903

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: Z183251AA	Sample number(s): 9902321,9902324,9902327								
Benzene	20	20.4			102		80-120		
Ethylbenzene	20	19.96			100		80-120		
Naphthalene	20	17.28			86		53-124		
Toluene	20	20.36			102		80-120		
Xylene (Total)	60	59.6			99		80-120		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 183200014A	Sample number(s): 9902322-9902324,9902327								
Methane	59.83	64.64	59.83	65.54	108	110	85-115	1	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 183230014A	Sample number(s): 9902321-9902328								
DRO C10-C28	2782.29	2522.7	2741.11	2354.69	91	86	27-118	7	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 183300184802	Sample number(s): 9902322-9902324,9902327								
Manganese	0.500	0.510			102		90-112		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 18320105101A	Sample number(s): 9902327								
Nitrite Nitrogen	0.700	0.657			94		90-110		
Batch number: 18320105101B	Sample number(s): 9902322-9902324								
Nitrite Nitrogen	0.700	0.657			94		90-110		
Batch number: 18324106101A	Sample number(s): 9902322-9902324,9902327								
Nitrate Nitrogen	2.50	2.57			103		90-110		
Batch number: 18325127102A	Sample number(s): 9902322-9902324,9902327								
Ferrous Iron	1.00	1.05			105		90-110		
Batch number: 18327520115B	Sample number(s): 9902328								
Sulfate	7.50	7.35			98		90-110		
Batch number: 18327520117B	Sample number(s): 9902322-9902324,9902327								
Sulfate	7.50	7.35			98		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 18331003103A	Sample number(s): 9902322-9902324,9902327-9902328								
Total Alkalinity to pH 4.5	188	166.52			89		77-109		

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 06:28

Group Number: 2009903

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: 18324106101A	Sample number(s): 9902322-9902324,9902327 UNSPK: 9902322									
Nitrate Nitrogen	0.505	1.00	1.53			103		90-110		

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: 18324106101A	Sample number(s): 9902322-9902324,9902327 BKG: 9902322			
Nitrate Nitrogen	0.505	0.499	1 (1)	10

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: BTEX,Naph
Batch number: Z183251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902321	109	100	102	98
9902324	109	100	103	98
9902327	108	100	103	101
Blank	109	100	102	97
LCS	107	100	103	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Methane
Batch number: 183200014A

	Propene
9902322	67
9902323	65
9902324	76
9902327	67
Blank	102
LCS	99

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/03/2018 06:28

Group Number: 2009903

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.

Analysis Name: Methane
Batch number: 183200014A

	Propene
LCSD	102
Limits:	46-135

Analysis Name: DRO micro-ext 8015B
Batch number: 183230014A

	Orthoterphenyl
9902321	102
9902322	93
9902323	94
9902324	98
9902325	94
9902326	97
9902327	118
9902328	111
Blank	97
LCS	93
LCSD	92
Limits:	62-128

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8340 Group # 209903 Sample # 9902321-28

Client: Groundwater & Env. Services, Inc.

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

Project Manager: Anne Ashley Bell | P.O. #: 0402919/51/206

Sampler: Amelia Ryan | 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	Sediment	Soil	Ground Water	Surface Water	Potable Water	NPDES Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500-Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)		Remarks
												Preservation Codes	H			H		S	N	H		H		
MW-16	11/14/18	1030	X				X					5	X			X								
MW-100S		1055										10	X				X	X	X	X	X	X		
MW-100		1125										10	X				X	X	X	X	X	X		
MW-106		1230										13	X			X	X	X	X	X	X	X		
MW-107		1245										2	X											
MW-108		1255										2	X											
MW-122		1320										13	X			X	X	X	X	X	X	X		
~~MW~~ RW-1		1335										4	X				X				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: seprregion@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]	11/14/18	1650	Denise Woodring	11-15-18	1100
Denise Woodring	11-15-18	1225	[signature]	11/15/18	1225
[signature]		09:31			
			[signature]	11-15-18	1935

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.8-1.6 °C

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

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Sample Administration Receipt Documentation Log

Doc Log ID: 233468

Group Number(s): 2W9903

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/15/2018 19:35
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	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 Melvin Sanchez (8943) at 20:38 on 11/15/2018

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	DT131	0.8	DT	Wet	Y	Bagged	N
2	DT131	1.6	DT	Wet	Y	Bagged	N

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Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: December 06, 2018 07:27

Project: NRG PRGS

Account #: 08390
Group Number: 2009904
PO Number: 0402919-51-206
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
RW-28S Grab Groundwater	11/14/2018 12:00	9902329
RW-30S Grab Groundwater	11/14/2018 12:10	9902330
MW-31/RW-31 Grab Groundwater	11/14/2018 12:20	9902331
MW-33 Grab Groundwater	11/14/2018 12:30	9902332
MW-27 Grab Groundwater	11/14/2018 12:40	9902333
MW-72S Grab Groundwater	11/14/2018 12:50	9902334
MW-72/RW-72 Grab Groundwater	11/14/2018 13:00	9902335
MW-121 Grab Groundwater	11/14/2018 13:30	9902336

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

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Analysis Report

Sample Description: **RW-28S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:00

GES, Inc.
ELLE Sample #: GW 9902329
ELLE Group #: 2009904
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	340	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	887	60.0	200
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	145	1.7	1

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	183230014A	11/21/2018 08:06	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	18327520115B	11/23/2018 23:53	Ashlynn M Cornelius	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/27/2018 22:33	Jeremy L Bolf	1

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Analysis Report

Sample Description: **RW-30S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:10

GES, Inc.
ELLE Sample #: GW 9902330
ELLE Group #: 2009904
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	240	53	1

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	183230014A	11/21/2018 08:29	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1

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Analysis Report

Sample Description: **MW-31/RW-31 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:20

GES, Inc.
ELLE Sample #: GW 9902331
ELLE Group #: 2009904
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	240	53	1

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	183230014A	11/21/2018 09:39	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1

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Analysis Report

Sample Description: **MW-33 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:30

GES, Inc.
ELLE Sample #: GW 9902332
ELLE Group #: 2009904
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	1

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	183230014A	11/21/2018 10:02	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1

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Analysis Report

Sample Description: **MW-27 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:40

GES, Inc.
ELLE Sample #: GW 9902333
ELLE Group #: 2009904
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene		71-43-2	N.D.	0.2	1
10945	Ethylbenzene		100-41-4	N.D.	0.2	1
10945	Naphthalene		91-20-3	N.D.	4	1
10945	Toluene		108-88-3	N.D.	0.2	1
10945	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	560	15	5
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	1,600	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	14.2	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	1,020	150	500
		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 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	53.5	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	72.2	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183251AA	11/21/2018 17:23	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183251AA	11/21/2018 17:22	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183200014A	11/20/2018 12:27	Johanna C Kennedy	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230014A	11/21/2018 10:25	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230014A	11/20/2018 07:00	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184802	11/28/2018 14:36	Patrick J Engle	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184802	11/26/2018 15:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18327520115B	11/24/2018 00:10	Ashlynn M Cornelius	500
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 12:57	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101B	11/16/2018 07:42	Brianna A Poole	1

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Analysis Report

Sample Description: **MW-27 Grab Groundwater**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:40

GES, Inc.
ELLE Sample #: GW 9902333
ELLE Group #: 2009904
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127103A	11/21/2018 13:01	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103B	11/27/2018 22:54	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-72S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: GW 9902334
ELLE Group #: 2009904
Matrix: Groundwater

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:50

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene		71-43-2	N.D.	0.2	1
10945	Ethylbenzene		100-41-4	N.D.	0.2	1
10945	Naphthalene		91-20-3	N.D.	4	1
10945	Toluene		108-88-3	N.D.	0.2	1
10945	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	240	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	3,500	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	14.1	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	1,480	150	500
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.22	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	30.2	0.300	20
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183251AA	11/21/2018 17:47	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183251AA	11/21/2018 17:46	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 13:39	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230015A	11/21/2018 12:44	Marisa Englebright	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230015A	11/20/2018 07:05	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184802	11/28/2018 14:38	Patrick J Engle	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184802	11/26/2018 15:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	18327520115B	11/24/2018 00:27	Ashlynn M Cornelius	500
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 12:59	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101B	11/16/2018 07:47	Brianna A Poole	1

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Analysis Report

Sample Description: **MW-72S Grab Groundwater**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 12:50

GES, Inc.
ELLE Sample #: GW 9902334
ELLE Group #: 2009904
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127103A	11/21/2018 13:11	Joseph E McKenzie	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/28/2018 01:06	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-72/RW-72 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 13:00

GES, Inc.
ELLE Sample #: GW 9902335
ELLE Group #: 2009904
Matrix: Groundwater

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene		71-43-2	0.3 J	0.2	1
10945	Ethylbenzene		100-41-4	0.7 J	0.2	1
10945	Naphthalene		91-20-3	12	4	1
10945	Toluene		108-88-3	N.D.	0.2	1
10945	Xylene (Total)		1330-20-7	8	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	390	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	2,600	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	25.2	0.0055	5
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	1,130	150	500
		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 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	10.5	0.150	10
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183251AA	11/21/2018 18:12	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183251AA	11/21/2018 18:11	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 13:57	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230015A	11/21/2018 13:07	Marisa Englebright	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230015A	11/20/2018 07:05	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184803	11/29/2018 11:02	Lisa J Cooke	5
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184803	11/27/2018 05:45	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	18327520115B	11/24/2018 00:43	Ashlynn M Cornelius	500
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 13:05	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101B	11/16/2018 07:46	Brianna A Poole	1

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Analysis Report

Sample Description: **MW-72/RW-72 Grab Groundwater**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 13:00

GES, Inc.
ELLE Sample #: GW 9902335
ELLE Group #: 2009904
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:58	Joseph E McKenzie	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003206B	11/28/2018 08:32	Jeremy L Bolf	1

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Analysis Report

Sample Description: **MW-121 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: GW 9902336
ELLE Group #: 2009904
Matrix: Groundwater

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 13:30

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene		71-43-2	N.D.	0.2	1
10945	Ethylbenzene		100-41-4	N.D.	0.2	1
10945	Naphthalene		91-20-3	N.D.	4	1
10945	Toluene		108-88-3	N.D.	0.2	1
10945	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Miscellaneous		**RSKSOP-175 modified**		**ug/l**	**ug/l**	
07105	Methane		74-82-8	60	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	7,900	53	1

The recovery for the sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following 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.

Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	12.1	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	241	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	0.092	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	45.8	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	208	1.7	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	BTEX,Naph	SW-846 8260B	1	Z183251AA	11/21/2018 18:36	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183251AA	11/21/2018 18:35	Alexander D Sechrist	1
07105	Methane	RSKSOP-175 modified	1	183200014A	11/16/2018 14:14	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	183230015A	11/21/2018 13:30	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183230015A	11/20/2018 07:05	Maria Davenport	1
07058	Manganese	SW-846 6010B	1	183300184803	11/27/2018 21:28	Cindy M Gehman	1

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Analysis Report

Sample Description: **MW-121 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/15/2018 19:35
Collection Date/Time: 11/14/2018 13:30

GES, Inc.
ELLE Sample #: GW 9902336
ELLE Group #: 2009904
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	183300184803	11/27/2018 05:45	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	18327520115B	11/28/2018 10:48	Samuel J Weaver	50
00220	Nitrate Nitrogen	EPA 353.2	1	18324106101A	11/20/2018 13:06	Joseph E McKenzie	1
00219	Nitrite Nitrogen	EPA 353.2	1	18320105101B	11/16/2018 07:50	Brianna A Poole	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	18325127102A	11/21/2018 12:56	Joseph E McKenzie	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	18331003103A	11/28/2018 00:49	Jeremy L Bolf	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/06/2018 07:27

Group Number: 2009904

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: Z183251AA	Sample number(s): 9902333-9902336	
Benzene	N.D.	0.2
Ethylbenzene	N.D.	0.2
Naphthalene	N.D.	4
Toluene	N.D.	0.2
Xylene (Total)	N.D.	0.5
Batch number: 183200014A	Sample number(s): 9902333-9902336	
Methane	N.D.	3.0
Batch number: 183230014A	Sample number(s): 9902329-9902333	
DRO C10-C28	N.D.	53
Batch number: 183230015A	Sample number(s): 9902334-9902336	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 183300184802	Sample number(s): 9902333-9902334	
Manganese	0.0013 J	0.0011
Batch number: 183300184803	Sample number(s): 9902335-9902336	
Manganese	N.D.	0.0011
Batch number: 18320105101B	Sample number(s): 9902333-9902336	
Nitrite Nitrogen	N.D.	0.015
Batch number: 18324106101A	Sample number(s): 9902333-9902336	
Nitrate Nitrogen	N.D.	0.040
Batch number: 18325127102A	Sample number(s): 9902335-9902336	
Ferrous Iron	N.D.	0.0150
Batch number: 18325127103A	Sample number(s): 9902333-9902334	
Ferrous Iron	N.D.	0.0150
Batch number: 18327520115B	Sample number(s): 9902329,9902333-9902336	
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 18331003103A	Sample number(s): 9902329,9902334,9902336	
Total Alkalinity to pH 4.5	N.D.	1.7
Batch number: 18331003103B	Sample number(s): 9902333	
Total Alkalinity to pH 4.5	N.D.	1.7

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/06/2018 07:27

Group Number: 2009904

Method Blank (continued)

Analysis Name	Result mg/l as CaCO3	MDL mg/l as CaCO3
Batch number: 18331003206B	Sample number(s): 9902335	
Total Alkalinity to pH 4.5	N.D.	1.7

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: Z183251AA	Sample number(s): 9902333-9902336								
Benzene	20	20.4			102		80-120		
Ethylbenzene	20	19.96			100		80-120		
Naphthalene	20	17.28			86		53-124		
Toluene	20	20.36			102		80-120		
Xylene (Total)	60	59.6			99		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 183200014A	Sample number(s): 9902333-9902336								
Methane	59.83	64.64	59.83	65.54	108	110	85-115	1	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 183230014A	Sample number(s): 9902329-9902333								
DRO C10-C28	2782.29	2522.7	2741.11	2354.69	91	86	27-118	7	20
Batch number: 183230015A	Sample number(s): 9902334-9902336								
DRO C10-C28	2700	2700	2700	2600	100	96	27-118	4	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 183300184802	Sample number(s): 9902333-9902334								
Manganese	0.500	0.510			102		90-112		
Batch number: 183300184803	Sample number(s): 9902335-9902336								
Manganese	0.500	0.518			104		90-112		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 18320105101B	Sample number(s): 9902333-9902336								
Nitrite Nitrogen	0.700	0.657			94		90-110		
Batch number: 18324106101A	Sample number(s): 9902333-9902336								
Nitrate Nitrogen	2.50	2.57			103		90-110		
Batch number: 18325127102A	Sample number(s): 9902335-9902336								
Ferrous Iron	1.00	1.05			105		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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/06/2018 07:27

Group Number: 2009904

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: 18325127103A	Sample number(s): 9902333-9902334								
Ferrous Iron	1.00	1.08			108		90-110		
Batch number: 18327520115B	Sample number(s): 9902329,9902333-9902336								
Sulfate	7.50	7.35			98		90-110		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 18331003103A	Sample number(s): 9902329,9902334,9902336								
Total Alkalinity to pH 4.5	188	166.52			89		77-109		
Batch number: 18331003103B	Sample number(s): 9902333								
Total Alkalinity to pH 4.5	188	166.52			89		77-109		
Batch number: 18331003206B	Sample number(s): 9902335								
Total Alkalinity to pH 4.5	188	186			99		77-109		

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: 18320105101B	Sample number(s): 9902333-9902336 UNSPK: 9902333									
Nitrite Nitrogen	N.D.	0.200	0.181			91		90-110		
Batch number: 18325127103A	Sample number(s): 9902333-9902334 UNSPK: 9902334									
Ferrous Iron	30.18	1.00	30.25	1.00	30.17	7 (2)	0 (2)	90-110	0	10
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 18331003103A	Sample number(s): 9902329,9902334,9902336 UNSPK: 9902329									
Total Alkalinity to pH 4.5	145.35	188	225.88			43*		77-109		
Batch number: 18331003103B	Sample number(s): 9902333 UNSPK: 9902329									
Total Alkalinity to pH 4.5	145.35	188	225.88			43*		77-109		

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/06/2018 07:27

Group Number: 2009904

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: 18320105101B	Sample number(s): 9902333-9902336 BKG: 9902333			
Nitrite Nitrogen	N.D.	N.D.	0 (1)	20
Batch number: 18325127103A	Sample number(s): 9902333-9902334 BKG: 9902334			
Ferrous Iron	30.18	30.15	0	10
	mg/l as CaCO3	mg/l as CaCO3		
Batch number: 18331003103A	Sample number(s): 9902329,9902334,9902336 BKG: 9902329			
Total Alkalinity to pH 4.5	145.35	145.61	0	5
Batch number: 18331003103B	Sample number(s): 9902333 BKG: 9902333			
Total Alkalinity to pH 4.5	72.17	71.95	0	5
Batch number: 18331003206B	Sample number(s): 9902335 BKG: 9902335			
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.

Analysis Name: BTEX,Naph
Batch number: Z183251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9902333	108	99	101	98
9902334	110	100	102	98
9902335	107	99	103	101
9902336	107	100	102	101
Blank	109	100	102	97
LCS	107	100	103	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Methane
Batch number: 183200014A

	Propene
9902333	87
9902334	68
9902335	73
9902336	79
Blank	102
LCS	99

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 12/06/2018 07:27

Group Number: 2009904

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.

Analysis Name: Methane
Batch number: 183200014A

	Propene
LCSD	102
Limits:	46-135

Analysis Name: DRO micro-ext 8015B
Batch number: 183230014A

	Orthoterphenyl
9902329	99
9902330	111
9902331	105
9902332	104
9902333	101
Blank	97
LCS	93
LCSD	92
Limits:	62-128

Analysis Name: DRO micro-ext 8015B
Batch number: 183230015A

	Orthoterphenyl
9902334	123
9902335	120
9902336	34*
Blank	97
LCS	104
LCSD	97
Limits:	62-128

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 200904 Sample # 9902329-36

Client: Groundwater & Env. Services, Inc.	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS
Project Manager: Anne Ashley Bell	P.O. #: 0402919/51/206
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: Water (Potable / Ground / NPDES / Surface)	Matrix: Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	TPH-DRO C10-C28 (SW-846 8015B) with silica gel cleanup (Method 3630C)	MADEP EPH REV 1.1 SW846 3510C	BTEX Naphthalene (8260)	Alkalinity (SM 2320B)	Nitrate NO3 -1 & Nitrite NO-2(EPA 353.2)	Manganese (6010)	Ferrous Iron Fe2+ (SM 3500 Fe B modified-1997)	Sulfate SO4 2- (EPA 300.0)	Methane (RSKSOP-175 modified)		Remarks
RW-28S	11-14-18	1200	X				X		4	X				X				X			
RW-30S	↓	1210	↓				↓		2	X											
MW-31/RW-31		1220							2	X											
MW-33		1230							2	X											
MW-27		1240							13	X			X	X	X	X	X	X	X		
MW-72S		1250							13	X			X	X	X	X	X	X	X		
MW-72/RW-72	↓	1300	↓				↓		13	X			X	X	X	X	X	X	X		
MW-121	11-14-18	1330	X				X		13	X			X	X	X	X	X	X	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: seprregion@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	11-15-18	0755	Denise Woodin	11-15-18	1100
Denise Woodin	11-15-18	1225	[illegible]	11/15/18	[illegible]
[illegible]	11/15/18	19:35			

