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October 23, 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
GenOn Potomac River Generating Station
1400 North Royal Street
Alexandria, VA 22314
PC#2013-3154

Dear Mr. Wardle:

GenOn Potomac River LLC (PRGS) is pleased to submit the Quarterly CAP Implementation Monitoring Report (CMR).

The following activities were conducted during the Third Quarter of 2019:

- 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 August 19 - 22, 2019;
- Monthly flow meter certification submittals to Alexandria Renewal Enterprises (AlexRenew);
- Quarterly submittal of a Self-Monitoring Report (SMR) to AlexRenew; and
- Periodic cycling of the TPE system, with cycles starting when personnel were onsite for O&M.

The system was turned off on September 29, 2019. Based on groundwater concentrations measured during the third quarter 2019 along with declining system influent concentrations and a decrease in hydrocarbon recovery, the system will remain off at this time. Post-remedial monitoring will proceed for a minimum of eight quarters. During the first six months, groundwater wells with a history of light non-aqueous phase liquid (LNAPL) will be gauged on a monthly basis. If after six months no measureable LNAPL has been detected, monthly gauging will stop. Following eight quarters of monitoring, if dissolved groundwater concentrations remain steady or continue to decrease, and no measureable LNAPL has been detected, a final report and request for case closure will be submitted.

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

October 23, 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 Third Quarter 2019 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 3rd Quarter 2019:

- The biosparge system remained off during the 3rd Quarter 2019;
- The pump and treat (P&T) system remained off during the 3rd Quarter 2019;
- The total phase extraction (TPE) system operated during part of the 3rd Quarter 2019;
- Twice per month gauging of select wells;
- Comprehensive gauging of all accessible site groundwater wells on August 19, 2019;
- Down-well water quality measurements recorded on August 19-22, 2019 of select site groundwater wells to monitor dissolved oxygen, pH, temperature, oxidation-reduction potential (ORP) and conductivity;
- Quarterly groundwater sampling on August 19-22, 2019, 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 August 19, 2019 from select site groundwater wells to monitor for the presence of volatile organic compounds (VOCs), oxygen, carbon dioxide, and methane; and
- Quarterly submittal of Self-Monitoring Report (SMR) to Alexandria Renew Enterprise (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 operations and maintenance (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. The P&T system shut down on September 12, 2018 and could not be reactivated. The deep zone recovery wells (RW-05, RW-25, RW-51, and RW-14) were connected to the existing shallow zone TPE system between October 18, 2018 and November 1, 2018. Cycling of the TPE system with shallow and deep recovery wells is ongoing.

On October 10, 2018, 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 3rd Quarter 2019 sampling of Site monitoring and recovery wells. The following site characterization and monitoring activities were conducted during the 3rd Quarter 2019:

- July - September 2019:
  - Twice per month gauging of select groundwater wells.
- August 19, 2019:
  - Site-wide gauging and headspace vapor monitoring of select groundwater wells.
- August 19-22, 2019:
  - Gauging and groundwater sampling of accessible site groundwater wells in accordance with the Groundwater Monitoring and Sampling Plan.

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 3rd Quarter 2019, accessible site groundwater wells were gauged during a comprehensive gauging event in the 3rd Quarter 2019, in accordance with the Groundwater Monitoring and Sampling Plan. 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 3rd Quarter 2019 are summarized below:

- Gauging of select wells:
  - July 9, 2019
  - July 23, 2019
  - August 9, 2019
  - September 3, 2019
  - September 17, 2019
- Site-wide gauging of all accessible wells:

- August 19, 2019

Historical and 3rd Quarter 2019 groundwater and LNAPL elevation data are presented in **Table 3** – Historical Groundwater Monitoring and Analytical Data Summary.

Site-wide gauging was conducted on August 19, 2019 in accordance with the tidal cycle of the Potomac River. On August 19, 2019, high tide at the site occurred at 12:33 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 August 19, 2019, measured groundwater depths ranged from 1.05 feet below ground surface (bgs) in MW-105 to 27.38 feet bgs in MW/RW-14. LNAPL was not detected during 3rd Quarter 2019 monitoring activities.

Groundwater contour maps representing shallow zone and deep zone data, respectively, from the August 19, 2019 comprehensive gauging event are presented as **Figure 4** and **Figure 5.** The shallow zone groundwater contour map shows flow is generally to the east-southeast towards the Potomac River. The deep zone groundwater contour map shows flow is generally to the east-northeast towards the Potomac River. The calculated hydraulic gradient at the site was approximately 0.04 feet per foot in the shallow zone during the August 2019 monitoring event and 0.05 feet per foot in the deep zone.

2.1 Headspace Vapor Monitoring

Monitoring well vapor headspace readings were collected at select groundwater wells on August 19, 2019 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 August 19-22, 2019, groundwater samples were collected from 27 groundwater monitoring/ recovery wells (MW-01S, MW/RW-05, MW-08S, MW/RW-10S, MW/RW-14, MW-16, MW-25S, MW/RW-25, MW-27, MW/RW-31, MW-51S, MW/RW-51, MW-72S, MW/RW-72, MW-106, 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). During the 3rd Quarter 2019 sampling event, all sampled wells were sampled using low-flow sampling techniques in an attempt to normalize sample collection methods across the site (permanent wells and temporary wells) and to ensure that the sample results were indicative of groundwater concentrations only, without the contribution of any impacts adsorbed to suspended sediments. In addition, eight select wells (MW-01S, MW-08S, MW/RW-25, MW/RW-51, MW-121, RW-05S, TW-05, and TW-06) were also sampled using a three purge volume sampling method, as has been the sampling method used at the site for the permanent wells prior to the 1st Quarter 2019 sampling event. These additional samples were used for comparison to the low-flow sampling results. Monitoring wells MW-108and TW-12S were not sampled during the 3rd Quarter 2019 sampling event due to insufficient water. The groundwater monitoring and sampling plan used this quarter is presented in **Table 2**.

Each monitoring well was gauged prior to sampling, and gauging data are presented in **Table 3**. Prior to the collection of groundwater samples, water was pumped from the well until field parameters, temperature, pH, specific conductivity, dissolved oxygen, and oxidation-reduction potential stabilized.

Purge water was stored in drums onsite and will be removed by Triumvirate Environmental for treatment and disposal at a later date, tentatively scheduled for November. 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)
- Biological indicator parameters (select wells)
    - Alkalinity
    - Nitrate (NO_3^-)
    - Nitrite (NO_2^-)
    - Manganese (Mn^{2+})
    - Ferrous Iron (Fe^{2+})
    - Sulfate (SO_4^{2-})
    - Methane

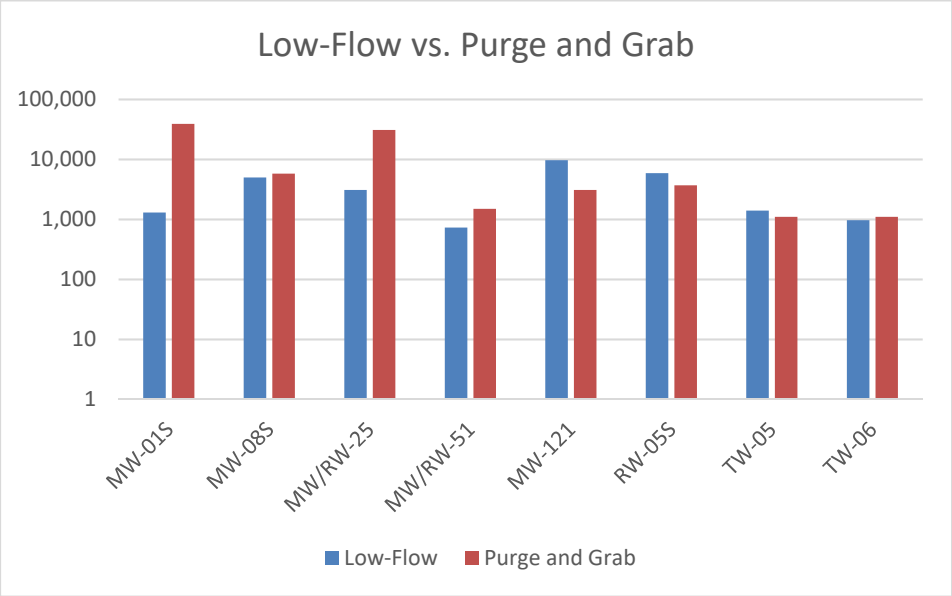
TPH-DRO analytical results are presented in the Historical Groundwater Monitoring and Analytical Data Summary included as **Table 3** and discussed further in **Section 2.3**. Concentration trend graphs are included as **Attachment A** and discussed further in **Section 2.3**. The analytical results 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**. Trend graphs for the biostimulation data are included as **Attachment B**.

The complete laboratory reports and chain of custody documentation for the groundwater sampling event conducted in August 2019 are included in **Attachment C**.

2.3 Groundwater Analytical Findings

During the 3rd Quarter 2019, 34 monitoring, recovery and temporary wells were sampled for TPH-DRO during the quarterly groundwater sampling event in August. 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 3rd Quarter 2019 sampling event, are presented as **Figure 6** and **Figure 7**. The results from the collection and analysis of groundwater samples during the 3rd Quarter 2019 are presented below:

- TPH-DRO was detected in 26 of the 27 groundwater monitoring wells sampled during the quarterly sampling event in May. The maximum detected concentration for samples collected by low-flow sampling was 14,000 micrograms per liter (µg/L) in well RW-25S.
- TPH-DRO was detected in six temporary wells sampled (TW-03, TW-04, TW-05, TW-06, TW-07, and TW-14), with a maximum concentration of 2,100 µg/L in temporary well TW-14.
- TPH-DRO was detected in all eight wells (MW-01S, MW-08S, MW/RW-25, MW/RW-51, MW-121, RW-05S, TW-05, and TW-06) that were also sampled using a traditional purge and grab sampling method. The maximum concentration of TPH-DRO detected using the purge and grab method was 39,000 µg/L, in monitoring well MW-01S. With the exception of monitoring wells MW-121, RW-05S and TW-05, concentrations of TPH-DRO were higher in the samples collected using the purge and grab method than when sampled using low-flow, as shown in the chart below.



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. TPH-DRO concentrations based on traditional purge and grab sampling are plotted separately from TPH-DRO concentrations obtained using low-flow sampling. Trends observed as of 3rd Quarter 2019 are presented below:

- TPH-DRO concentrations have an overall increasing trend in wells MW/RW-25, MW/RW-72, and RW-118S; however, a recent decreasing trend is apparent in RW-118S.
- TPH-DRO concentrations have an overall decreasing trend in wells MW-01S, MW/RW-05, MW/RW-10S, MW/RW-14, MW-25S, MW-27, MW/RW-31, RW-05S, RW-25S, RW-28S, RW-30S, MW/RW-51, MW-106, RW-116S, MW/RW-123S, TW-05, TW-06, and TW-07.
- TPH-DRO concentrations are relatively stable overall in wells RW-1, MW-08S, MW-51S, MW/RW-72S, RW-117S, RW-119S, MW-121, MW-122, TW-03, and TW-04; however, a recent decreasing trend is apparent in most of these wells.
- 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, MW-121, TW-03, TW-04, TW-05, TW-06, and TW-07. A relatively stable trend is observed in wells MW/RW-10S, MW-106, and MW-122.
- 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, MW/RW-72, and MW-121. Wells MW/RW-10S, MW-27, MW-106, MW-122, TW-03, TW-04, TW-05, TW-06, and TW-07 have an overall stable or decreasing trend with low or non-detect concentrations.

In general, the low-flow data collected during the 3rd Quarter 2019 appear to be generally consistent with the purge and grab data collected historically. The low-flow values tend to follow the recent trends seen using purge and grab. On the samples where duplicates were collected using both methods, the low-flow data were usually lower in concentration, with the exception of MW-121, RW-05S and TW-05,, where the concentration from the low-flow sampling was higher than that from the purge and grab sampling. A significant difference in concentrations was observed at MW-01S and MW/RW-25 when comparing the two sampling methods. The low flow sampling results (1,300 and 3,100 µg/L, respectively) were an order of magnitude lower than the purge and grab results (39,000 and 31,000 µg/L, respectively).

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.** Monitored natural attenuation trend graphs are included as **Attachment B.**

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 generally changed from anaerobic to aerobic. Following trial system shutdown in March 2018, site conditions began to revert to baseline or anaerobic conditions. Current cycling of the total phase extraction system is not resulting in the aerobic conditions observed during full time operation of the complete system. 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 3rd Quarter 2019, DO concentrations were considered anaerobic (< 1.0 mg/L) in 13 of the 14 shallow zone aquifer wells measured (MW-01S, MW-08S, MW/RW-10S, MW-25S, MW-51S, MW/RW-72S, MW/RW-123S, RW-05S, RW-25S, RW-28S, RW-116S, RW-117S, and RW-119S) and in 13 of 18 deep zone wells measured (MW/RW-05, MW/RW-14, MW/RW-25, MW-27, MW/RW-31, MW/RW-51, MW/RW-72, MW-106, MW-121, MW-122, RW-1, TW-02, and TW-06).

ORP

- ORP values were positive in 2 of the 15 measured shallow zone aquifer wells (MW/RW-72S and RW-30S) and in 10 of the 18 measured deep zone aquifer wells (MW/RW-14, MW-16, MW/RW-25, MW/RW-51, MW/RW-72, MW-106, TW-04, TW-05, TW-06, and TW-07) during the quarterly groundwater monitoring event in August. Positive ORP values are indicative of aerobic conditions. The results show some discrepancies between the DO and ORP values; however, in general the data suggest that the system was not contributing excessive oxygen to the subsurface.