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.8-1.6°C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233468

Group Number(s): 2009904

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/15/2018 19:35
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	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 Melvin Sanchez (8943) at 20:38 on 11/15/2018

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	DT131	0.8	DT	Wet	Y	Bagged	N
2	DT131	1.6	DT	Wet	Y	Bagged	N

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Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GeoSyntec Consultants
4th Floor
10211 Wincopin Circle
Columbia MD 21044

Report Date: November 27, 2018 11:49

Project: NRG PRGS

Account #: 09811
Group Number: 2009413
SDG: PRG19
PO Number: MEM1108A
State of Sample Origin: VA

Electronic Copy To	GeoSyntec Consultants	Attn: Mark Johnson
Electronic Copy To	Geosyntec Consultants	Attn: Mark Bauer

Respectfully Submitted,

Elizabeth M. Bauer
Project Manager

(717) 556-7290

To view our laboratory's current scopes of accreditation please go to http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . Historical copies may be requested through your project manager.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
TW-14 Grab Groundwater	11/12/2018 11:10	9900092
TW-04 Grab Groundwater	11/12/2018 12:50	9900093
TW-07 Grab Groundwater	11/12/2018 14:50	9900094
TW-05 Grab Groundwater	11/13/2018 11:00	9900095
TW-06 Grab Groundwater	11/13/2018 12:40	9900096
TW-03 Grab Groundwater	11/13/2018 14:00	9900097
TW-02 Grab Groundwater	11/13/2018 15:30	9900098

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

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Analysis Report

Sample Description: **TW-14 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 11:10
SDG#: PRG19-01

GeoSyntec Consultants
ELLE Sample #: WW 9900092
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.	0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.06	0.02	0.05	1
10262	Anthracene	120-12-7	N.D.	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	N.D.	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	N.D.	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	N.D.	0.02	0.05	1
10262	Naphthalene	91-20-3	N.D.	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	N.D.	0.02	0.05	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. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-14 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 11:10
SDG#: PRG19-01

GeoSyntec Consultants
ELLE Sample #: WW 9900092
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 14:28	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 14:27	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 08:48	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 17:11	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 17:10	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 04:02	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:22	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-04 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 12:50
SDG#: PRG19-02

GeoSyntec Consultants
ELLE Sample #: WW 9900093
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.		0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.		10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		2	5	1
10945	Ethylbenzene	100-41-4	N.D.		0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.2	1	1
10945	Toluene	108-88-3	N.D.		0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.9		0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.03	J	0.02	0.05	1
10262	Anthracene	120-12-7	0.1		0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.		0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.		0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.		0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.		0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.		0.02	0.05	1
10262	Biphenyl	92-52-4	0.07		0.02	0.05	1
10262	Chrysene	218-01-9	N.D.		0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.3		0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.07		0.02	0.05	1
10262	Fluoranthene	206-44-0	0.2		0.02	0.05	1
10262	Fluorene	86-73-7	0.4		0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	0.5		0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.06		0.02	0.05	1
10262	Naphthalene	91-20-3	0.3		0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.02	0.05	1
10262	Perylene	198-55-0	N.D.		0.02	0.05	1
10262	Phenanthrene	85-01-8	0.2		0.02	0.05	1
10262	Pyrene	129-00-0	0.1		0.02	0.05	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. Sufficient sample was not available to repeat the analysis.

GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	13	J	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-04 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 12:50
SDG#: PRG19-02

GeoSyntec Consultants
ELLE Sample #: WW 9900093
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	560	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 14:52	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 14:51	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 09:33	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 17:39	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 17:38	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 04:25	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:22	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-07 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:50
SDG#: PRG19-03

GeoSyntec Consultants
ELLE Sample #: WW 9900094
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	0.04 J	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	0.04 J	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	N.D.	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	0.09	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.1	0.02	0.05	1
10262	Naphthalene	91-20-3	0.06	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	N.D.	0.02	0.05	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. Sufficient sample was not available to repeat the analysis.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-07 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 14:50
SDG#: PRG19-03

GeoSyntec Consultants
ELLE Sample #: WW 9900094
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	260	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 15:17	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 15:16	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 10:17	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 18:06	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 18:05	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 04:48	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:22	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-05 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:00
SDG#: PRG19-04BKG

GeoSyntec Consultants
ELLE Sample #: WW 9900095
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.		0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.		10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.		0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.		2	5	1
10945	Ethylbenzene	100-41-4	N.D.		0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.2	1	1
10945	Toluene	108-88-3	N.D.		0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.		0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	1		0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.1		0.02	0.05	1
10262	Anthracene	120-12-7	0.06		0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.		0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.		0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.		0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.		0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.		0.02	0.05	1
10262	Biphenyl	92-52-4	0.2		0.02	0.05	1
10262	Chrysene	218-01-9	N.D.		0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.		0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.07		0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.07		0.02	0.05	1
10262	Fluoranthene	206-44-0	0.04	J	0.02	0.05	1
10262	Fluorene	86-73-7	0.7		0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	3		0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.6		0.02	0.05	1
10262	Naphthalene	91-20-3	1		0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.		0.02	0.05	1
10262	Perylene	198-55-0	N.D.		0.02	0.05	1
10262	Phenanthrene	85-01-8	0.2		0.02	0.05	1
10262	Pyrene	129-00-0	0.1		0.02	0.05	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. Sufficient sample was not available to repeat the analysis.

GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	25	J	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-05 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:00
SDG#: PRG19-04BKG

GeoSyntec Consultants
ELLE Sample #: WW 9900095
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	1,500	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 13:14	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 13:13	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 06:34	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 15:49	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 15:48	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 05:11	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-06 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:40
SDG#: PRG19-05

GeoSyntec Consultants
ELLE Sample #: WW 9900096
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	N.D.	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	N.D.	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	N.D.	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	N.D.	0.02	0.05	1
10262	Naphthalene	91-20-3	N.D.	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	0.04 J	0.02	0.05	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. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-06 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 12:40
SDG#: PRG19-05

GeoSyntec Consultants
ELLE Sample #: WW 9900096
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	340	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 15:41	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 15:40	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 11:02	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 18:34	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 18:33	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 05:34	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-03 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 14:00
SDG#: PRG19-06

GeoSyntec Consultants
ELLE Sample #: WW 9900097
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.04 J	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	0.06	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.03 J	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.08	0.02	0.05	1
10262	Fluoranthene	206-44-0	0.02 J	0.02	0.05	1
10262	Fluorene	86-73-7	0.1	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	0.02 J	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	0.04 J	0.02	0.05	1
10262	Naphthalene	91-20-3	0.03 J	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	0.04 J	0.02	0.05	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. Sufficient sample was not available to repeat the analysis.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-03 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 14:00
SDG#: PRG19-06

GeoSyntec Consultants
ELLE Sample #: WW 9900097
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	180	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 16:06	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 16:05	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 11:46	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 19:02	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 19:01	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 05:58	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-02 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 15:30
SDG#: PRG19-07

GeoSyntec Consultants
ELLE Sample #: WW 9900098
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	0.06	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	N.D.	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	0.08	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	N.D.	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	N.D.	0.02	0.05	1
10262	Naphthalene	91-20-3	N.D.	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	0.08	0.02	0.05	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. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-02 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 15:30
SDG#: PRG19-07

GeoSyntec Consultants
ELLE Sample #: WW 9900098
ELLE Group #: 2009413
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 16:30	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 16:29	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 12:31	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 19:57	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 19:56	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 06:21	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:49

Group Number: 2009413

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**	LOQ
	ug/l	ug/l	ug/l
Batch number: Z183232AA	Sample number(s): 9900092-9900098		
Benzene	N.D.	0.2	1
t-Butyl alcohol	N.D.	10	25
1,2-Dibromoethane	N.D.	0.3	1
1,2-Dichloroethane	N.D.	2	5
Ethylbenzene	N.D.	0.2	1
Methyl Tertiary Butyl Ether	N.D.	0.2	1
Toluene	N.D.	0.2	1
Xylene (Total)	N.D.	0.5	5
Batch number: 18320WAZ026	Sample number(s): 9900092-9900098		
Acenaphthene	N.D.	0.02	0.05
Acenaphthylene	N.D.	0.02	0.05
Anthracene	N.D.	0.02	0.05
Benzo(a)anthracene	N.D.	0.02	0.05
Benzo(a)pyrene	N.D.	0.02	0.05
Benzo(b)fluoranthene	N.D.	0.02	0.05
Benzo(e)pyrene	N.D.	0.02	0.05
Benzo(g,h,i)perylene	N.D.	0.02	0.05
Benzo(k)fluoranthene	N.D.	0.02	0.05
Biphenyl	N.D.	0.02	0.05
Chrysene	N.D.	0.02	0.05
Dibenz(a,h)anthracene	N.D.	0.02	0.05
Dibenzofuran	N.D.	0.02	0.05
Dibenzothiophene	N.D.	0.02	0.05
Fluoranthene	N.D.	0.02	0.05
Fluorene	N.D.	0.02	0.05
Indeno(1,2,3-cd)pyrene	N.D.	0.02	0.05
1-Methylnaphthalene	N.D.	0.02	0.05
2-Methylnaphthalene	N.D.	0.02	0.05
Naphthalene	N.D.	0.02	0.05
Naphthobenzothiophene	N.D.	0.02	0.05
Perylene	N.D.	0.02	0.05
Phenanthrene	N.D.	0.02	0.05
Pyrene	N.D.	0.02	0.05
Batch number: 18319C20A	Sample number(s): 9900092-9900098		
TPH-GRO water C6-C10	N.D.	11	50
Batch number: 183200007A	Sample number(s): 9900092-9900098		
DRO C10-C28	N.D.	53	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:49