Alkalinity

- Alkalinity concentrations generally remained stable or increased during the 3rd Quarter 2019. However, alkalinity was not detected in 7 of the 26 wells where it was measured (MW/RW-72S, MW/RW-72, MW-106, TW-03, TW-05, TW-06, and TW-07). Three of these wells, TW-03, TW-06, and TW-07, switched from having detections of alkalinity during the 2nd Quarter 2019, to no detections during the 3rd Quarter 2019. Two additional wells, MW/RW-14 and MW/RW-51, showed continued declines in alkalinity during the 3rd Quarter 2019. Loss of alkalinity is indicative of acid production in the subsurface. Alkalinity concentrations will continue to be monitored.

pH

- Measured pH in site wells was generally above 5.0 during the 3rd Quarter 2019, with only five wells having measured pH below 5.0 (MW/RW-72S, MW/RW-72, MW-106, TW-05, and TW-07). Since the recovery wells did not show significant declines in pH, cycling of the wells continued during the 3rd Quarter 2019. Maps showing pH levels in the shallow and deep wells, respectively, are provided as **Figure 8** and **Figure 9**.

Nitrate

- Nitrate was detected in none of the shallow zone aquifer wells where it was measured and in three of the thirteen deep zone aquifer wells where it was measured (MW/RW-14, MW/RW-72, and TW-07).

Nitrite

- Nitrite, an intermediate in denitrification, was detected in one of the shallow zone aquifer wells where it was measured (MW/RW-72S) and in five of the deep zone aquifer wells where it was measured (MW-27, MW/RW-51, TW-03, TW-05, and TW-07). Based on the nitrate and nitrite data, nitrate reduction is not a significant mechanism of anaerobic degradation at the site.

Manganese

- With the exceptions of MW-01S and MW/RW-51, concentrations of dissolved manganese are generally stable or decreasing across the site, suggesting manganese reduction is not currently a significant mechanism of anaerobic degradation.

Ferrous Iron

- Ferrous iron remained generally stable in the shallow zone during the 3rd Quarter 2019 indicating that iron reduction is not a significant mechanism of biodegradation in the shallow zone. However, some increases in ferrous iron were observed in deep zone wells, suggesting that iron reduction is occurring in some parts of the deep aquifer.

Sulfate

- Sulfate concentrations remained generally high during the 3rd Quarter 2019, although a number of wells showed decreasing concentrations, suggesting sulfate reduction is contributing to anaerobic biodegradation at the site. As noted in previous reports, the predominance of sulfur in the system is likely associated with historical power plant operations. When combined with oxygen, high concentrations of sulfur may reduce pH by conversion to sulfuric acid and/or sulfurous acid. Increased concentrations of sulfate were observed in recovery wells RW-25S, MW-106, TW-06, and TW-07. **Figures 10** and **11** show sulfate concentrations in shallow and deep zone wells, respectively.

Methane

- Methane concentrations across the site are generally lower than historical levels; however, concentrations of methane have been recently increasing in wells MW/RW-25, MW-27, MW-51S, MW/RW-72S, MW/RW-72, MW-106, MW-121, MW-122, TW-05, TW-06, and TW-07. Methanogenesis is likely playing a role in anaerobic degradation in some areas of the site.

2.4 Bulkhead Seep Inspection

During the 3rd Quarter 2019 monitoring event, the bulkhead at the edge of the site along the shore of the Potomac River was inspected for seeps from a distance. No evidence of seeps was noted. The inspection was completed from the shore by TW-07 and south of MW-103, the closest locations to the bulkhead on land. This was completed near low tide so as to have the maximum amount of the bulkhead visible. Photographs from the inspection are presented in **Attachment D.**

3 REMEDIATION SYSTEM OPERATION

Portions of the remediation system operated during the 3rd Quarter 2019, 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 12**). The TPE system operated during a portion of the 3rd Quarter 2019, 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 3rd Quarter 2019 was from July 9, 2019 to September 29, 2019, and was controlled by the O&M schedule. Activities of note completed during the 3rd Quarter 2019 included:

- Bi-monthly gauging/O&M visits were performed on July 9 and 23, August 9 and 22, and September 3 and 17, 2019.
- The Quarterly Self-Monitoring Report (SMR) for the 3rd Quarter 2019 was submitted to AlexRenew by October 10, 2019.
- On July 23, 2019, the TPE system was down due to a transfer pump problem. Maintenance and repairs were conducted July 26 and August 9, 2019 and the TPE system was restarted on August 9, 2019.
- On August 22, 2019, TPE well RW-117S was turned on after pH recovered.
- On September 4, 2019, the TPE system was restarted following a power outage.

The TPE system operated for approximately 49 days during the reporting period. TW-05 was temporarily connected to the TPE system during 5 days of the reporting period, operating for approximately 5 hours each event. The average vapor flow rate for the reporting period was 338 standard cubic feet per minute (scfm). The total groundwater recovered for the reporting period was 218,080 gallons with an average flow rate of 3.09 gallons per minute (gpm). No LNAPL was recovered by the oil/water separator. The cumulative groundwater flow, including flow data from before the trial system shutdown, was 888,325 gallons by the end of the reporting period. The estimated vapor C1-C10 hydrocarbon recovery for the reporting period was 19.1 pounds (lbs), and the estimated groundwater TPH-DRO recovery for the reporting period was 16.2 lbs. A TPE Operational Summary is included as **Table 6**, TPE recovery data are included in **Table 9**, system performance graphs are included in **Attachment E** and system analytical reports are included in **Attachment F**. The system performance graphs indicate that system influent concentrations and the hydrocarbon recovery rate have both generally been decreasing since the beginning of the 3rd Quarter of 2018 when the system was restarted.

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. A P&T Operational Summary is included as **Table 7** and P&T recovery data are included in **Table 9.**

The biosparge system was not operated during the reporting period. A Biosparge Operational Summary is included as **Table 8.**

The total estimated hydrocarbon recovery to date is 3,302 lbs (451 gallons). This includes 199 lbs of dissolved-phase, 3,018 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 9**.

Hydrocarbon Recovery:

Dissolved-Phase Hydrocarbons (Period/Cumulative): **16.2 lbs / 199 lbs**

Vapor-Phase Hydrocarbons (Period/Cumulative): **19.1 lbs / 3,018 lbs**

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

Total Hydrocarbon Recovery (Period/Cumulative): **35.3 lbs / 3,302 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. The system was officially shut down during the O&M visit on March 29, 2018.

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.

In the 3rd Quarter 2018, 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. The deep zone pumping wells (RW-05, RW-25, RW-51 and RW-14) were subsequently connected to the existing shallow zone TPE system.

3rd Quarter 2019 System Operation

The system continued to be periodically cycled, with cycles starting when personnel were onsite for routine O&M. The TPE system cycle duration was approximately one week twice per month. Select wells were briefly turned off due to low pH.

Future System Operation

The system was shut down on September 29, 2019. Based on the results from the 3rd Quarter 2019 sampling, it is recommended that the system be left off and the site enter a phase of monitored natural attenuation as outlined in the Corrective Action Plan – Part II, dated December 2014. During the 3rd Quarter 2019, no wells exceeded the remedial goal for TPH-DRO of 15 mg/L when sampled via low-flow sampling methods. Only two wells (MW-01S and MW/RW-25) exceeded the remedial goal for TPH-DRO when sampled using the purge and grab method. These two wells are located in the source area. Measurable LNAPL has not been observed since August 2018. TPH-DRO concentrations in wells located along the Potomac River are all well below the goal of 15 mg/L TPH-DRO.

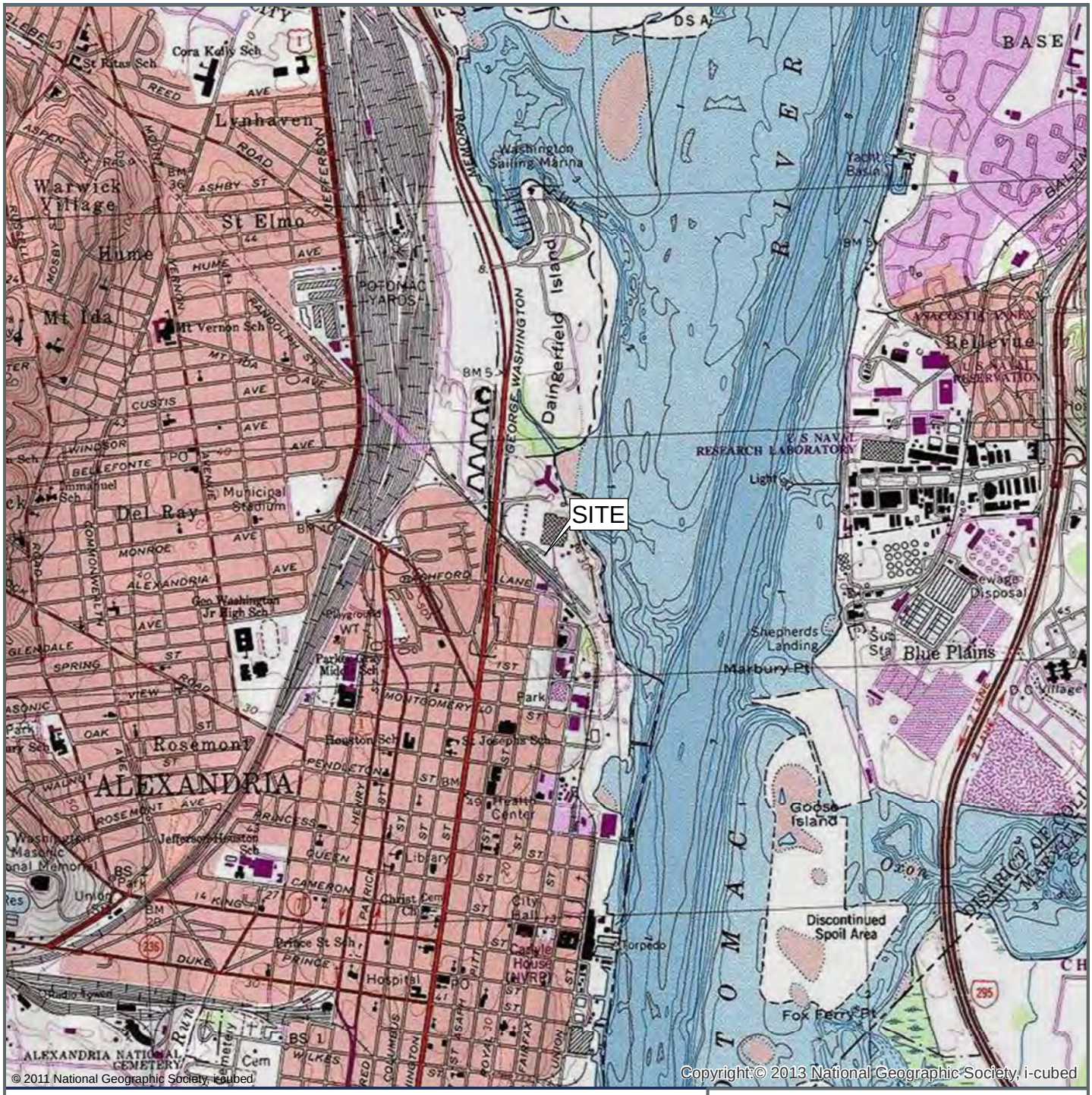
In accordance with the CAP Approval letter dated March 17, 2015, monitored natural attenuation will continue for a minimum of eight quarters. While in this period of monitored natural attenuation, the groundwater conditions will be continuously evaluated to look for indications of significant rebound in the groundwater concentrations or evidence of LNAPL. Wells will be gauged on a monthly basis for a period of six months to ensure that LNAPL has not returned. After six months without LNAPL, well gauging will only be completed during quarterly monitoring events. If over the next eight quarters no LNAPL returns and groundwater concentrations remain stable or continue to decline, a final report and request for case closure will be submitted.

5 Future Activities (4th Quarter 2019)

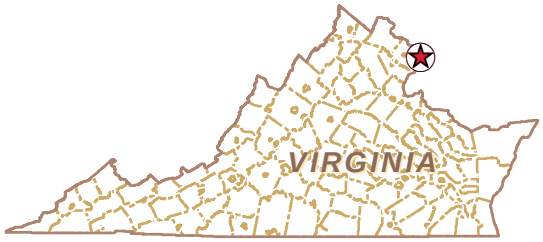
- Monthly gauging of wells that have historically shown the presence of LNAPL;

- Quarterly groundwater sampling using low-flow sampling methods (with grab samples also collected from select wells);
- Submittal of a quarterly CMR;
- Submittal of monthly emails to AlexRenew indicating no flow; 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
GKS