Group Number: 2009413

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
	mg/l	mg/l	mg/l
Batch number: 18325807901A	Sample number(s): 9900092-9900098		
HEM (oil & grease)	N.D.	1.4	5.0

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: Z183232AA	Sample number(s): 9900092-9900098								
Benzene	20	21.44			107		80-120		
t-Butyl alcohol	200	211.15			106		60-130		
1,2-Dibromoethane	20	22.1			111		77-120		
1,2-Dichloroethane	20	21.08			105		73-124		
Ethylbenzene	20	21.06			105		80-120		
Methyl Tertiary Butyl Ether	20	24.13			121		69-122		
Toluene	20	21.51			108		80-120		
Xylene (Total)	60	62.97			105		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18320WAZ026	Sample number(s): 9900092-9900098								
Acenaphthene	1.00	0.869			87		69-121		
Acenaphthylene	1.00	0.978			98		58-98		
Anthracene	1.00	0.917			92		63-105		
Benzo(a)anthracene	1.00	0.968			97		69-106		
Benzo(a)pyrene	1.00	0.955			95		71-112		
Benzo(b)fluoranthene	1.00	0.897			90		72-111		
Benzo(e)pyrene	1.00	0.922			92		69-109		
Benzo(g,h,i)perylene	1.00	1.04			104		60-109		
Benzo(k)fluoranthene	1.00	0.887			89		65-112		
Biphenyl	1.00	0.959			96		74-101		
Chrysene	1.00	0.916			92		66-107		
Dibenz(a,h)anthracene	1.00	0.991			99		66-114		
Dibenzofuran	1.00	0.933			93		55-119		
Dibenzothiophene	1.00	0.994			99		76-111		
Fluoranthene	1.00	0.954			95		66-109		
Fluorene	1.00	0.836			84		64-106		
Indeno(1,2,3-cd)pyrene	1.00	0.992			99		63-110		
1-Methylnaphthalene	1.00	0.888			89		53-124		
2-Methylnaphthalene	1.00	0.937			94*		61-93		
Naphthalene	1.00	0.952			95		56-102		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:49

Group Number: 2009413

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
Perylene	1.00	1.15			115		68-146		
Phenanthrene	1.00	1.06			106*		64-105		
Pyrene	1.00	0.998			100		64-100		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18319C20A	Sample number(s): 9900092-9900098								
TPH-GRO water C6-C10	1100	1190.83			108		70-123		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 183200007A	Sample number(s): 9900092-9900098								
DRO C10-C28	2769.96	2683.07			97		27-118		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 18325807901A	Sample number(s): 9900092-9900098								
HEM (oil & grease)	40	34.5	40	37.1	86	93	78-114	7	13

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: Z183232AA	Sample number(s): 9900092-9900098 UNSPK: 9900095									
Benzene	N.D.	20	23.33	20	23.12	117	116	80-120	1	30
t-Butyl alcohol	N.D.	200	201.2	200	202.69	101	101	60-130	1	30
1,2-Dibromoethane	N.D.	20	21.74	20	21.73	109	109	77-120	0	30
1,2-Dichloroethane	N.D.	20	21.53	20	21.18	108	106	73-124	2	30
Ethylbenzene	N.D.	20	22.74	20	22.89	114	114	80-120	1	30
Methyl Tertiary Butyl Ether	N.D.	20	24.16	20	24.44	121	122	69-122	1	30
Toluene	N.D.	20	22.92	20	22.92	115	115	80-120	0	30
Xylene (Total)	N.D.	60	67.56	60	66.94	113	112	80-120	1	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 18320WAZ026	Sample number(s): 9900092-9900098 UNSPK: 9900095									
Acenaphthene	1.19	0.978	2.08	1.02	1.54	91	35*	69-121	30	30
Acenaphthylene	0.0991	0.978	1.00	1.02	0.777	92	67	58-98	25	30
Anthracene	0.0635	0.978	0.465	1.02	0.903	41*	83	63-105	64*	30
Benzo(a)anthracene	N.D.	0.978	1.02	1.02	1.05	104	104	69-106	3	30
Benzo(a)pyrene	N.D.	0.978	0.926	1.02	0.957	95	94	71-112	3	30
Benzo(b)fluoranthene	N.D.	0.978	0.986	1.02	1.03	101	101	72-111	4	30

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:49

Group Number: 2009413

MS/MSD (continued)

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
Benzo(e)pyrene	N.D.	0.978	0.958	1.02	0.983	98	97	69-109	3	30
Benzo(g,h,i)perylene	N.D.	0.978	1.06	1.02	1.13	108	111*	60-109	6	30
Benzo(k)fluoranthene	N.D.	0.978	0.887	1.02	0.970	91	95	65-112	9	30
Biphenyl	0.168	0.978	1.09	1.02	1.03	94	85	74-101	6	30
Chrysene	N.D.	0.978	0.972	1.02	1.01	99	99	66-107	4	30
Dibenz(a,h)anthracene	N.D.	0.978	1.03	1.02	1.08	106	106	66-114	5	30
Dibenzofuran	0.0666	0.978	0.813	1.02	0.624	76	55	55-119	26	30
Dibenzothiophene	0.0718	0.978	0.548	1.02	0.985	49*	90	76-111	57*	30
Fluoranthene	0.0449	0.978	0.515	1.02	0.940	48*	88	66-109	58*	30
Fluorene	0.680	0.978	1.50	1.02	1.24	84	55*	64-106	19	30
Indeno(1,2,3-cd)pyrene	N.D.	0.978	1.04	1.02	1.10	106	108	63-110	5	30
1-Methylnaphthalene	2.58	0.978	3.85	1.02	3.56	131*	97	53-124	8	30
2-Methylnaphthalene	0.563	0.978	1.53	1.02	1.47	99*	89	61-93	4	30
Naphthalene	1.01	0.978	2.43	1.02	2.46	145*	142*	56-102	1	30
Perylene	N.D.	0.978	1.11	1.02	1.13	113	112	68-146	2	30
Phenanthrene	0.194	0.978	0.790	1.02	1.32	61*	111*	64-105	50*	30
Pyrene	0.134	0.978	0.601	1.02	1.21	48*	106*	64-100	67*	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 18319C20A	Sample number(s): 9900092-9900098 UNSPK: 9900095									
TPH-GRO water C6-C10	24.6	1100	1269.04	1100	1252.2	113	112	70-123	1	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 183200007A	Sample number(s): 9900092-9900098 UNSPK: 9900095									
DRO C10-C28	1528.31	274186.4	4197.98	272097.9	4712.01	1*	1*	51-115	12	20
	mg/l	**mg/l**	**mg/l**	**mg/l**	**mg/l**					
Batch number: 18325807901A	Sample number(s): 9900092-9900098 UNSPK: 9900095									
HEM (oil & grease)	N.D.	43	33.55	41.7	32.81	78	79	78-114	2	36

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: VOCs- 5ml Water by 8260B UST
Batch number: Z183232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9900092	110	99	102	96
9900093	109	101	101	97

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:49

Group Number: 2009413

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: VOCs- 5ml Water by 8260B UST
Batch number: Z183232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9900094	110	99	102	97
9900095	111	100	101	97
9900096	109	99	102	97
9900097	110	102	102	98
9900098	109	99	102	97
Blank	111	100	101	97
LCS	109	101	103	101
MS	108	101	101	100
MSD	109	103	102	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 18320WAZ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
9900092	102	85	99
9900093	70	84	98
9900094	97	87	94
9900095	59	82	84
9900096	90	86	91
9900097	86	85	95
9900098	97	85	92
Blank	104	92	93
LCS	96	88	93
MS	58	88	100
MSD	100	87	88
Limits:	51-120	44-120	42-123

Analysis Name: TPH-GRO water C6-C10
Batch number: 18319C20A

	Trifluorotoluene-F
9900092	80
9900093	84
9900094	86
9900095	87
9900096	87
9900097	86
9900098	79
Blank	83
LCS	97
MS	94

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:49

Group Number: 2009413

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.

Analysis Name: TPH-GRO water C6-C10
Batch number: 18319C20A

	Trifluorotoluene-F
MSD	92
Limits:	63-135

Analysis Name: DRO Microextraction Master
Batch number: 183200007A

	Orthoterphenyl
9900092	101
9900093	99
9900094	98
9900095	115
9900096	100
9900097	100
9900098	98
Blank	100
LCS	95
MS	109
MSD	110
Limits:	62-128

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Environmental Analysis Request/Chain of Custody

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For Eurofins Lancaster Laboratories Environmental use only
Acct. # 9811 Group # 2009413 Sample # 9900092-98

COC # 570350

Client Information

Client: Geosyntec
Acct. #: AA
Project Name/#: PRGS
PWSID #:
Project Manager: M. Bauer
P.O. #: MEM1108A
Sampler: A. Ambrosino
Quote #: AA
State where samples were collected: Virginia
For Compliance: Yes ☐ No ☒

For Lab Use Only
FSC:
SCR#: 234320

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 P=H_3PO_4
F=Field Filtered O=Other

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ Ground ☒ Surface ☐ NPDES ☐	Other:	Total # of Containers	HEM (oil & grease)	TPH-GRO 8015B	VOCs 8260B	TPH-DRO 8015 Micro Ext.	PAHs 8270C SIM					Remarks
TW-14	11-12-18	1110	X			X		11	X	X	X	X	X					Please use the
TW-04	11-12-18	1250	X			X		11	X	X	X	X	X					(1) 1,000 mL
TW-07	11-12-18	1450	X			X		11	X	X	X	X	X					amber bottle
TW-05	11-13-18	1100	X			X		11	X	X	X	X	X					collected for PAHs.
TW-06	11-13-18	1240	X			X		11	X	X	X	X	X					We usually collected
TW-03	11-13-18	1400	X			X		11	X	X	X	X	X					(2) 250 mL amber
TW-02	11-13-18	1530	X			X		11	X	X	X	X	X					bottles for PAHs.
									AA									

Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Requested TAT in business days:

E-mail address: mbauer@geosyntec.com

Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) NJ DKQP TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
Bottle storage					
A. Ambrosino	11-14-18			11/14/18	1100
	11/14/18	1750			
			Ember	11-14-18	1750

EDD Required? Yes No
If yes, format: ESDat

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.4-1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233338

Group Number(s): 2009413

Client: Geosyntec

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/14/2018 17:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	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:	No	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 20:48 on 11/14/2018

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	DT131	0.9	DT	Wet	Y	Loose	N
2	DT131	0.9	DT	Wet	Y	Loose	N
3	DT131	0.4	DT	Wet	Y	Loose	N
4	DT131	1.6	DT	Wet	Y	Loose	N

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
TW04	40 ml glass vial - HCl	1	N	Vial was frozen.

General Comments: Partially frozen vials for samples TW-14, TW-05 MS, TW-05 MSD,

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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:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GeoSyntec Consultants
4th Floor
10211 Wincopin Circle
Columbia MD 21044

Report Date: November 27, 2018 11:51

Project: NRG PRGS

Account #: 09811
Group Number: 2009414
SDG: PRG19
PO Number: MEM1108A
State of Sample Origin: VA

Electronic Copy To	GeoSyntec Consultants	Attn: Mark Johnson
Electronic Copy To	Geosyntec Consultants	Attn: Mark Bauer

Respectfully Submitted,

Elizabeth M. Bauer
Project Manager

(717) 556-7290

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
TB18310 Water	11/09/2018	9900099
DUP20181112 Grab Groundwater	11/12/2018	9900100
EB20181112 Grab Water	11/12/2018 16:00	9900101
TW-05 MS Grab Groundwater	11/13/2018 11:00	9900102
TW-05 MSD Grab Groundwater	11/13/2018 11:00	9900103

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

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Analysis Report

Sample Description: **TB18310 Water**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/09/2018
SDG#: PRG19-08TB

GeoSyntec Consultants
ELLE Sample #: WW 9900099
ELLE Group #: 2009414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 12:50	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 12:49	Alexander D Sechrist	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 14:55	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 14:54	Linda C Pape	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP20181112 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018
SDG#: PRG19-09FD

GeoSyntec Consultants
ELLE Sample #: WW 9900100
ELLE Group #: 2009414
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	N.D.	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	N.D.	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	N.D.	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	N.D.	0.02	0.05	1
10262	Naphthalene	91-20-3	N.D.	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	N.D.	0.02	0.05	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. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **DUP20181112 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018
SDG#: PRG19-09FD

GeoSyntec Consultants
ELLE Sample #: WW 9900100
ELLE Group #: 2009414
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	65	J	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.		1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 16:55	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 16:54	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 13:15	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 20:24	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 20:23	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 06:44	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB20181112 Grab Water NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 16:00
SDG#: PRG19-10EB

GeoSyntec Consultants
ELLE Sample #: WW 9900101
ELLE Group #: 2009414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.2	1	1
10945	t-Butyl alcohol	75-65-0	N.D.	10	25	1
10945	1,2-Dibromoethane	106-93-4	N.D.	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	N.D.	2	5	1
10945	Ethylbenzene	100-41-4	N.D.	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.2	1	1
10945	Toluene	108-88-3	N.D.	0.2	1	1
10945	Xylene (Total)	1330-20-7	N.D.	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	N.D.	0.02	0.05	1
10262	Acenaphthylene	208-96-8	N.D.	0.02	0.05	1
10262	Anthracene	120-12-7	N.D.	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	N.D.	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	N.D.	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	N.D.	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	N.D.	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	N.D.	0.02	0.05	1
10262	Biphenyl	92-52-4	N.D.	0.02	0.05	1
10262	Chrysene	218-01-9	N.D.	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	N.D.	0.02	0.05	1
10262	Dibenzofuran	132-64-9	N.D.	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	N.D.	0.02	0.05	1
10262	Fluoranthene	206-44-0	N.D.	0.02	0.05	1
10262	Fluorene	86-73-7	N.D.	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	N.D.	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	N.D.	0.02	0.05	1
10262	Naphthalene	91-20-3	N.D.	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	N.D.	0.02	0.05	1
10262	Phenanthrene	85-01-8	N.D.	0.02	0.05	1
10262	Pyrene	129-00-0	N.D.	0.02	0.05	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. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **EB20181112 Grab Water NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/12/2018 16:00
SDG#: PRG19-10EB

GeoSyntec Consultants
ELLE Sample #: WW 9900101
ELLE Group #: 2009414
Matrix: Water

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	N.D.	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	N.D.	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 17:19	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 17:18	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 14:00	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 15:22	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 15:21	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/20/2018 01:35	Marisa Englebright	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-05 MS Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:00
SDG#: PRG19-04MS

GeoSyntec Consultants
ELLE Sample #: WW 9900102
ELLE Group #: 2009414
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	23	0.2	1	1
10945	t-Butyl alcohol	75-65-0	200	10	25	1
10945	1,2-Dibromoethane	106-93-4	22	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	22	2	5	1
10945	Ethylbenzene	100-41-4	23	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	24	0.2	1	1
10945	Toluene	108-88-3	23	0.2	1	1
10945	Xylene (Total)	1330-20-7	68	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	2	0.02	0.05	1
10262	Acenaphthylene	208-96-8	1	0.02	0.05	1
10262	Anthracene	120-12-7	0.5	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	1	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	0.9	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	1	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	1	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	1	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	0.9	0.02	0.05	1
10262	Biphenyl	92-52-4	1	0.02	0.05	1
10262	Chrysene	218-01-9	1	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	1	0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.8	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	0.5	0.02	0.05	1
10262	Fluoranthene	206-44-0	0.5	0.02	0.05	1
10262	Fluorene	86-73-7	2	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	1	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	4	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	2	0.02	0.05	1
10262	Naphthalene	91-20-3	2	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	1	0.02	0.05	1
10262	Phenanthrene	85-01-8	0.8	0.02	0.05	1
10262	Pyrene	129-00-0	0.6	0.02	0.05	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. Sufficient sample was not available to repeat the analysis.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,300	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-05 MS Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:00
SDG#: PRG19-04MS

GeoSyntec Consultants
ELLE Sample #: WW 9900102
ELLE Group #: 2009414
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,200	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	33.5	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 13:39	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 13:38	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 07:19	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 16:17	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 16:16	Linda C Pape	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 13:18	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW-05 MSD Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:00
SDG#: PRG19-04MSD

GeoSyntec Consultants
ELLE Sample #: WW 9900103
ELLE Group #: 2009414
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	**ug/l**	
10945	Benzene	71-43-2	23	0.2	1	1
10945	t-Butyl alcohol	75-65-0	200	10	25	1
10945	1,2-Dibromoethane	106-93-4	22	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	21	2	5	1
10945	Ethylbenzene	100-41-4	23	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	24	0.2	1	1
10945	Toluene	108-88-3	23	0.2	1	1
10945	Xylene (Total)	1330-20-7	67	0.5	5	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene	83-32-9	2	0.02	0.05	1
10262	Acenaphthylene	208-96-8	0.8	0.02	0.05	1
10262	Anthracene	120-12-7	0.9	0.02	0.05	1
10262	Benzo(a)anthracene	56-55-3	1	0.02	0.05	1
10262	Benzo(a)pyrene	50-32-8	1	0.02	0.05	1
10262	Benzo(b)fluoranthene	205-99-2	1	0.02	0.05	1
10262	Benzo(e)pyrene	192-97-2	1	0.02	0.05	1
10262	Benzo(g,h,i)perylene	191-24-2	1	0.02	0.05	1
10262	Benzo(k)fluoranthene	207-08-9	1	0.02	0.05	1
10262	Biphenyl	92-52-4	1	0.02	0.05	1
10262	Chrysene	218-01-9	1	0.02	0.05	1
10262	Dibenz(a,h)anthracene	53-70-3	1	0.02	0.05	1
10262	Dibenzofuran	132-64-9	0.6	0.02	0.05	1
10262	Dibenzothiophene	132-65-0	1	0.02	0.05	1
10262	Fluoranthene	206-44-0	0.9	0.02	0.05	1
10262	Fluorene	86-73-7	1	0.02	0.05	1
10262	Indeno(1,2,3-cd)pyrene	193-39-5	1	0.02	0.05	1
10262	1-Methylnaphthalene	90-12-0	4	0.02	0.05	1
10262	2-Methylnaphthalene	91-57-6	1	0.02	0.05	1
10262	Naphthalene	91-20-3	2	0.02	0.05	1
10262	Naphthobenzothiophene	224-10-2	N.D.	0.02	0.05	1
10262	Perylene	198-55-0	1	0.02	0.05	1
10262	Phenanthrene	85-01-8	1	0.02	0.05	1
10262	Pyrene	129-00-0	1	0.02	0.05	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. Sufficient sample was not available to repeat the analysis.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,300	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW-05 MSD Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 11/14/2018 17:50
Collection Date/Time: 11/13/2018 11:00
SDG#: PRG19-04MSD