Designed
DMC

Approved
AAB

Date
4-17-18

Figure
1

N
W E
S

Scale In Feet (Approximate)
0 2,000

GES®
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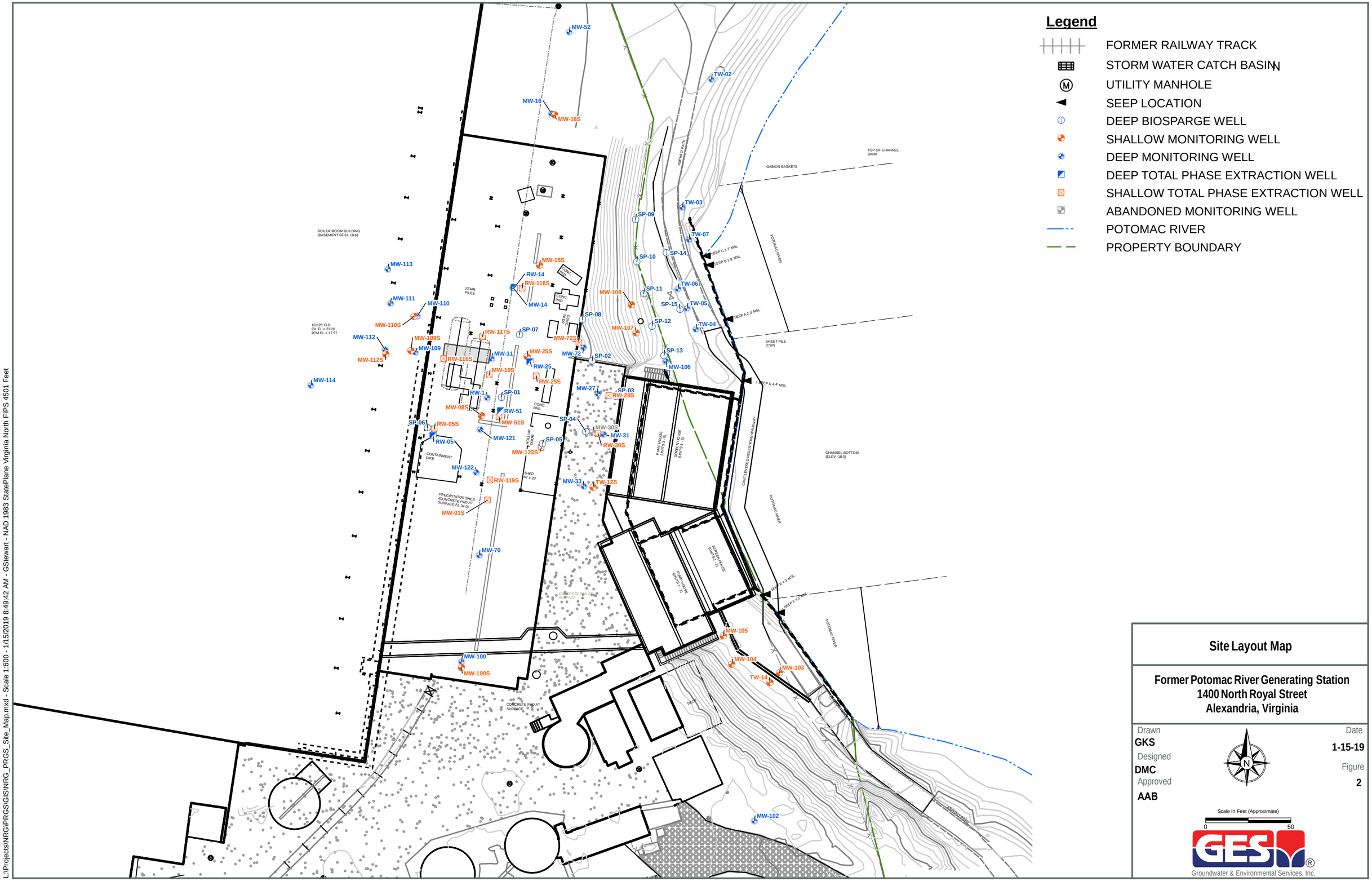


L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Site_Map.mxd - Scale 1:600 - 1/15/2019 8:49:42 AM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet

Site Layout Map

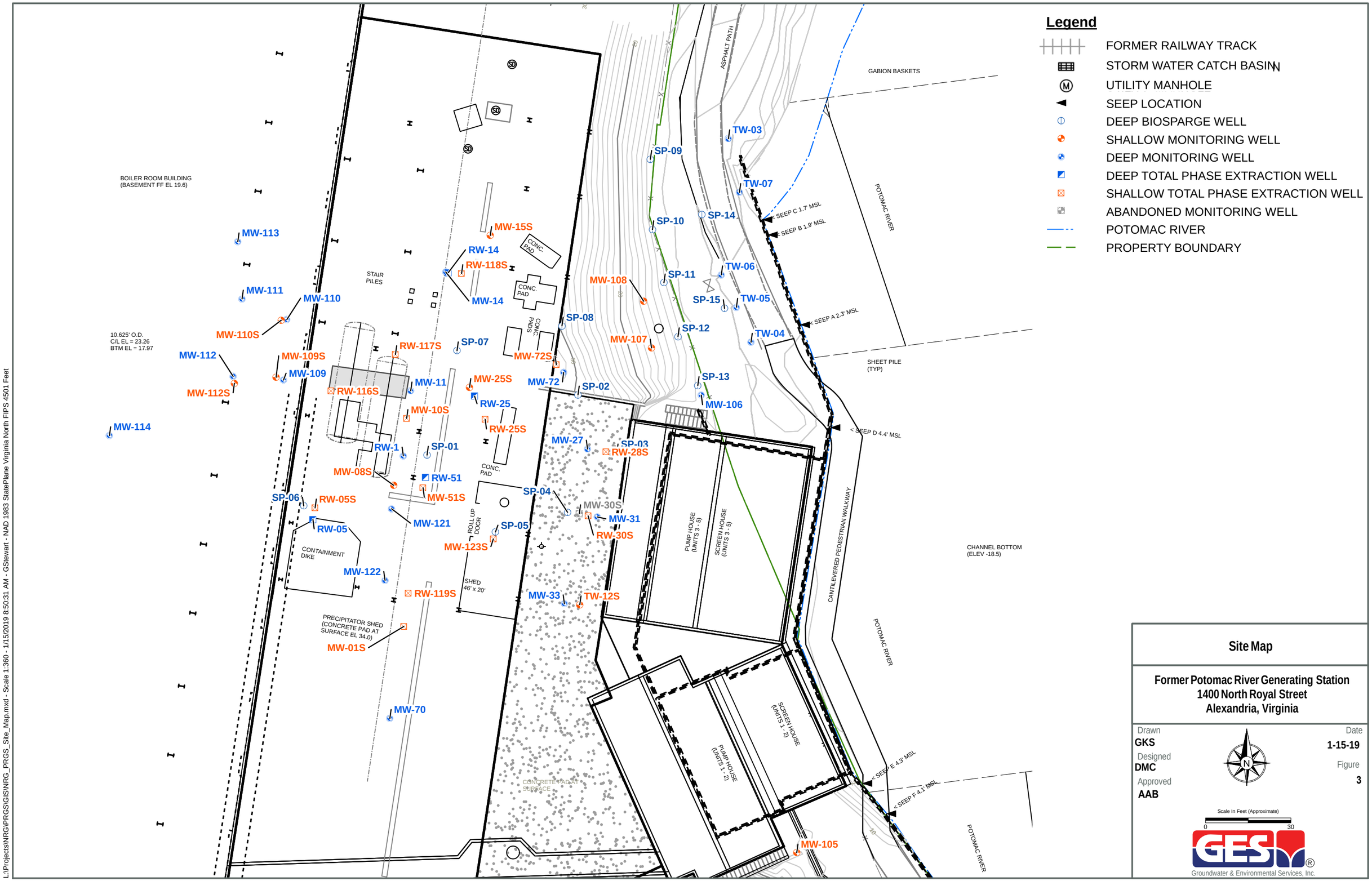
Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia

Drawn
GKS
Designed
DMC
Approved
AAB

Date
1-15-19
Figure
2

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.


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
BOILER ROOM BUILDING (BASEMENT FF EL 19.6)
10.625' O.D. C/L EL = 23.26 BTM EL = 17.97
STAIR PILES
CONC. PAD
CONC. PADS
ASPHALT PATH
GABION BASKETS
POTOMAC RIVER
SEEP C 1.7' MSL
SEEP B 1.9' MSL
SEEP A 2.3' MSL
SEEP D 4.4' MSL
SEEP E 4.3' MSL
SEEP F 4.1' MSL
SHEET PILE (TYP)
CHANNEL BOTTOM (ELEV -18.5)
CANTILEVERED PEDESTRIAN WALKWAY
PUMP HOUSE (UNITS 3 - 5)
SCREEN HOUSE (UNITS 3 - 5)
SCREEN HOUSE (UNITS 1 - 2)
PUMP HOUSE (UNITS 1 - 2)
ROLL UP DOOR
SHED 46' x 20'
CONTAINMENT DIKE
PRECIPITATOR SHED (CONCRETE PAD AT SURFACE EL 34.0)
CONCRETE PAD AT SURFACE
MW-113
MW-111
MW-110
MW-110S
MW-112
MW-109S
MW-109
MW-112S
MW-114
RW-116S
MW-11
MW-10S
RW-1
SP-01
MW-08S
RW-51
MW-51S
SP-06
RW-05S
RW-05
MW-121
MW-122
RW-119S
MW-01S
MW-70
SP-07
RW-117S
MW-15S
RW-14
RW-118S
MW-14
SP-08
MW-72S
MW-72
SP-02
MW-25S
RW-25
RW-25S
MW-27
SP-03
RW-28S
SP-04
MW-30S
MW-31
RW-30S
SP-05
MW-123S
MW-33
TW-12S
MW-108
MW-107
SP-09
SP-10
SP-11
SP-12
SP-13
MW-106
SP-14
SP-15
TW-03
TW-07
TW-06
TW-05
TW-04
MW-105
Site Map
Former Potomac River Generating Station
1400 North Royal Street
Alexandria, Virginia
Drawn
GKS
Designed
DMC
Approved
AAB
Date
1-15-19
Figure
3
N
Scale In Feet (Approximate)
0
30
GES
Groundwater & Environmental Services, Inc.
L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Site_Map.mxd - Scale 1:360 - 1/15/2019 8:50:31 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 TOTAL PHASE EXTRACTION WELL
- SHALLOW TOTAL PHASE EXTRACTION WELL
- ABANDONED MONITORING WELL
- APPROXIMATE SOIL BORING LOCATION
- GROUNDWATER CONTOUR (FT)
- DASHED WHERE INFERRED
- POTOMAC RIVER
- PROPERTY BOUNDARY
- (9.31) GROUNDWATER ELEVATION (FT)
- NG NOT GAUGED

Potentiometric Surface
Shallow Zone Aquifer - August 19, 2019

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

Drawn **GKS**
Designed **DMC**
Approved **AAB**

Date **10/16/19**
Figure **4**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_GW_Contours_3Q2019.mxd - Scale 1:593 - 10/16/2019 11:30:57 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 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
- (3.62) GROUNDWATER ELEVATION (FT)
- NG NOT GAUGED

Potentiometric Surface
Deep Zone Aquifer - August 19, 2019

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

Drawn
AMW
Designed
DMC
Approved
AAB

Date
10/16/19
Figure
5

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_GW_Contours_3Q2019.mxd - Scale 1:600 - 10/16/2019 11:21:16 AM - GStewart - NAD 1983 StatePlane Virginia North FIPS 4501 Feet

Legend

- FORMER RAILWAY TRACK
- STORM WATER CATCH BASIN
- UTILITIY MANHOLE
- SEEP LOCATION
- DEEP BIOSPARGE WELL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- DEEP 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)
- * WHERE BOTH LOW FLOW AND PURGE AND GRAB SAMPLING WAS CONDUCTED, THE LOW FLOW SAMPLING DATA IS USED

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

2) µg/L: Micrograms per liter

TPH-DRO Concentration Contours
Shallow Zone Aquifer - Third Quarter 2019

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

Drawn **GKS**
Designed **DMC**
Approved **AAB**

Date **10/16/19**
Figure **6**

N

Scale In Feet (Approximate)
0 50

GES
Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_TPHDRO_3Q2019.mxd - Scale 1:600 - 10/16/2019 12:09:13 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)
- * WHERE BOTH LOW FLOW AND PURGE AND GRAB SAMPLING WAS CONDUCTED, THE LOW FLOW SAMPLING DATA IS USED

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

2) µg/L: Micrograms per liter

3) < : Analyte detected below the method detection limit

4) J: Analyte detected between the method detection limit and reporting limit, therefore result is an estimated value

TPH-DRO Concentration Contours
Deep Zone Aquifer - Third Quarter 2019

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

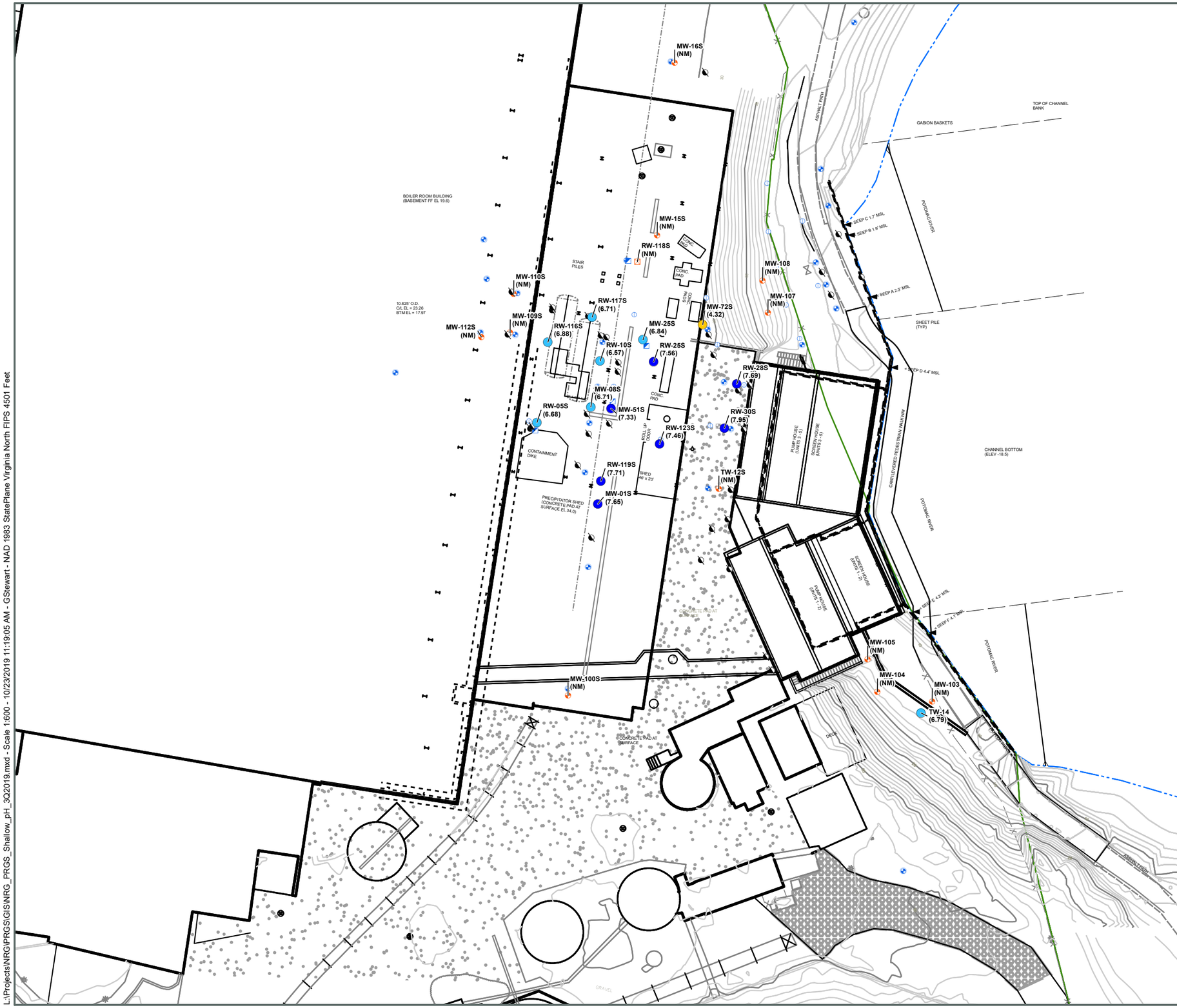
Drawn **GKS**
Designed **DMC**
Approved **AAB**

Date **10/7/19**
Figure **7**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_TPHDRO_3Q2019.mxd - Scale 1:600 - 10/7/2019 10:04:05 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

(7.69) pH OBSERVATION (S.U.)