GeoSyntec Consultants
ELLE Sample #: WW 9900103
ELLE Group #: 2009414
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	4,700	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	32.8	1.4	5.0	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10945	VOCs- 5ml Water by 8260B UST	SW-846 8260B	1	Z183232AA	11/19/2018 14:03	Alexander D Sechrist	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z183232AA	11/19/2018 14:02	Alexander D Sechrist	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	18320WAZ026	11/22/2018 08:04	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	18320WAZ026	11/19/2018 08:45	David S Schrum	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	18319C20A	11/16/2018 16:44	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	18319C20A	11/16/2018 16:43	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	183200007A	11/17/2018 13:41	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	183200007A	11/16/2018 09:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	18325807901A	11/21/2018 07:23	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:51

Group Number: 2009414

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**	LOQ
	ug/l	ug/l	ug/l
Batch number: Z183232AA	Sample number(s): 9900099-9900103		
Benzene	N.D.	0.2	1
t-Butyl alcohol	N.D.	10	25
1,2-Dibromoethane	N.D.	0.3	1
1,2-Dichloroethane	N.D.	2	5
Ethylbenzene	N.D.	0.2	1
Methyl Tertiary Butyl Ether	N.D.	0.2	1
Toluene	N.D.	0.2	1
Xylene (Total)	N.D.	0.5	5
Batch number: 18320WAZ026	Sample number(s): 9900100-9900103		
Acenaphthene	N.D.	0.02	0.05
Acenaphthylene	N.D.	0.02	0.05
Anthracene	N.D.	0.02	0.05
Benzo(a)anthracene	N.D.	0.02	0.05
Benzo(a)pyrene	N.D.	0.02	0.05
Benzo(b)fluoranthene	N.D.	0.02	0.05
Benzo(e)pyrene	N.D.	0.02	0.05
Benzo(g,h,i)perylene	N.D.	0.02	0.05
Benzo(k)fluoranthene	N.D.	0.02	0.05
Biphenyl	N.D.	0.02	0.05
Chrysene	N.D.	0.02	0.05
Dibenz(a,h)anthracene	N.D.	0.02	0.05
Dibenzofuran	N.D.	0.02	0.05
Dibenzothiophene	N.D.	0.02	0.05
Fluoranthene	N.D.	0.02	0.05
Fluorene	N.D.	0.02	0.05
Indeno(1,2,3-cd)pyrene	N.D.	0.02	0.05
1-Methylnaphthalene	N.D.	0.02	0.05
2-Methylnaphthalene	N.D.	0.02	0.05
Naphthalene	N.D.	0.02	0.05
Naphthobenzothiophene	N.D.	0.02	0.05
Perylene	N.D.	0.02	0.05
Phenanthrene	N.D.	0.02	0.05
Pyrene	N.D.	0.02	0.05
Batch number: 18319C20A	Sample number(s): 9900099-9900103		
TPH-GRO water C6-C10	N.D.	11	50
Batch number: 183200007A	Sample number(s): 9900100-9900103		
DRO C10-C28	N.D.	53	100

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:51

Group Number: 2009414

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
	mg/l	mg/l	mg/l
Batch number: 18325807901A	Sample number(s): 9900100-9900103		
HEM (oil & grease)	N.D.	1.4	5.0

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: Z183232AA	Sample number(s): 9900099-9900103								
Benzene	20	21.44			107		80-120		
t-Butyl alcohol	200	211.15			106		60-130		
1,2-Dibromoethane	20	22.1			111		77-120		
1,2-Dichloroethane	20	21.08			105		73-124		
Ethylbenzene	20	21.06			105		80-120		
Methyl Tertiary Butyl Ether	20	24.13			121		69-122		
Toluene	20	21.51			108		80-120		
Xylene (Total)	60	62.97			105		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18320WAZ026	Sample number(s): 9900100-9900103								
Acenaphthene	1.00	0.869			87		69-121		
Acenaphthylene	1.00	0.978			98		58-98		
Anthracene	1.00	0.917			92		63-105		
Benzo(a)anthracene	1.00	0.968			97		69-106		
Benzo(a)pyrene	1.00	0.955			95		71-112		
Benzo(b)fluoranthene	1.00	0.897			90		72-111		
Benzo(e)pyrene	1.00	0.922			92		69-109		
Benzo(g,h,i)perylene	1.00	1.04			104		60-109		
Benzo(k)fluoranthene	1.00	0.887			89		65-112		
Biphenyl	1.00	0.959			96		74-101		
Chrysene	1.00	0.916			92		66-107		
Dibenz(a,h)anthracene	1.00	0.991			99		66-114		
Dibenzofuran	1.00	0.933			93		55-119		
Dibenzothiophene	1.00	0.994			99		76-111		
Fluoranthene	1.00	0.954			95		66-109		
Fluorene	1.00	0.836			84		64-106		
Indeno(1,2,3-cd)pyrene	1.00	0.992			99		63-110		
1-Methylnaphthalene	1.00	0.888			89		53-124		
2-Methylnaphthalene	1.00	0.937			94*		61-93		
Naphthalene	1.00	0.952			95		56-102		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:51

Group Number: 2009414

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
Perylene	1.00	1.15			115		68-146		
Phenanthrene	1.00	1.06			106*		64-105		
Pyrene	1.00	0.998			100		64-100		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 18319C20A	Sample number(s): 9900099-9900103								
TPH-GRO water C6-C10	1100	1190.83			108		70-123		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 183200007A	Sample number(s): 9900100-9900103								
DRO C10-C28	2769.96	2683.07			97		27-118		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 18325807901A	Sample number(s): 9900100-9900103								
HEM (oil & grease)	40	34.5	40	37.1	86	93	78-114	7	13

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: VOCs- 5ml Water by 8260B UST
Batch number: Z183232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9900099	111	101	101	95
9900100	111	101	102	98
9900101	110	101	101	96
9900102	108	101	101	100
9900103	109	103	102	101
Blank	111	100	101	97
LCS	109	101	103	101
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 18320WAZ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
9900100	95	83	102
9900101	97	86	92
9900102	58	88	100
9900103	100	87	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 11/27/2018 11:51

Group Number: 2009414

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.

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 18320WAZ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
Blank	104	92	93
LCS	96	88	93
Limits:	51-120	44-120	42-123

Analysis Name: TPH-GRO water C6-C10
Batch number: 18319C20A

	Trifluorotoluene-F
9900099	87
9900100	86
9900101	84
9900102	94
9900103	92
Blank	83
LCS	97
Limits:	63-135

Analysis Name: DRO Microextraction Master
Batch number: 183200007A

	Orthoterphenyl
9900100	99
9900101	98
9900102	109
9900103	110
Blank	100
LCS	95
Limits:	62-128

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Environmental Analysis Request/Chain of Custody

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Acct. # 9811 Group # ~~2009413~~ 2009414 Sample # ~~9900092-98~~ 9900099-103 JH 1326 11/14/18

COC # 570351

Client Information

Client: Geosyntec	Acct. #: IAA
Project Name/#: PRGS	PWSID #:
Project Manager: M. Baver	P.O. #: MEM1108A
Sampler: A. Ambrosino	Quote #: IAA
State where samples were collected: Virginia	For Compliance: Yes ☐ No ☒

Sample Identification	Collected Date	Collected Time	Grab	Composite	Soil	Sediment	Tissue	Water (Ground)	Water (Potable)	Water (Surface)	Water (NPDES)	Other:	Total # of Containers	HEM (oil & grease)	TPH-GRO 8015B	VOCs 8260B	TPH-DRO 8015 micro ext	PAHs 8270 SIM					
TB18310	11/9/18	—						X					4	X	X	X	X	X					
DUP20181112	11-12-18	—	X					X					11	X	X	X	X	X					
EB20181112	11-12-18	1600	X					X					11	X	X	X	X	X					
TW05 MS	11-13-18	1100	X					X					11	X	X	X	X	X					
TW05 MSD	11-13-18	1100	X					X					11	X	X	X	X	X					

Preservation and Filtration Codes

For Lab Use Only
FSC:
SCR#:

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 P=H_3PO_4
F=Field Filtered O=Other

Remarks

Turnaround Time (TAT) Requested (please circle)
Standard Rush
(Rush TAT is subject to laboratory approval and surcharge.)

Requested TAT in business days:

E-mail address: mbaver@geosyntec.com

Data Package Options (circle if required)
Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only)
Type III (Reduced non-CLP) NJ DKQP TX TRRP-13
NYSDEC Category A or B MA MCP CT RCP

Relinquished by	Date	Time	Received by	Date	Time
A. Ambrosino	11-14-18		[signature]	11/14/18	1100
[signature]	11/14/18	1150			
			[signature]	11-14-18	1750

EDD Required? Yes No
If yes, format: EsDat

Site-Specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:
UPS FedEx Other

Temperature upon receipt 0.1-1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 233338

Group Number(s): ~~2009413~~ 2009414 JH 1326 11/14/18

Client: Geosyntec

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	11/14/2018 17:50
Number of Packages:	4	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	No	VOA Vial Headspace ≥ 6mm:	No
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	4
Samples Intact:	No	Trip Blank Type:	HCl
Missing Samples:	No	Air Quality Samples Present:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez (8943) at 20:48 on 11/14/2018

Samples Not Intact Details

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
TW-05 MSD	40 ml glass vial - HCl	1	N	Vial was frozen.