(NM) NOT MEASURED

Note:
S.U.: Standard Units

pH Levels Shallow Zone Aquifer
Third Quarter 2019

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

Drawn **GKS**
Designed **DMC**
Approved **AAB**

Date **10/23/19**
Figure **8**

Scale In Feet (Approximate)
0 50

Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_pH_3Q2019.mxd - Scale 1:600 - 10/23/2019 11:19:05 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

(7.24) pH OBSERVATION (S.U.)

(NM) NOT MEASURED

Note:
S.U.: Standard Units

pH Levels Deep Zone Aquifer
Third Quarter 2019

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

Drawn **GKS**
Designed **DMC**
Approved **AAB**

Date **10/16/19**
Figure **9**

N

Scale In Feet (Approximate)
0 50

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L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_pH_3Q2019.mxd - Scale 1:600 - 10/16/2019 11:33:49 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 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

(197) SULFATE CONCENTRATION (mg/L)

(NS) NOT SAMPLED

Note:
mg/L: Milligrams per liter

Sulfate Concentration Shallow Zone Aquifer - Third Quarter 2019

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

Drawn **GKS**
Designed **DMC**
Approved **-**

Date **10/7/19**
Figure **10**

Scale In Feet (Approximate)
0 50

GES
Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Shallow_Sulfate_3Q2019.mxd - Scale 1:600 - 10/7/2019 12:49:29 PM - 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 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

(1,340) SULFATE CONCENTRATION (mg/L)

(NS) NOT SAMPLED

Note:
mg/L: Milligrams per liter

Sulfate Concentration Deep Zone Aquifer - Third Quarter 2019

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

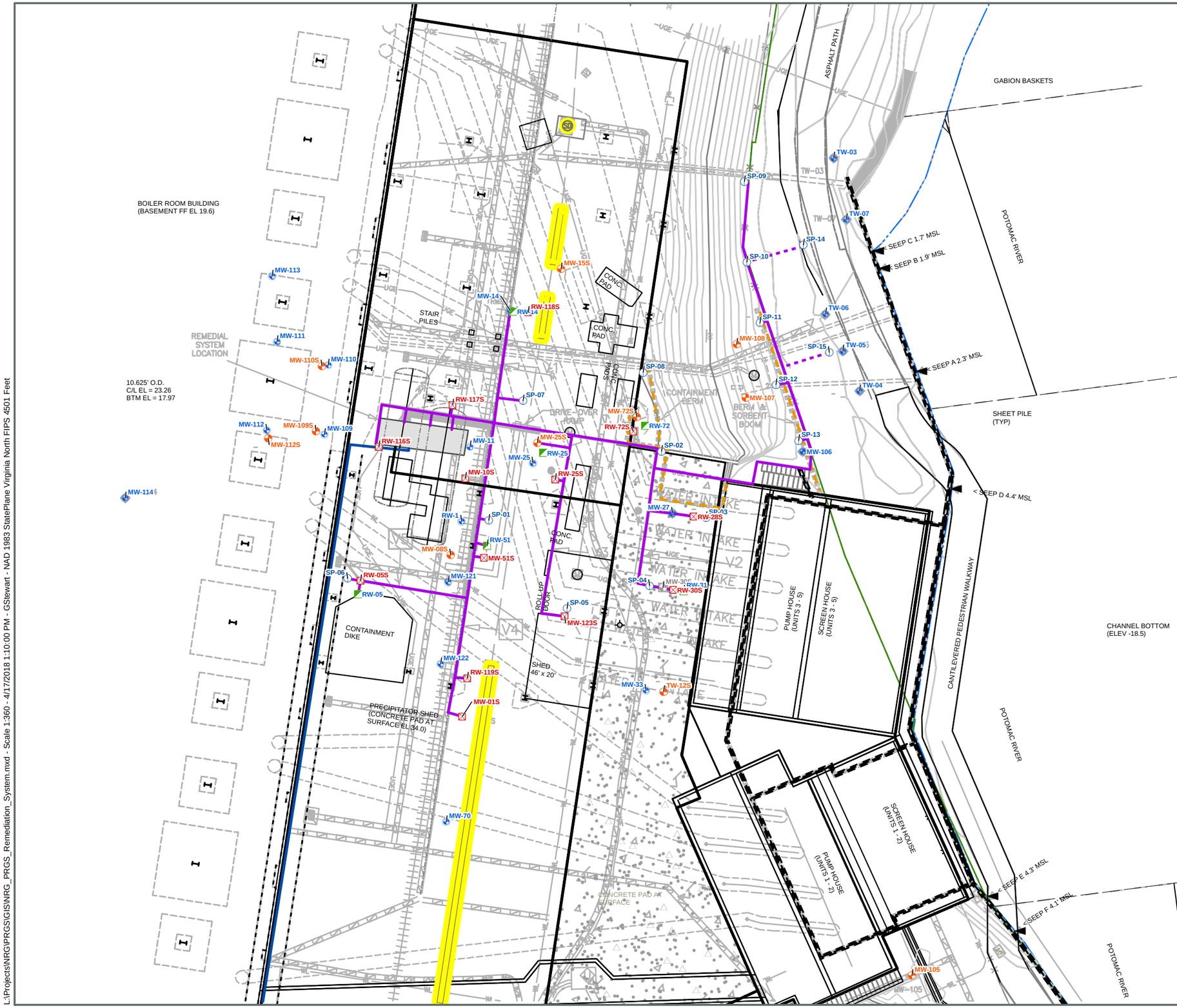
Drawn **GKS**
Designed **DMC**
Approved **-**

Date **10/7/19**
Figure **11**

Scale In Feet (Approximate)
0 50

GES
Groundwater & Environmental Services, Inc.

L:\Projects\NRG\PRGS\GIS\NRG_PRGS_Deep_Sulfate_3Q2019.mxd - Scale 1:600 - 10/7/2019 12:57:59 PM - 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
- 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**
Designed **DMC**
Approved **AAB**

Date **4-17-18**
Figure **12**

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

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1400 North Royal St
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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

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1400 North Royal St
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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

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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)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} & Nitrite NO^{-2}(EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
MW-01S	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF, P&S	
MW-05 / RW-05	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-08S	Shallow									X							LF	
MW-10S / RW-10S	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-11	Deep																NS	
MW-14 / RW-14	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-15S	Shallow																NS	
MW-16S	Shallow																NS	
MW-16	Deep	X								X							LF	
MW-25S	Shallow	X								X	X						LF	
MW-25 / RW-25	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF, P&S	
MW-27	Deep	X	X	X	X	X	X	X	X	X	X						LF	
MW-31 / RW-31	Deep									X							LF	
MW-33	Deep																NS	
MW-51S	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-51 / RW-51	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF, P&S	
MW-52	Deep																NS	
MW-70	Deep																NS	
MW-72S /RW-72S	Shallow	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-72 / RW-72	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-100S	Shallow																NS	

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		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)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} & Nitrite NO^{-2}(EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
MW-100	Deep																NS	
MW-102	Deep																NS	
MW-103	Shallow																NS	
MW-104	Shallow																NS	
MW-105	Shallow																NS	
MW-106	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-107	Shallow																NS	
MW-108	Shallow									X							LF	
MW-109S	Shallow																P&S	basement wells (not sampled this quarter)
MW-109	Deep																P&S	
MW-110S	Shallow																P&S	
MW-110	Deep																P&S	
MW-111	Deep																P&S	
MW-112S	Shallow																P&S	
MW-112	Deep																P&S	
MW-113	Deep																P&S	
MW-114	Deep																P&S	
MW-121	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF, P&S	
MW-122	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
MW-123S / RW-123S	Shallow	X	X	X	X	X	X	X	X	X	X				X		LF	
TW-02	Deep																NS	
TW-03	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
TW-04	Deep									X							LF	
TW-05	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	
TW-06	Deep	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	LF	

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Potomac River Generating Station
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		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)**	**Alkalinity (SM 2320B)**	**Nitrate NO_3^{-1} & Nitrite NO^{-2}(EPA 353.2)**	**Manganese (Mn2+)**	**Ferrous Iron Fe^{2+} (SM 3500-Fe B modified-1997)**	**Sulfate SO_4^{2-} (EPA 300.0)**	**Methane (RSKSOP-175 modified)**	**Sample Method**	**Comments**
TW-07	Deep	X	X	X	X	X	X	X	X	X	X				X		LF	
TW-12S	Shallow									X							LF	
TW-14	Shallow									X							LF	
RW-1	Deep	X	X	X	X	X	X	X	X	X	X				X		LF	
RW-05S	Shallow	X	X	X	X	X	X	X	X	X	X				X		LF, P&S	
RW-25S	Shallow	X	X	X	X	X	X	X	X	X	X				X		LF, P&S	
RW-28S	Shallow	X	X	X	X	X	X	X	X	X	X				X		LF	
RW-30S	Shallow	X	X	X	X	X	X	X	X	X							LF	
RW-116S	Shallow	X	X	X	X	X	X	X	X	X	X				X		LF	
RW-117S	Shallow	X	X	X	X	X	X	X	X	X	X						LF	
RW-118S	Shallow									X	X				X		LF	
RW-119S	Shallow									X	X				X		LF	

Notes:

Select annual samples were collected during the 4th quarter of 2015. Moving forward, annual sampling to be completed in the 4th quarter of a year.
** - Wells with LNAPL will only be sampled when no measurable LNAPL is observed.
Q - Quarterly sampling frequency
A - Annual sampling frequency
P&S - Purge and Sample
LF - Low Flow Sampling
NS - No Sampling Planned

Table 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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-01S	01/24/2019	32.40	27.47	-	-	-	-	4.93	13:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/11/2019	32.40	22.62	-	-	-	27.60	9.78	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	02/12/2019	31.04	21.84	-	-	-	-	9.20	9:45	-	-	-	-	-	-	-	-	-	-	-	840	
MW-01S	02/15/2019	32.40	22.62	-	-	-	-	9.78	9:15	-	-	-	-	-	-	-	-	-	-	-	1,900	Grab
MW-01S	02/21/2019	32.40	22.81	-	-	-	-	9.59	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/07/2019	32.40	22.10	-	-	-	-	10.30	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	03/19/2019	32.40	22.83	-	-	-	-	9.57	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/02/2019	32.40	22.53	-	-	-	-	9.87	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	04/22/2019	32.40	22.70	-	-	-	-	9.70	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/06/2019	32.40	22.91	-	-	-	-	9.49	8:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	05/20/2019	32.40	22.87	-	-	-	28.03	9.53	10:04	-	-	-	-	-	-	-	-	-	-	-	3,100	
MW-01S	05/20/2019	32.40	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,700	Grab
MW-01S	06/04/2019	32.40	22.95	-	-	-	-	9.45	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	06/18/2019	32.40	22.88	-	-	-	-	9.52	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/09/2019	32.40	22.33	-	-	-	-	10.07	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	07/23/2019	32.40	22.25	-	-	-	-	10.15	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/09/2019	32.40	22.27	-	-	-	-	10.13	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/19/2019	32.40	23.22	-	-	-	27.82	9.18	11:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	08/20/2019	31.04	22.46	-	-	-	26.65	8.58	12:43	-	-	-	-	-	-	-	-	-	-	-	1,300	
MW-01S	08/21/2019	32.40	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39,000	Grab
MW-01S	09/03/2019	32.40	23.45	-	-	-	-	8.95	8:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-01S	09/17/2019	32.40	23.72	-	-	-	-	8.68	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/24/2014	30.86	26.59	-	-	-	-	4.27	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-08S	07/31/2014	30.86	22.08	-	-	-	24.35	8.78	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	02/15/2016	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-08S	02/11/2019	30.86	21.10	-	-	-	24.74	9.76	10:35	-	-	-	-	-	-	-	-	-	-	-	3,900	
MW-08S	05/20/2019	30.86	21.32	-	-	-	-	9.54	9:45	-	-	-	-	-	-	-	-	-	-	-	5,600	
MW-08S	05/20/2019	30.86	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,100	Grab
MW-08S	08/19/2019	30.86	21.37	-	-	-	25.35	9.49	9:51	-	-	-	-	-	-	-	-	-	-	-	5,000	
MW-08S	08/21/2019	30.86	21.32	-	-	-	24.68	9.54	9:25	-	-	-	-	-	-	-	-	-	-	-	5,800	Grab
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	09/22/2014	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
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	31.24	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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