General Comments: Partially frozen vials for samples Dup20181112,

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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:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

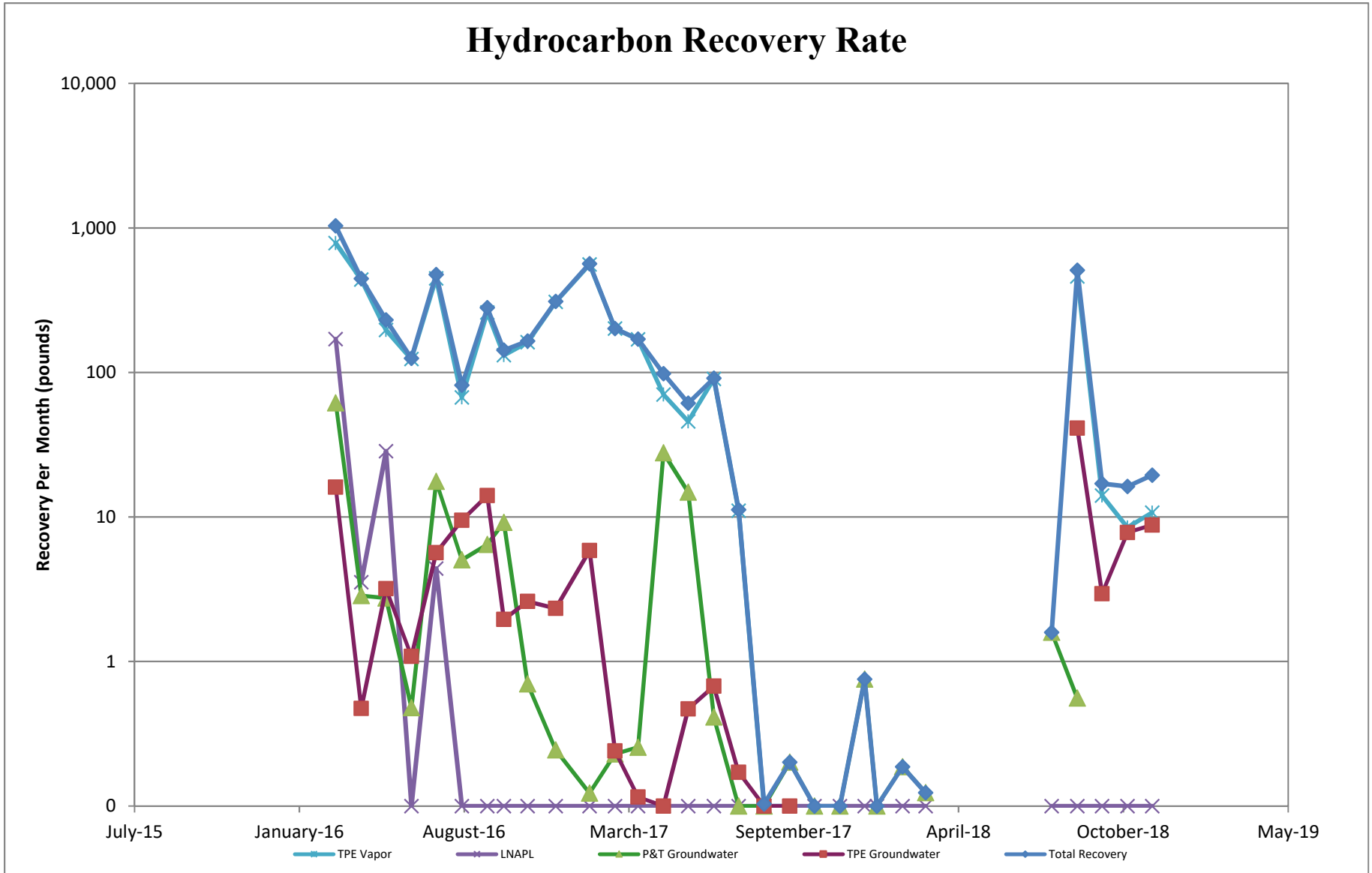
Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Attachment C – Remediation System Performance Graphs

Attachment C

REMEDIATION SYSTEM PERFORMANCE GRAPHS

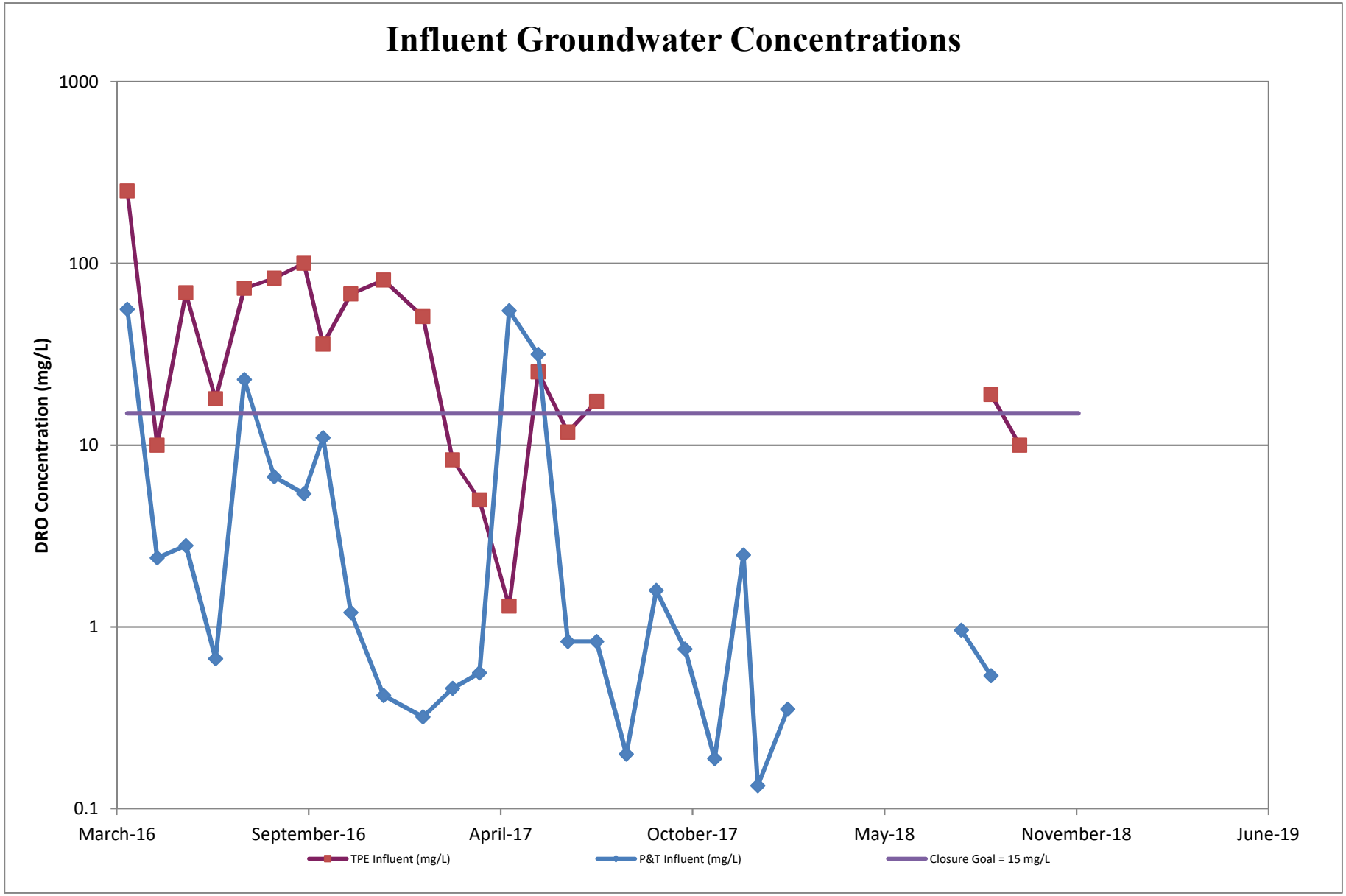
NRG Potomac River Generating Station
1400 North Royal St
Alexandria, VA



Note: The recovery rate is normalized to a 30 day monthly operation period.