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	05/11/2015	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
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	10/20/2016	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	05/21/2018	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	
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/RW-10S	01/24/2019	32.82	26.50	-	-	-	-	6.32	13:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/11/2019	32.82	22.91	-	-	-	27.50	9.91	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	02/15/2019	32.82	22.94	-	-	-	-	9.88	8:55	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW/RW-10S	02/21/2019	32.82	22.86	-	-	-	-	9.96	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	03/07/2019	32.82	24.84	-	-	-	29.48	7.98	9:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	03/19/2019	32.82	24.37	-	-	-	-	8.45	9:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/02/2019	32.82	24.07	-	-	-	-	8.75	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	04/22/2019	32.82	24.35	-	-	-	-	8.47	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/06/2019	32.82	23.30	-	-	-	-	9.52	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/20/2019	32.82	24.42	-	-	-	-	8.40	11:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	05/22/2019	32.82	23.02	-	-	-	-	9.80	12:58	-	-	-	-	-	-	-	-	-	-	-	12,000	
MW/RW-10S	06/04/2019	32.82	24.49	-	-	-	-	8.33	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	06/18/2019	32.82	24.53	-	-	-	-	8.29	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/RW-10S	07/09/2019	32.82	24.01	-	-	-	-	8.81	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	07/23/2019	32.82	23.80	-	-	-	-	9.02	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/09/2019	32.82	23.02	-	-	-	-	9.80	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/19/2019	32.82	22.94	-	-	-	27.27	9.88	11:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	08/21/2019	31.24	21.95	-	-	-	26.68	9.29	11:39	-	-	-	-	-	-	-	-	-	-	-	11,000	
MW/RW-10S	09/03/2019	32.82	24.57	-	-	-	-	8.25	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-10S	09/17/2019	32.82	24.80	-	-	-	-	8.02	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/04/2015	30.85	26.39	-	-	-	-	4.46	11:33	-	-	-	-	-	-	-	-	-	-	-	-	

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	05/11/2015	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	-	-	-	-	-	-	-	-	-	-	-	-	

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	12/05/2017	30.85	DRY	-	-	-	29.03	-	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
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-11	01/24/2019	30.85	24.95	-	-	-	-	5.90	9:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	02/11/2019	30.85	25.09	-	-	-	29.81	5.76	13:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	02/21/2019	30.85	24.87	-	-	-	30.03	5.98	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/07/2019	30.85	25.08	-	-	-	-	5.77	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	03/19/2019	30.85	25.12	-	-	-	-	5.73	13:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/02/2019	30.85	25.01	-	-	-	-	5.84	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	04/22/2019	30.85	25.15	-	-	-	-	5.70	9:26	-	-	-	-	-	-	-	-	-	-	-	-	

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
MW-11	05/06/2019	30.85	25.07	-	-	-	-	5.78	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	05/20/2019	30.85	24.80	-	-	-	30.17	6.05	10:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/04/2019	30.85	25.27	-	-	-	-	5.58	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	06/18/2019	30.85	25.28	-	-	-	-	5.57	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/09/2019	30.85	24.92	-	-	-	-	5.93	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	07/23/2019	30.85	25.07	-	-	-	-	5.78	10:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/09/2019	30.85	25.19	-	-	-	-	5.66	12:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	08/19/2019	30.85	25.20	-	-	-	29.83	5.65	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/03/2019	30.85	25.29	-	-	-	-	5.56	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-11	09/17/2019	30.85	25.86	-	-	-	-	4.99	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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
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

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	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
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	01/10/2019	32.92	28.12	-	-	-	-	4.80	9:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	01/24/2019	32.92	27.42	-	-	-	-	5.50	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	02/11/2019	32.92	27.93	-	-	-	-	4.99	12:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	02/13/2019	32.92	27.67	-	-	-	-	5.25	9:22	-	-	-	-	-	-	-	-	-	-	-	2,800	
MW/RW-14	02/21/2019	32.92	26.98	-	-	-	-	5.94	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	03/07/2019	32.92	29.02	-	-	-	29.40	3.90	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	03/19/2019	32.92	28.90	-	-	-	-	4.02	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/02/2019	32.92	29.05	-	-	-	-	3.87	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	04/22/2019	32.92	28.94	-	-	-	-	3.98	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/06/2019	32.92	27.07	-	-	-	-	5.85	9:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/20/2019	32.92	26.85	-	-	-	38.02	6.07	10:26	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	05/22/2019	32.92	29.00	-	-	-	-	3.92	13:10	-	-	-	-	-	-	-	-	-	-	-	1,300	
MW/RW-14	06/04/2019	32.92	28.99	-	-	-	-	3.93	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	06/18/2019	32.92	28.86	-	-	-	-	4.06	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/09/2019	32.92	28.67	-	-	-	-	4.25	9:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	07/23/2019	32.92	28.93	-	-	-	-	3.99	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/09/2019	32.92	27.48	-	-	-	-	5.44	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/19/2019	32.92	27.38	-	-	-	39.79	5.54	11:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	08/20/2019	31.33	26.45	-	-	-	37.34	4.88	10:14	-	-	-	-	-	-	-	-	-	-	-	830	
MW/RW-14	09/03/2019	32.92	29.20	-	-	-	-	3.72	9:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-14	09/17/2019	32.92	29.25	-	-	-	-	3.67	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-15S	02/11/2019	31.03	21.59	-	-	-	25.94	9.44	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	05/20/2019	31.03	22.00	-	-	-	26.52	9.03	10:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW-15S	08/19/2019	31.03	21.72	-	-	-	26.81	9.31	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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-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	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	02/11/2019	31.03	21.73	-	-	-	24.82	9.30	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	05/20/2019	31.03	21.86	-	-	-	24.87	9.17	10:19	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16S	08/19/2019	31.03	21.89	-	-	-	24.81	9.14	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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-16	02/11/2019	30.97	22.24	-	-	-	35.60	8.73	12:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	02/13/2019	30.97	22.07	-	-	-	34.78	8.90	13:29	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-16	05/20/2019	30.97	22.29	-	-	-	35.85	8.68	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	05/21/2019	30.97	22.37	-	-	-	35.54	8.60	9:32	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-16	08/19/2019	30.97	22.26	-	-	-	36.08	8.71	11:39	-	-	-	-	-	-	-	-	-	-	-	-	
MW-16	08/20/2019	30.97	22.31	-	-	-	34.88	8.66	9:02	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-25S	08/08/2014	31.07	23.64	-	-	-	25.80	7.43	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

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	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
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

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	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	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-25S	01/24/2019	32.44	26.60	-	-	-	-	5.84	14:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/11/2019	32.44	22.46	-	-	-	-	9.98	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	02/12/2019	32.44	22.41	-	-	-	-	10.03	13:00	-	-	-	-	-	-	-	-	-	-	-	5,200	
MW-25S	02/21/2019	32.44	OBST	-	-	-	-	-	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	03/07/2019	32.44	22.44	-	-	-	-	10.00	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	03/19/2019	32.44	22.69	-	-	-	-	9.75	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/02/2019	32.44	22.40	-	-	-	-	10.04	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	04/22/2019	32.44	22.65	-	-	-	-	9.79	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/06/2019	32.44	22.86	-	-	-	-	9.58	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/20/2019	32.44	22.73	-	-	-	26.82	9.71	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	05/22/2019	32.44	22.68	-	-	-	-	9.76	12:14	-	-	-	-	-	-	-	-	-	-	-	6,300	
MW-25S	06/04/2019	32.44	23.15	-	-	-	-	9.29	10:08	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	06/18/2019	32.44	23.19	-	-	-	-	9.25	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/09/2019	32.44	22.81	-	-	-	-	9.63	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	07/23/2019	32.44	22.33	-	-	-	-	10.11	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/09/2019	32.44	22.48	-	-	-	-	9.96	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/19/2019	32.44	22.76	-	-	-	26.68	9.68	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	08/20/2019	31.22	21.79	-	-	-	25.87	9.43	11:15	-	-	-	-	-	-	-	-	-	-	-	8,400	
MW-25S	09/03/2019	32.44	23.24	-	-	-	-	9.20	9:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-25S	09/17/2019	32.44	23.37	-	-	-	-	9.07	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/08/2014	31.13	27.97	27.60	0.37	0.08	36.69	3.48	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/11/2014	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

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	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
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

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	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
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

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	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/RW-25	01/24/2019	32.75	27.05	-	-	-	-	5.70	14:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	02/11/2019	32.75	26.13	-	-	-	35.40	6.62	13:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	02/12/2019	32.75	26.13	-	-	-	-	6.62	11:35	-	-	-	-	-	-	-	-	-	-	-	4,200	
MW/RW-25	02/15/2019	32.75	25.96	-	-	-	-	6.79	9:28	-	-	-	-	-	-	-	-	-	-	-	5,900	Grab
MW/RW-25	02/21/2019	32.75	25.87	-	-	-	-	6.88	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	03/07/2019	32.75	26.13	-	-	-	-	6.62	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	03/19/2019	32.75	26.18	-	-	-	-	6.57	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	04/02/2019	32.75	26.25	-	-	-	-	6.50	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	04/22/2019	34.00	27.40	-	-	-	-	6.60	9:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	05/06/2019	32.75	25.97	-	-	-	-	6.78	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	05/20/2019	32.75	25.84	-	-	-	36.34	6.91	10:37	-	-	-	-	-	-	-	-	-	-	-	3,500	
MW/RW-25	05/20/2019	32.75	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210,000	Grab

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	06/04/2019	34.00	27.58	-	-	-	-	6.42	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	06/18/2019	34.00	27.47	-	-	-	-	6.53	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/09/2019	34.00	27.28	-	-	-	-	6.72	9:14	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	07/23/2019	34.00	27.42	-	-	-	-	6.58	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/09/2019	34.00	26.35	-	-	-	-	7.65	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/19/2019	34.00	26.41	-	-	-	36.56	7.59	11:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	08/20/2019	32.75	25.65	-	-	-	35.65	7.10	12:25	-	-	-	-	-	-	-	-	-	-	-	3,100	
MW/RW-25	08/21/2019	34.00	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31,000	Grab
MW/RW-25	09/03/2019	34.00	27.69	-	-	-	-	6.31	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-25	09/17/2019	34.00	27.77	-	-	-	-	6.23	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/18/2015	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	05/21/2018	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-27	02/11/2019	31.44	26.50	-	-	-	33.79	4.94	13:38	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	02/14/2019	31.44	26.51	-	-	-	34.31	4.93	9:20	-	-	-	-	-	-	-	-	-	-	-	420	
MW-27	05/20/2019	31.44	25.99	-	-	-	34.78	5.45	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	05/21/2019	31.44	26.36	-	-	-	33.74	5.08	12:20	-	-	-	-	-	-	-	-	-	-	-	630	
MW-27	08/19/2019	31.44	26.50	-	-	-	33.78	4.94	11:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW-27	08/20/2019	31.44	26.64	-	-	-	-	4.80	10:50	-	-	-	-	-	-	-	-	-	-	-	670	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	05/21/2015	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
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

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	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	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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/RW-31	01/24/2019	31.42	23.50	-	-	-	-	7.92	8:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/11/2019	31.42	24.88	-	-	-	34.28	6.54	13:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	02/14/2019	31.42	24.99	-	-	-	33.69	6.43	11:55	-	-	-	-	-	-	-	-	-	-	-	120	
MW/RW-31	02/21/2019	31.42	23.98	-	-	-	34.25	7.44	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	03/07/2019	31.42	24.77	-	-	-	-	6.65	11:22	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	03/19/2019	31.42	24.83	-	-	-	-	6.59	13:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	04/02/2019	31.42	24.85	-	-	-	-	6.57	12:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	04/22/2019	31.42	24.67	-	-	-	-	6.75	11:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/06/2019	31.42	24.59	-	-	-	-	6.83	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/20/2019	31.42	24.57	-	-	-	34.54	6.85	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	05/21/2019	31.42	24.78	-	-	-	-	6.64	9:25	-	-	-	-	-	-	-	-	-	-	-	320	
MW/RW-31	06/04/2019	31.42	25.17	-	-	-	-	6.25	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	06/18/2019	31.42	24.67	-	-	-	-	6.75	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/09/2019	31.42	25.07	-	-	-	-	6.35	9:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	07/23/2019	31.42	25.13	-	-	-	-	6.29	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/09/2019	31.42	25.48	-	-	-	-	5.94	12:17	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/19/2019	31.42	25.59	-	-	-	33.68	5.83	11:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-31	08/20/2019	31.42	25.63	-	-	-	-	5.79	8:57	-	-	-	-	-	-	-	-	-	-	-	240	
MW/RW-31	09/03/2019	31.42	25.92	-	-	-	-	5.50	9:57	-	-	-	-	-	-	-	-	-	-	-	-	

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	09/17/2019	31.42	26.25	-	-	-	-	5.17	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-33	02/11/2019	30.88	25.73	-	-	-	35.08	5.15	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	05/20/2019	30.88	25.14	-	-	-	35.44	5.74	10:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-33	08/19/2019	30.88	25.64	-	-	-	34.40	5.24	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	12/02/2015	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	
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	

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	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-51S	01/24/2019	32.98	22.30	-	-	-	-	10.68	13:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/11/2019	32.98	22.60	-	-	-	OBST	10.38	11:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	02/14/2019	31.00	21.28	-	-	-	-	9.72	14:00	-	-	-	-	-	-	-	-	-	-	-	2,100	
MW-51S	02/21/2019	32.98	22.73	-	-	-	-	10.25	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/07/2019	32.98	22.58	-	-	-	-	10.40	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	03/19/2019	32.98	23.10	-	-	-	-	9.88	9:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/02/2019	32.98	22.67	-	-	-	-	10.31	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	04/22/2019	32.98	22.85	-	-	-	-	10.13	9:46	-	-	-	-	-	-	-	-	-	-	-	-	

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	05/06/2019	32.98	23.08	-	-	-	-	9.90	9:04	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/20/2019	32.98	22.87	-	-	-	27.17	10.11	11:00	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	05/22/2019	32.98	22.91	-	-	-	-	10.07	9:23	-	-	-	-	-	-	-	-	-	-	-	5,200	
MW-51S	06/04/2019	32.98	22.99	-	-	-	-	9.99	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	06/18/2019	32.98	22.97	-	-	-	-	10.01	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/09/2019	32.98	22.58	-	-	-	-	10.40	8:57	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	07/23/2019	32.98	22.42	-	-	-	-	10.56	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/09/2019	32.98	22.57	-	-	-	-	10.41	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/19/2019	32.98	22.81	-	-	-	24.83	10.17	11:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	08/21/2019	31.00	21.56	-	-	-	25.76	9.44	10:05	-	-	-	-	-	-	-	-	-	-	-	7,300	
MW-51S	09/03/2019	32.98	23.40	-	-	-	-	9.58	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-51S	09/17/2019	32.98	23.53	-	-	-	-	9.45	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/11/2015	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
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

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	08/28/2017	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
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/RW-51	01/24/2019	32.87	29.02	-	-	-	-	3.85	13:45	-	-	-	-	-	-	-	-	-	-	-	-	

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/RW-51	02/11/2019	32.87	27.17	-	-	-	37.12	5.70	13:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	02/14/2019	31.62	26.05	-	-	-	-	5.57	12:52	-	-	-	-	-	-	-	-	-	-	-	1,600	
MW/RW-51	02/15/2019	32.87	27.07	-	-	-	-	5.80	9:22	-	-	-	-	-	-	-	-	-	-	-	21,000	Grab
MW/RW-51	02/21/2019	32.87	26.79	-	-	-	-	6.08	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	03/07/2019	32.87	28.08	-	-	-	38.05	4.79	9:07	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	03/19/2019	32.87	28.03	-	-	-	-	4.84	9:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	04/02/2019	32.87	28.12	-	-	-	-	4.75	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	04/22/2019	32.87	27.83	-	-	-	-	5.04	9:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/06/2019	32.87	26.74	-	-	-	-	6.13	9:29	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/20/2019	32.87	26.94	-	-	-	38.05	5.93	11:02	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	05/22/2019	32.87	27.50	-	-	-	-	5.37	10:03	-	-	-	-	-	-	-	-	-	-	-	2,600	
MW/RW-51	05/23/2019	31.62	26.04	-	-	-	35.90	5.58	9:04	-	-	-	-	-	-	-	-	-	-	-	680	Grab
MW/RW-51	06/04/2019	32.87	28.30	-	-	-	-	4.57	9:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	06/18/2019	32.87	28.16	-	-	-	-	4.71	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/09/2019	32.87	27.92	-	-	-	-	4.95	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	07/23/2019	32.87	28.12	-	-	-	-	4.75	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/09/2019	31.62	26.13	-	-	-	-	5.49	10:24	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/19/2019	31.62	26.07	-	-	-	35.95	5.55	12:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	08/21/2019	31.62	26.37	-	-	-	36.66	5.25	9:03	-	-	-	-	-	-	-	-	-	-	-	730	
MW/RW-51	08/21/2019	31.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1500	Grab
MW/RW-51	09/03/2019	32.87	28.38	-	-	-	-	4.49	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-51	09/17/2019	32.87	28.35	-	-	-	-	4.52	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/05/2015	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-52	02/11/2019	30.17	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Manhole flooded
MW-52	05/20/2019	30.17	24.62	-	-	-	35.30	5.55	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
MW-52	08/19/2019	30.17	25.09	-	-	-	35.58	5.08	11:37	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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-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-70	02/11/2019	30.86	25.17	-	-	-	35.48	5.69	13:09	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	05/20/2019	30.86	24.58	-	-	-	35.53	6.28	11:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW-70	08/19/2019	30.86	25.15	-	-	-	35.93	5.71	12:08	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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	

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	05/23/2016	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	
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-72S	02/11/2019	30.63	21.18	-	-	-	23.98	9.45	12:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	02/14/2019	30.63	21.20	-	-	-	-	9.43	10:40	-	-	-	-	-	-	-	-	-	-	-	1,600	
MW/RW-72S	05/20/2019	30.63	21.05	-	-	-	24.58	9.58	10:41	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	05/22/2019	30.63	21.18	-	-	-	23.85	9.45	10:30	-	-	-	-	-	-	-	-	-	-	-	1,900	

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	08/19/2019	30.63	21.42	-	-	-	23.92	9.21	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72S	08/22/2019	30.63	21.48	-	-	-	24.32	9.15	10:46	-	-	-	-	-	-	-	-	-	-	-	1,700	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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/RW-72	02/11/2019	31.03	26.19	-	-	-	33.37	4.84	13:49	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	02/14/2019	31.03	25.98	-	-	-	-	5.05	9:25	-	-	-	-	-	-	-	-	-	-	-	1,200	
MW/RW-72	05/20/2019	31.03	25.55	-	-	-	34.13	5.48	10:44	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	05/21/2019	31.03	25.93	-	-	-	33.11	5.10	13:20	-	-	-	-	-	-	-	-	-	-	-	2,100	
MW/RW-72	08/19/2019	31.03	26.11	-	-	-	33.10	4.92	11:33	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-72	08/22/2019	31.03	26.35	-	-	-	34.00	4.68	9:50	-	-	-	-	-	-	-	-	-	-	-	2,300	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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-100S	02/11/2019	31.03	20.41	-	-	-	24.27	10.62	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	05/20/2019	31.03	20.74	-	-	-	24.34	10.29	10:01	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100S	08/19/2019	31.03	24.57	-	-	-	26.94	6.46	10:14	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-100	02/11/2019	30.78	25.92	-	-	-	36.30	4.86	13:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	05/20/2019	30.78	25.35	-	-	-	37.64	5.43	11:18	-	-	-	-	-	-	-	-	-	-	-	-	
MW-100	08/19/2019	30.78	25.78	-	-	-	36.89	5.00	12:16	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-102	02/11/2019	29.72	23.59	-	-	-	36.72	6.13	13:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	05/20/2019	29.72	22.54	-	-	-	37.14	7.18	11:28	-	-	-	-	-	-	-	-	-	-	-	-	
MW-102	08/19/2019	29.72	23.52	-	-	-	37.02	6.20	12:11	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	11/12/2018	11.07	3.41	-	-	-	14.88	7.66	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	02/11/2019	11.07	4.06	-	-	-	14.84	7.01	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	05/20/2019	11.07	3.67	-	-	-	14.42	7.40	9:54	-	-	-	-	-	-	-	-	-	-	-	-	
MW-103	08/19/2019	11.07	4.42	-	-	-	15.07	6.65	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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-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-104	02/11/2019	12.00	3.74	-	-	-	11.94	8.26	10:21	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	05/20/2019	12.00	3.48	-	-	-	11.73	8.52	9:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-104	08/19/2019	12.00	4.13	-	-	-	11.76	7.87	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-105	02/11/2019	10.94	NR	-	-	-	-	-	10:26	-	-	-	-	-	-	-	-	-	-	-	-	Manhole flooded
MW-105	05/20/2019	10.94	0.91	-	-	-	8.84	10.03	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
MW-105	08/19/2019	10.94	1.73	-	-	-	8.65	9.21	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	09/22/2014	11.12	7.87	-	-	-	-	3.25	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	10/01/2014	11.12	7.93	-	-	-	9.88	3.19	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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	11.12	4.72	-	-	-	8.80	6.40	11:45	<0.2	<0.2	<0.2	<0.5	-	-	-	-	<4	-	-	<53	
MW-106	02/11/2019	11.12	6.44	-	-	-	8.92	4.68	12:32	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	02/14/2019	11.12	5.51	-	-	-	8.89	5.61	12:55	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-106	05/20/2019	11.12	5.62	-	-	-	8.89	5.50	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	05/22/2019	11.12	6.23	-	-	-	8.92	4.89	9:30	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-106	08/19/2019	11.12	7.18	-	-	-	9.80	3.94	11:52	-	-	-	-	-	-	-	-	-	-	-	-	
MW-106	08/22/2019	11.12	7.30	-	-	-	8.90	3.82	11:45	-	-	-	-	-	-	-	-	-	-	-	750	
MW-107	08/08/2014	15.74	10.62	-	-	-	11.57	5.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/11/2014	15.74	9.02	-	-	-	-	6.72	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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

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	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-107	02/11/2019	15.74	9.80	-	-	-	11.07	5.94	10:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	05/20/2019	15.74	8.34	-	-	-	11.05	7.40	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW-107	08/19/2019	15.74	10.58	-	-	-	11.04	5.16	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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

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	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-108	02/11/2019	15.61	DRY	-	-	-	9.24	-	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
MW-108	02/15/2019	15.61	8.50	-	-	-	-	7.11	10:35	-	-	-	-	-	-	-	-	-	-	-	<53	
MW-108	05/20/2019	15.61	9.17	-	-	-	9..23	6.44	10:43	-	-	-	-	-	-	-	-	-	-	-	-	
MW-108	08/19/2019	15.61	DRY	-	-	-	9.27	-	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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-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	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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	

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	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	<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-121	02/11/2019	31.43	25.99	-	-	-	37.55	5.44	13:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	02/13/2019	31.43	25.67	-	-	-	-	5.76	9:15	-	-	-	-	-	-	-	-	-	-	-	12,000	
MW-121	02/15/2019	31.43	25.67	-	-	-	36.37	5.76	9:00	-	-	-	-	-	-	-	-	-	-	-	3,700	Grab
MW-121	05/20/2019	31.43	25.41	-	-	-	37.39	6.02	11:05	-	-	-	-	-	-	-	-	-	-	-	13,000	
MW-121	05/20/2019	31.43	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23,000	Grab
MW-121	08/19/2019	31.43	25.87	-	-	-	37.73	5.56	12:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW-121	08/19/2019	31.43	25.85	-	-	-	-	5.58	12:47	-	-	-	-	-	-	-	-	-	-	-	9,700	
MW-121	08/21/2019	31.43	26.11	-	-	-	36.35	5.32	9:20	-	-	-	-	-	-	-	-	-	-	-	3,100	Grab
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-122	02/11/2019	31.64	26.13	-	-	-	29.82	5.51	13:05	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	02/12/2019	31.64	25.92	-	-	-	-	5.72	12:45	-	-	-	-	-	-	-	-	-	-	-	520	
MW-122	05/20/2019	31.64	25.54	-	-	-	35.69	6.10	11:11	-	-	-	-	-	-	-	-	-	-	-	-	
MW-122	05/21/2019	31.64	25.87	-	-	-	35.79	5.77	11:47	-	-	-	-	-	-	-	-	-	-	-	790	
MW-122	08/19/2019	31.64	24.98	-	-	-	36.54	6.66	12:06	-	-	-	-	-	-	-	-	-	-	-	780	
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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	09/22/2016	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	01/24/2019	33.00	26.45	-	-	-	-	6.55	13:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/11/2019	33.00	23.15	-	-	-	26.77	9.85	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	02/12/2019	31.22	21.45	-	-	-	-	9.77	13:50	-	-	-	-	-	-	-	-	-	-	-	2,700	
MW/RW-123S	02/21/2019	33.00	23.11	-	-	-	-	9.89	9:34	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	03/07/2019	33.00	23.11	-	-	-	-	9.89	9:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	03/19/2019	33.00	24.62	-	-	-	-	8.38	9:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	04/02/2019	33.00	23.13	-	-	-	-	9.87	9:45	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	04/22/2019	33.00	23.27	-	-	-	-	9.73	9:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/06/2019	33.00	23.57	-	-	-	-	9.43	9:03	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/20/2019	33.00	23.25	-	-	-	26.96	9.75	10:59	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	05/21/2019	33.00	23.32	-	-	-	-	9.68	13:15	-	-	-	-	-	-	-	-	-	-	-	3,600	
MW/RW-123S	06/04/2019	33.00	23.80	-	-	-	-	9.20	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	06/18/2019	33.00	23.52	-	-	-	-	9.48	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/09/2019	33.00	23.23	-	-	-	-	9.77	8:53	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	07/23/2019	33.00	22.92	-	-	-	-	10.08	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/09/2019	33.00	23.22	-	-	-	-	9.78	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/RW-123S	08/19/2019	33.00	23.56	-	-	-	26.77	9.44	11:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	08/20/2019	31.22	21.93	-	-	-	24.98	9.29	11:55	-	-	-	-	-	-	-	-	-	-	-	3,900	
MW/RW-123S	09/03/2019	33.00	23.87	-	-	-	-	9.13	8:51	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-123S	09/17/2019	33.00	24.38	-	-	-	-	8.62	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	10/10/2014	31.19	26.93	-	-	-	-	4.26	-	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	10/13/2014	31.19	27.09	-	-	-	-	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-1	02/11/2019	31.19	26.36	-	-	-	41.95	4.83	12:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	02/12/2019	31.19	26.13	-	-	-	42.06	5.06	14:08	-	-	-	-	-	-	-	-	-	-	-	2,500	
RW-1	05/20/2019	31.19	25.38	-	-	-	42.65	5.81	11:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	05/22/2019	31.19	26.48	-	-	-	41.74	4.71	11:29	-	-	-	-	-	-	-	-	-	-	-	2,300	
RW-1	08/19/2019	31.19	26.27	-	-	-	42.40	4.92	12:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-1	08/19/2019	31.19	26.21	-	-	-	-	4.98	13:46	-	-	-	-	-	-	-	-	-	-	-	2,400	
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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	05/24/2016	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	05/03/2018	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	01/24/2019	33.48	27.55	-	-	-	-	5.93	13:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/11/2019	33.48	23.13	-	-	-	27.54	10.35	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	02/13/2019	31.98	21.87	-	-	-	-	10.11	11:40	-	-	-	-	-	-	-	-	-	-	-	5,700	
RW-05S	02/15/2019	33.48	23.12	-	-	-	-	10.36	9:19	-	-	-	-	-	-	-	-	-	-	-	6,100	Grab
RW-05S	02/21/2019	33.48	23.15	-	-	-	-	10.33	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/07/2019	33.48	23.09	-	-	-	-	10.39	9:16	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	03/19/2019	33.48	23.33	-	-	-	-	10.15	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/02/2019	33.48	23.08	-	-	-	-	10.40	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	04/22/2019	33.48	23.35	-	-	-	-	10.13	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/06/2019	33.48	23.49	-	-	-	-	9.99	9:01	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	05/20/2019	33.48	23.15	-	-	-	27.33	10.33	11:08	-	-	-	-	-	-	-	-	-	-	-	7,000	
RW-05S	05/20/2019	33.48	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15,000	Grab
RW-05S	06/04/2019	33.48	23.56	-	-	-	-	9.92	10:00	-	-	-	-	-	-	-	-	-	-	-	-	