REMEDIATION SYSTEM PERFORMANCE GRAPHS

NRG Potomac River Generating Station
1400 North Royal St
Alexandria, VA



Attachment D – Laboratory Analytical Reports and Chains of Custody Documentation - System Sampling

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ANALYSIS REPORT

Prepared by:

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

Prepared for:

GES, Inc.
440 Creamery Way, Suite 500
Exton PA 19341

Report Date: October 22, 2018 15:37

Project: NRG PRGS

Account #: 08390
Group Number: 1997032
PO Number: 0402919-53-220
Release Number: ORG # 0404
State of Sample Origin: VA

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

Respectfully Submitted,

Lynn M. Frederiksen
Principal Specialist Group Leader

(717) 556-7255

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
Effluent Grab Groundwater	10/09/2018 11:00	9846017
Post OWS Grab Groundwater	10/09/2018 11:10	9846018
TPE Influent Grab Groundwater	10/09/2018 11:15	9846019

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

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Analysis Report

Sample Description: **Effluent Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 10/10/2018 18:30
Collection Date/Time: 10/09/2018 11:00

GES, Inc.
ELLE Sample #: GW 9846017
ELLE Group #: 1997032
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**EPA 624.1**		**ug/l**	**ug/l**	
14687	Benzene	71-43-2	N.D.	0.5	10
14687	Ethylbenzene	100-41-4	N.D.	1	10
14687	Naphthalene	91-20-3	N.D.	0.5	10
14687	Toluene	108-88-3	N.D.	0.5	10
14687	Xylene (total)	1330-20-7	N.D.	1	10
Reporting limits were raised due to sample foaming.					
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	11,000	53	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
Metals	**SW-846 6010B**		**mg/l**	**mg/l**	
07035	Arsenic	7440-38-2	N.D.	0.0160	1
07049	Cadmium	7440-43-9	N.D.	0.0010	1
07051	Chromium	7440-47-3	N.D.	0.0053	1
07053	Copper	7440-50-8	0.0324	0.0062	1
07055	Lead	7439-92-1	N.D.	0.0071	1
07060	Molybdenum	7439-98-7	N.D.	0.0020	1
07061	Nickel	7440-02-0	0.0658	0.0031	1
07066	Silver	7440-22-4	N.D.	0.0050	1
07072	Zinc	7440-66-6	0.109	0.0030	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**	
08079	HEM (oil & grease)	n.a.	3.7 J	1.4	1

Sample Comments

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14687	BTEX, Naphthalene	EPA 624.1	1	U182881AA	10/16/2018 02:53	Hu Yang	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	182900041A	10/19/2018 09:18	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	182900041A	10/18/2018 07:46	Maria Davenport	1
07035	Arsenic	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
07049	Cadmium	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
07051	Chromium	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
07053	Copper	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1

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Analysis Report

Sample Description: **Effluent Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 10/10/2018 18:30
Collection Date/Time: 10/09/2018 11:00

GES, Inc.
ELLE Sample #: GW 9846017
ELLE Group #: 1997032
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07055	Lead	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
07060	Molybdenum	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
07061	Nickel	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
07066	Silver	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
07072	Zinc	SW-846 6010B	1	182890184801	10/18/2018 16:47	Cindy M Gehman	1
00259	Mercury	SW-846 7470A	1	182850571309	10/15/2018 13:50	Damary Valentin	1
01848	ICP-WW, 3005A (tot rec) - U3	SW-846 3005A	1	182890184801	10/17/2018 06:05	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	182850571309	10/15/2018 08:05	Denise L Trimby	1
00237	Total Cyanide (water)	EPA 335.4	1	18284102101B	10/15/2018 12:33	Joseph E McKenzie	1
00492	Cyanide Water Distillation	EPA 335.4	1	18284102101B	10/11/2018 17:30	James S Mathiot	1
08079	HEM (oil & grease)	EPA 1664A	1	18289807901A	10/16/2018 08:00	Yolunder Y Bunch	1

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Analysis Report

Sample Description: **Post OWS Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 10/10/2018 18:30
Collection Date/Time: 10/09/2018 11:10

GES, Inc.
ELLE Sample #: GW 9846018
ELLE Group #: 1997032
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	11,000	53	1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.					
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	2.0 J	1.4	1

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	182900041A	10/19/2018 09:42	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	182900041A	10/18/2018 07:46	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664A	1	18289807901A	10/16/2018 08:00	Yolunder Y Bunch	1

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Analysis Report

Sample Description: **TPE Influent Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 10/10/2018 18:30
Collection Date/Time: 10/09/2018 11:15

GES, Inc.
ELLE Sample #: GW 9846019
ELLE Group #: 1997032
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	10,000	53	1

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

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	182900041A	10/19/2018 10:05	Thomas C Wildermuth	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	182900041A	10/18/2018 07:46	Maria Davenport	1

Quality Control Summary

Client Name: GES, Inc.
Reported: 10/22/2018 15:37

Group Number: 1997032

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: U182881AA	Sample number(s): 9846017	
Benzene	N.D.	0.05
Ethylbenzene	N.D.	0.1
Naphthalene	N.D.	0.05
Toluene	N.D.	0.05
Xylene (total)	N.D.	0.1
Batch number: 182900041A	Sample number(s): 9846017-9846019	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 182850571309	Sample number(s): 9846017	
Mercury	N.D.	0.000050
Batch number: 182890184801	Sample number(s): 9846017	
Arsenic	N.D.	0.0160
Cadmium	N.D.	0.0010
Chromium	N.D.	0.0053
Copper	N.D.	0.0062
Lead	N.D.	0.0071
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0031
Silver	N.D.	0.0050
Zinc	N.D.	0.0030
Batch number: 18284102101B	Sample number(s): 9846017	
Total Cyanide (water)	N.D.	0.0050
Batch number: 18289807901A	Sample number(s): 9846017-9846018	
HEM (oil & grease)	N.D.	1.4

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: U182881AA	Sample number(s): 9846017								
Benzene	20	20.01			100		65-135		
Ethylbenzene	20	21.41			107		60-140		

*- 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.

Quality Control Summary

Client Name: GES, Inc.
Reported: 10/22/2018 15:37

Group Number: 1997032

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
Naphthalene	20	19.89			99		60-140		
Toluene	20	21.45			107		70-130		
Xylene (total)	60	66.25			110		60-140		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 182900041A	Sample number(s): 9846017-9846019								
DRO C10-C28	2751.45	2651.07	2719.4	2449.6	96	90	27-118	8	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 182850571309	Sample number(s): 9846017								
Mercury	0.00100	0.000969			97		80-114		
Batch number: 182890184801	Sample number(s): 9846017								
Arsenic	0.150	0.148			98		80-120		
Cadmium	0.0500	0.0508			102		90-111		
Chromium	0.200	0.200			100		87-110		
Copper	0.250	0.250			100		90-115		
Lead	0.150	0.152			101		87-113		
Molybdenum	2.00	2.01			100		85-112		
Nickel	0.500	0.520			104		90-114		
Silver	0.0500	0.0568			114		80-120		
Zinc	0.500	0.497			99		89-111		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 18284102101B	Sample number(s): 9846017								
Total Cyanide (water)	0.200	0.190			95		90-110		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 18289807901A	Sample number(s): 9846017-9846018								
HEM (oil & grease)	40	33.6	40	37.4	84	94	78-114	11	13

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: 182850571309	Sample number(s): 9846017 UNSPK: 9846017									
Mercury	N.D.	0.00100	0.000782	0.00100	0.000759	78*	76*	80-120	3	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.

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Quality Control Summary

Client Name: GES, Inc.
Reported: 10/22/2018 15:37

Group Number: 1997032

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: 182850571309	Sample number(s): 9846017 BKG: 9846017			
Mercury	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: BTEX, Naphthalene
Batch number: U182881AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9846017	107	108	99	96
Blank	104	104	99	97
LCS	98	100	105	102
Limits:	60-140	60-140	60-140	60-140

Analysis Name: DRO micro-ext 8015B
Batch number: 182900041A

	Orthoterphenyl
9846017	61*
9846018	61*
9846019	61*
Blank	105
LCS	102
LCSD	97
Limits:	62-128

*- 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.

Environmental Analysis Request/Chain of Custody

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Acct. # 8340 Group # 1997032 Sample # 9846017-A

Client: Groundwater & Env. Services, Inc.					Matrix				Analyses Requested														For Lab Use Only	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS								Preservation Codes														SF #:	
Project Manager: Anne Ashley Bell	P.O. #: 0402919/53/220								H	-	-	N	N	B	H	-	-	-	-				SCR #:	
Sampler: Jeff Plummer	PWSID #:								Oil & Grease (EPA 1664A)	~~VOCs (EPA 624)~~ (8260) BTEX, Naphthalene	~~SVOCs (EPA 625, PPL list)~~	Metals (50 TOB) (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																								
Sample Identification	Collection Date	Collection Time	Grab	Composite	Sediment	Ground	Surface	Other:	Total # of Containers														Remarks	
Effluent	10-9-18	1100	X			X			9	X	X	✱	X	X	X	X							✱ Change	
Post OWS	10-9-18	1110	X			X			4	X						X							8260 to	
~~P&T Influent~~ (JP)	—	—	✱			✱										✱							EPA 624.1	
TPE Influent	10-9-18	1115	X			X			2							X							per D. Woodring.	
																							LF00593 10/12/18	

Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)	Relinquished by	Date	Time	Received by	Date	Time
	Jeff Plummer	10-10-18	0730	Donna Marple	10/10/18	7:30
Date results are needed:	Donna Marple	10/10/18	13:55	[illegible]	10/10/18	13:55
Rush results requested by (please check): E-Mail ☑ Phone ☐	[illegible]	10/10/18	18:30			
E-mail Address: seprregion@gesonline.com & ges@equisonline.com						
Phone:						
Data Package Options (please check if required)	Relinquished by:	Date	Time	Received by:	Date	Time
Type I (Validation/non-CLP) ☐ MA MCP ☐						
Type III (Reduced non-CLP) ☐ CT RCP ☐	Relinquished by:	Date	Time	Received by: [illegible]	10-10-18	1830
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐						
NYSDEC Category ☐ A or ☐ B	Relinquished by Commercial Carrier:			Temperature upon receipt 0.9 °C		
EDD Required? Yes ☑ No ☐ If yes, format: GES EQEDD	UPS ____ FedEx ____ Other ____					
EQEDD Name: NRG PRGS.*Lab report* #.25800.EQEDD.zip						

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Sample Administration Receipt Documentation Log

Doc Log ID: 229651

Group Number(s): 1997032

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	10/10/2018 18:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	MD		

Arrival Condition Summary

Shipping Container Sealed:	Yes	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 Melvin Sanchez (8943) at 19:11 on 10/10/2018

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	DT131	0.9	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:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	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.

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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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
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.
P^	Concentration difference between the primary and confirmation column > 40%. The higher 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.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

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.