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-05S	06/18/2019	33.48	23.53	-	-	-	-	9.95	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/09/2019	33.48	23.18	-	-	-	-	10.30	9:39	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	07/23/2019	33.48	22.92	-	-	-	-	10.56	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/09/2019	33.48	22.98	-	-	-	-	10.50	10:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/19/2019	33.48	23.55	-	-	-	27.72	9.93	11:29	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	08/21/2019	31.98	22.12	-	-	-	-	9.86	10:01	-	-	-	-	-	-	-	-	-	-	-	5,900	
RW-05S	08/22/2019	33.48	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,700	Grab
RW-05S	09/03/2019	33.48	23.62	-	-	-	-	9.86	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-05S	09/17/2019	33.48	23.90	-	-	-	-	9.58	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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
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

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	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
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	01/10/2019	33.47	23.50	-	-	-	-	9.97	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	01/24/2019	33.47	26.50	-	-	-	-	6.97	13:30	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	02/11/2019	33.47	23.90	-	-	-	32.90	9.57	13:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	02/13/2019	32.20	22.46	-	-	-	-	9.74	10:25	-	-	-	-	-	-	-	-	-	-	-	2,700	
MW/RW-05	02/21/2019	33.47	23.84	-	-	-	-	9.63	9:36	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	03/07/2019	33.47	24.21	-	-	-	33.30	9.26	9:13	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	03/19/2019	33.47	24.22	-	-	-	-	9.25	9:12	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	04/02/2019	33.47	24.05	-	-	-	-	9.42	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	04/22/2019	33.47	24.28	-	-	-	-	9.19	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	05/06/2019	33.47	24.54	-	-	-	-	8.93	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	05/20/2019	33.47	24.19	-	-	-	33.07	9.28	11:09	-	-	-	-	-	-	-	-	-	-	-	3,900	
MW/RW-05	06/04/2019	33.47	24.70	-	-	-	-	8.77	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	06/18/2019	33.47	24.66	-	-	-	-	8.81	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	07/09/2019	33.47	24.16	-	-	-	-	9.31	9:42	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	07/23/2019	33.47	23.78	-	-	-	-	9.69	10:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/09/2019	33.47	23.62	-	-	-	-	9.85	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/19/2019	32.20	22.85	-	-	-	32.68	9.35	12:25	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	08/21/2019	32.20	22.80	-	-	-	31.27	9.40	10:05	-	-	-	-	-	-	-	-	-	-	-	3,800	
MW/RW-05	09/03/2019	33.47	24.33	-	-	-	-	9.14	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
MW/RW-05	09/17/2019	33.47	24.90	-	-	-	-	8.57	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	11/10/2015	30.97	NR	26.28	-	-	26.38	-	13:36	-	-	-	-	-	-	-	-	-	-	-	-	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
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	02/20/2018	31.92	23.39	-	-	-	25.41	8.53	12:14	-	-	-	-	-	-	-	-	-	-	-	-	
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-25S	01/24/2019	32.44	DRY	-	-	-	25.65	-	13:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/11/2019	32.44	22.68	-	-	-	25.64	9.76	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	02/12/2019	32.44	22.71	-	-	-	-	9.73	9:42	-	-	-	-	-	-	-	-	-	-	-	12,000	
RW-25S	02/15/2019	32.44	22.88	-	-	-	-	9.56	9:25	-	-	-	-	-	-	-	-	-	-	-	25,000	Grab
RW-25S	02/21/2019	32.44	22.68	-	-	-	-	9.76	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	03/07/2019	32.44	22.87	-	-	-	-	9.57	9:27	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	03/19/2019	32.44	24.66	-	-	-	-	7.78	9:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	04/02/2019	32.44	22.92	-	-	-	-	9.52	9:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	04/22/2019	32.44	22.86	-	-	-	-	9.58	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
RW-25S	05/06/2019	32.44	24.21	-	-	-	-	8.23	9:26	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	05/20/2019	32.44	24.38	-	-	-	25.77	8.06	10:39	-	-	-	-	-	-	-	-	-	-	-	21,000	
RW-25S	06/04/2019	32.44	24.67	-	-	-	-	7.77	10:11	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	06/18/2019	32.44	24.50	-	-	-	-	7.94	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/09/2019	32.44	22.55	-	-	-	-	9.89	9:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	07/23/2019	32.44	22.57	-	-	-	-	9.87	9:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/09/2019	32.44	22.48	-	-	-	-	9.96	10:42	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/19/2019	32.44	24.42	-	-	-	26.32	8.02	11:57	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	08/20/2019	31.12	22.77	-	-	-	24.25	8.35	13:31	-	-	-	-	-	-	-	-	-	-	-	14,000	
RW-25S	09/03/2019	32.44	24.85	-	-	-	-	7.59	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-25S	09/17/2019	32.44	25.12	-	-	-	-	7.32	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-28S	01/24/2019	31.55	22.93	-	-	-	-	8.62	8:50	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/11/2019	31.55	23.75	-	-	-	26.27	7.80	12:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	02/14/2019	31.55	23.51	-	-	-	26.28	8.04	10:48	-	-	-	-	-	-	-	-	-	-	-	180	
RW-28S	02/21/2019	31.55	23.02	-	-	-	26.61	8.53	10:09	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	03/07/2019	31.55	22.67	-	-	-	-	8.88	11:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	03/19/2019	31.55	23.65	-	-	-	-	7.90	13:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	04/02/2019	31.55	23.51	-	-	-	-	8.04	12:08	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	04/22/2019	31.55	23.35	-	-	-	-	8.20	11:05	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/06/2019	31.55	23.60	-	-	-	-	7.95	9:44	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/20/2019	31.55	22.79	-	-	-	26.34	8.76	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	05/21/2019	31.55	23.17	-	-	-	26.28	8.38	11:10	-	-	-	-	-	-	-	-	-	-	-	200	
RW-28S	06/04/2019	31.55	23.85	-	-	-	-	7.70	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	06/18/2019	31.55	23.82	-	-	-	-	7.73	10:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/09/2019	31.55	23.86	-	-	-	-	7.69	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	07/23/2019	31.55	23.70	-	-	-	-	7.85	10:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/09/2019	31.55	24.15	-	-	-	-	7.40	12:13	-	-	-	-	-	-	-	-	-	-	-	-	

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
RW-28S	08/19/2019	31.55	24.48	-	-	-	26.30	7.07	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	08/20/2019	31.55	24.50	-	-	-	26.30	7.05	10:08	-	-	-	-	-	-	-	-	-	-	-	550	
RW-28S	09/03/2019	31.55	24.88	-	-	-	-	6.67	9:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-28S	09/17/2019	31.55	25.28	-	-	-	-	6.27	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
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	
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

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	08/30/2016	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-30S	01/24/2019	31.32	23.04	-	-	-	-	8.28	8:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	02/11/2019	31.32	24.66	-	-	-	26.95	6.66	12:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	02/13/2019	31.32	24.50	-	-	-	-	6.82	14:15	-	-	-	-	-	-	-	-	-	-	-	95 J	
RW-30S	02/21/2019	31.32	22.90	-	-	-	27.16	8.42	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	03/07/2019	31.32	24.42	-	-	-	-	6.90	11:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	03/19/2019	31.32	24.70	-	-	-	-	6.62	13:24	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	04/02/2019	31.32	24.78	-	-	-	-	6.54	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	04/22/2019	31.32	24.65	-	-	-	-	6.67	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/06/2019	31.32	24.53	-	-	-	-	6.79	9:43	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/20/2019	31.32	24.52	-	-	-	27.25	6.80	10:52	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	05/21/2019	31.32	24.86	-	-	-	26.95	6.46	10:15	-	-	-	-	-	-	-	-	-	-	-	150	
RW-30S	06/04/2019	31.32	24.85	-	-	-	-	6.47	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	06/18/2019	31.32	24.65	-	-	-	-	6.67	10:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/09/2019	31.32	24.77	-	-	-	-	6.55	9:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	07/23/2019	31.32	24.95	-	-	-	-	6.37	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/09/2019	31.32	25.40	-	-	-	-	5.92	12:19	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	08/19/2019	31.32	25.43	-	-	-	26.85	5.89	11:46	-	-	-	-	-	-	-	-	-	-	-	-	

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	08/20/2019	31.32	25.62	-	-	-	26.85	5.70	9:40	-	-	-	-	-	-	-	-	-	-	-	150	
RW-30S	09/03/2019	31.32	25.77	-	-	-	-	5.55	8:54	-	-	-	-	-	-	-	-	-	-	-	-	
RW-30S	09/17/2019	31.32	26.12	-	-	-	-	5.20	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-116S	01/24/2019	33.45	26.68	-	-	-	-	6.77	13:25	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/11/2019	33.45	23.45	-	-	-	27.60	10.00	12:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	02/13/2019	31.61	21.85	-	-	-	-	9.76	12:50	-	-	-	-	-	-	-	-	-	-	-	990	
RW-116S	02/21/2019	33.45	23.34	-	-	-	-	10.11	9:58	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	03/07/2019	33.45	23.90	-	-	-	28.14	9.55	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	03/19/2019	33.45	24.20	-	-	-	-	9.25	9:18	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	04/02/2019	33.45	24.00	-	-	-	-	9.45	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	04/22/2019	33.45	24.27	-	-	-	-	9.18	9:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/06/2019	33.45	23.74	-	-	-	-	9.71	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/20/2019	33.45	23.52	-	-	-	-	9.93	11:40	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	05/23/2019	33.45	23.51	-	-	-	-	9.94	9:03	-	-	-	-	-	-	-	-	-	-	-	6,300	
RW-116S	06/04/2019	33.45	24.37	-	-	-	-	9.08	10:04	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	06/18/2019	33.45	24.44	-	-	-	-	9.01	10:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	07/09/2019	33.45	24.08	-	-	-	-	9.37	9:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-166S	07/23/2019	33.45	23.90	-	-	-	-	9.55	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/09/2019	33.45	22.72	-	-	-	-	10.73	10:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/19/2019	33.45	23.55	-	-	-	27.54	9.90	11:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	08/21/2019	31.61	22.06	-	-	-	26.79	9.55	12:55	-	-	-	-	-	-	-	-	-	-	-	4,100	
RW-116S	09/03/2019	33.45	24.45	-	-	-	-	9.00	9:28	-	-	-	-	-	-	-	-	-	-	-	-	
RW-116S	09/17/2019	33.45	24.77	-	-	-	-	8.68	10:07	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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-117S	01/24/2019	33.31	25.30	-	-	-	-	8.01	14:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	02/11/2019	33.31	23.12	-	-	-	25.37	10.19	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-117S	02/13/2019	33.31	23.11	-	-	-	-	10.20	12:04	-	-	-	-	-	-	-	-	-	-	-	2,400	
RW-117S	02/21/2019	33.31	23.21	-	-	-	-	10.10	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	03/07/2019	33.31	23.23	-	-	-	-	10.08	9:36	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	03/19/2019	33.31	23.47	-	-	-	-	9.84	9:37	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	04/02/2019	33.31	23.19	-	-	-	-	10.12	10:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	04/22/2019	33.31	23.38	-	-	-	-	9.93	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/06/2019	33.31	23.63	-	-	-	-	9.68	9:31	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/20/2019	33.31	23.35	-	-	-	-	9.96	11:35	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	05/22/2019	33.31	23.35	-	-	-	-	9.96	12:10	-	-	-	-	-	-	-	-	-	-	-	3,400	
RW-117S	06/04/2019	33.31	23.64	-	-	-	-	9.67	10:22	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	06/18/2019	33.31	23.78	-	-	-	-	9.53	9:55	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/09/2019	33.31	23.20	-	-	-	-	10.11	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	07/23/2019	33.31	22.95	-	-	-	-	10.36	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/09/2019	33.31	DRY	-	-	-	-	-	10:33	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/19/2019	33.31	21.35	-	-	-	25.35	11.96	11:47	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	08/21/2019	32.31	22.30	-	-	-	24.20	10.01	13:25	-	-	-	-	-	-	-	-	-	-	-	4,800	
RW-117S	09/03/2019	33.31	23.65	-	-	-	-	9.66	9:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-117S	09/17/2019	33.31	23.97	-	-	-	-	9.34	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-118S	02/11/2019	30.81	20.68	-	-	-	24.80	10.13	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	02/13/2019	30.81	20.67	-	-	-	24.64	10.14	10:39	-	-	-	-	-	-	-	-	-	-	-	3,100	
RW-118S	05/20/2019	30.81	NR	-	-	-	24.83	-	10:09	-	-	-	-	-	-	-	-	-	-	-	-	

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
RW-118S	05/22/2019	30.81	20.90	-	-	-	24.25	9.91	11:20	-	-	-	-	-		-	-	-	-	-	5,100	
RW-118S	08/19/2019	30.81	20.92	-	-	-	25.03	9.89	9:56	-	-	-	-	-	-	-	-	-	-	-	-	
RW-118S	08/20/2019	30.81	23.93	-	-	-	24.74	6.88	9:59	-	-	-	-	-	-	-	-	-	-	-	5,400	
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	
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

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	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	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	01/24/2019	30.53	21.28	-	-	-	-	9.25	9:07	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	02/11/2019	30.53	20.70	-	-	-	26.06	9.83	10:03	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	02/12/2019	30.53	20.70	-	-	-	-	9.83	11:50	-	-	-	-	-	-	-	-	-	-	-	690	
RW-119S	02/21/2019	30.53	20.79	-	-	-	26.07	9.74	9:32	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	03/07/2019	30.53	21.16	-	-	-	-	9.37	11:30	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	03/19/2019	30.53	22.30	-	-	-	-	8.23	13:10	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	04/02/2019	30.53	20.44	-	-	-	-	10.09	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	04/22/2019	30.53	20.92	-	-	-	-	9.61	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/06/2019	30.53	20.88	-	-	-	-	9.65	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/20/2019	30.53	21.03	-	-	-	26.92	9.50	10:06	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	05/21/2019	30.53	21.05	-	-	-	26.18	9.48	10:33	-	-	-	-	-	-	-	-	-	-	-	2,100	
RW-119S	06/04/2019	30.53	21.87	-	-	-	-	8.66	9:46	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	06/18/2019	30.53	21.47	-	-	-	-	9.06	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/09/2019	30.53	21.15	-	-	-	-	9.38	8:49	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	07/23/2019	30.53	20.37	-	-	-	-	10.16	9:20	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/09/2019	30.53	20.58	-	-	-	-	9.95	10:13	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/19/2019	30.53	21.50	-	-	-	27.04	9.03	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	08/19/2019	30.53	21.50	-	-	-	-	9.03	12:45	-	-	-	-	-	-	-	-	-	-	-	2,100	
RW-119S	09/03/2019	30.53	21.66	-	-	-	-	8.87	8:48	-	-	-	-	-	-	-	-	-	-	-	-	
RW-119S	09/17/2019	30.53	21.91	-	-	-	-	8.62	9:36	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-02	02/11/2019	16.11	14.34	-	-	-	21.50	1.77	13:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	02/13/2019	16.11	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	14 J	<0.3	3 J	<0.08	<11	-	<53	
TW-02	05/20/2019	16.11	13.47	-	-	-	-	2.64	11:13	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	05/21/2019	16.11	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.08	<11	-	<53	
TW-02	08/19/2019	16.11	14.98	-	-	-	21.45	1.13	11:59	-	-	-	-	-	-	-	-	-	-	-	-	
TW-02	08/20/2019	16.11	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	<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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-03	02/11/2019	10.40	7.53	-	-	-	13.37	2.87	12:46	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	02/13/2019	10.40	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.08	<11	-	65 J	
TW-03	05/20/2019	10.40	6.50	-	-	-	-	3.90	11:08	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	05/21/2019	10.40	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.08	<11	-	120	
TW-03	08/19/2019	10.40	7.67	-	-	-	13.35	2.73	12:02	-	-	-	-	-	-	-	-	-	-	-	-	
TW-03	08/21/2019	10.40	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	12 J	-	130	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/17/2014	13.26	5.60	-	-	-	-	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	04/22/2014	13.26	5.56	-	-	-	-	7.70	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	04/29/2014	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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-04	02/11/2019	9.49	4.88	-	-	-	-	4.61	11:40	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	0.2 J	<11	-	280	
TW-04	05/20/2019	9.49	4.42	-	-	-	-	5.07	10:58	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	0.3	12 J	-	470	

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	08/19/2019	9.49	5.85	-	-	-	14.80	3.64	11:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-04	08/20/2019	9.49	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	0.1 J	11 J	-	410	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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-05	01/24/2019	9.64	3.30	-	-	-	-	6.34	9:15	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/11/2019	9.64	5.27	-	-	-	13.76	4.37	13:08	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	02/13/2019	9.64	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	1	36 J	-	1,200	
TW-05	02/21/2019	9.64	NR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Manhole flooded
TW-05	03/07/2019	9.64	3.43	-	-	-	-	6.21	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	03/19/2019	9.64	4.87	-	-	-	-	4.77	10:00	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/02/2019	9.64	4.83	-	-	-	-	4.81	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	04/22/2019	9.64	4.98	-	-	-	-	4.66	10:20	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/06/2019	9.64	3.96	-	-	-	-	5.68	10:37	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/20/2019	9.64	4.19	-	-	-	-	5.45	10:50	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	05/21/2019	9.64	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	1	26 J	-	2,000	
TW-05	05/23/2019	9.64	4.92	-	-	-	13.53	4.72	9:32	-	-	-	-	-	-	-	-	-	-	-	2,000	Grab
TW-05	06/04/2019	9.64	5.58	-	-	-	-	4.06	10:45	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	06/18/2019	9.64	4.95	-	-	-	-	4.69	10:40	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/09/2019	9.64	2.37	-	-	-	-	7.27	10:16	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	07/23/2019	9.64	5.40	-	-	-	-	4.24	10:48	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/09/2019	9.64	5.73	-	-	-	-	3.91	11:39	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/19/2019	9.64	6.02	-	-	-	13.39	3.62	12:13	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	08/21/2019	9.64	6.00	-	-	-	-	3.64	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	1	20 J	-	1,400	
TW-05	08/22/2019	9.64	6.47	-	-	-	13.46	3.17	11:03	-	-	-	-	-	-	-	-	-	-	-	1,100	Grab
TW-05	09/03/2019	9.64	6.53	-	-	-	-	3.11	9:50	-	-	-	-	-	-	-	-	-	-	-	-	
TW-05	09/17/2019	9.64	6.34	-	-	-	-	3.30	10:35	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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	

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	02/21/2017	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-06	02/11/2019	9.99	5.63	-	-	-	12.73	4.36	12:56	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	02/13/2019	9.99	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	0.9	32 J	-	720	
TW-06	05/20/2019	9.99	4.45	-	-	-	-	5.54	10:55	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	05/21/2019	9.99	-	-	-	-	-	-	-	<00.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	0.8	19 J	-	890	
TW-06	05/23/2019	9.99	5.20	-	-	-	12.75	4.79	9:28	-	-	-	-	-	-	-	-	-	-	-	1,100	Grab
TW-06	08/19/2019	9.99	6.08	-	-	-	12.77	3.91	12:10	-	-	-	-	-	-	-	-	-	-	-	-	
TW-06	08/21/2019	9.99	6.45	-	-	-	-	3.54	-	0.2 J	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	19 J	-	970	
TW-06	08/22/2019	9.99	6.29	-	-	-	12.76	3.70	11:00	-	-	-	-	-	-	-	-	-	-	-	1,100	Grab
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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	29	-	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	57	-	220	
TW-07	12/01/2015	9.88	5.97	-	-	-	12.99	3.91	13:24	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	
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-07	02/11/2019	9.88	5.85	-	-	-	13.62	4.03	12:51	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	0.1 J	<11	-	<53	
TW-07	05/20/2019	9.88	5.42	-	-	-	-	4.46	11:03	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.08	<11	-	83 J	
TW-07	08/19/2019	9.88	6.86	-	-	-	13.65	3.02	12:06	-	-	-	-	-	-	-	-	-	-	-	-	
TW-07	08/20/2019	9.88	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	<0.04	<11	-	84 J	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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-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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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.
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.

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	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-12S	02/11/2019	31.33	24.81	-	-	-	25.04	6.52	10:45	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	02/14/2019	31.33	24.79	-	-	-	25.03	6.54	12:48	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	05/20/2019	31.33	24.78	-	-	-	25.03	6.55	10:54	-	-	-	-	-	-	-	-	-	-	-	-	Insufficient GW Vol.
TW-12S	08/19/2019	31.33	24.76	-	-	-	24.97	6.57	9:45	-	-	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	

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	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	
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	
TW-14	02/11/2019	11.61	3.31	-	-	-	6.07	8.30	10:23	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	02/13/2019	11.61	-	-	-	-	-	-	-	0.2 J	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.09	30 J	-	2,600	
TW-14	05/20/2019	11.61	-	-	-	-	-	-	-	<0.2	<0.2	<0.2	<0.5	<0.2	<10	<0.3	<2	<0.08	28 J	-	310	
TW-14	08/19/2019	11.61	3.41	-	-	-	6.04	8.20	9:48	-	-	-	-	-	-	-	-	-	-	-	-	
TW-14	08/21/2019	11.61	-	-	-	-	-	-	-	2	<0.2	<0.2	<0.8	<0.2	<10	<0.3	<2	-	93	-	2,100	

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.

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

(Date)^{L} = Well sampled during the Potomac River's low tide.
ft = feet
gal = gallons
DRY = No water for sampling.
Vol. = 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

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	-	-	-	-
MW-01S	02/11/2019	0.3	20.4	1.1	0.0	-	-	-	-	-	-
MW-01S	02/12/2019	-	-	-	-	0.20	7.01	15.8	-55.6	1072.0	-
MW-01S	04/02/2019	-	-	-	-	-	6.68	-	-	-	-
MW-01S	05/20/2019	3.0	19.0	2.0	0.0	0.03	6.94	15.88	-112.4	780.0	-
MW-01S	06/18/2019	-	-	-	-	-	6.25	-	-	-	-
MW-01S	07/23/2019	-	-	-	-	-	6.46	-	-	-	-
MW-01S	08/19/2019	4.6	18.1	2.1	0.0	-	-	-	-	-	-
MW-01S	08/20/2019	-	-	-	-	0.16	7.65	17.12	-84.6	886.0	-
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	-	-	-	-	-	-

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	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/RW-05	02/11/2019	8.6	20.6	0.7	0.0	-	-	-	-	-	-
MW/RW-05	02/13/2019	-	-	-	-	0.08	6.72	13.72	-22.4	1,125	-
MW/RW-05	04/02/2019	-	-	-	-	-	6.45	-	-	-	-
MW/RW-05	05/20/2019	3.6	20.4	1.2	0.0	0.08	6.71	14.25	-76.8	760	-
MW/RW-05	06/18/2019	-	-	-	-	-	6.34	-	-	-	-
MW/RW-05	07/23/2019	-	-	-	-	-	6.50	-	-	-	-
MW/RW-05	08/19/2019	3.2	19.9	0.4	0.0	-	-	-	-	-	-
MW/RW-05	08/21/2019	-	-	-	-	0.26	6.46	16.55	-83.6	794	-
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	-
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-08S	02/11/2019	-	-	-	-	0.37	7.09	15.2	-124.0	1,058	7.40
MW-08S	05/20/2019	-	-	-	-	0.82	6.58	15.91	-63.4	930	-
MW-08S	08/19/2019	-	-	-	-	0.11	6.71	17.81	-104.6	902	-
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	-
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	-

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	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/RW-10S	02/11/2019	3.1	20.6	1.0	0.0	-	-	-	-	-	-
MW/RW-10S	02/15/2019	-	-	-	-	0.26	6.18	14.78	-112.0	926	94.3
MW/RW-10S	04/02/2019	-	-	-	-	-	6.20	-	-	-	-
MW/RW-10S	05/20/2019	8.6	20.9	0.3	0.0	-	-	-	-	-	-
MW/RW-10S	05/22/2019	-	-	-	-	0.13	6.18	15.40	-44.6	574	-
MW/RW-10S	06/18/2019	-	-	-	-	-	5.90	-	-	-	-
MW/RW-10S	07/23/2019	-	-	-	-	-	6.25	-	-	-	-
MW/RW-10S	08/19/2019	10.4	20.5	0.1	0.0	-	-	-	-	-	-
MW/RW-10S	08/21/2019	-	-	-	-	0.08	6.57	18.49	-84.6	730	-
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	-	-	-	-	-	-
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/RW-14	02/11/2019	2.1	20.9	1.0	0.0	-	-	-	-	-	-
MW/RW-14	02/13/2019	-	-	-	-	0.23	6.33	15.34	-150.0	720	22.9
MW/RW-14	04/02/2019	-	-	-	-	-	6.10	-	-	-	-
MW/RW-14	05/20/2019	79.5	14.8	4.6	0.0	-	-	-	-	-	-
MW/RW-14	05/22/2019	-	-	-	-	0.16	6.47	15.81	-65.1	473	-

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	06/18/2019	-	-	-	-	-	6.26	-	-	-	-
MW/RW-14	07/23/2019	-	-	-	-	-	6.14	-	-	-	-
MW/RW-14	08/19/2019	54.5	20.5	0.0	0.0	-	-	-	-	-	-
MW/RW-14	08/20/2019	-	-	-	-	0.12	6.21	17.24	58.8	266	-
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	-
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-16	02/13/2019	-	-	-	-	4.70	6.81	15.07	93	452	2.3
MW-16	05/21/2019	-	-	-	-	6.57	6.23	16.02	135.1	365	-
MW-16	08/19/2019	-	-	-	-	7.33	6.44	16.75	164.6	359	-
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	-	-	-
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-25S	02/12/2019	-	-	-	-	0.28	6.38	13.5	-90.0	1333	20.3
MW-25S	05/22/2019	-	-	-	-	0.08	6.67	15.21	-122.1	1963	-
MW-25S	08/20/2019	-	-	-	-	0.10	6.84	18.36	-106.1	1362	-
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	-	-	-	-	-	-	-	-

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	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	-
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/RW-25	02/11/2019	0.2	16.3	1.8	0.0	-	-	-	-	-	-
MW/RW-25	02/12/2019	-	-	-	-	0.28	6.20	14.60	-53.0	965	22.60
MW/RW-25	04/02/2019	-	-	-	-	-	6.32	-	-	-	-
MW/RW-25	05/20/2019	7.8	16.0	3.1	0.0	0.15	6.05	16.25	-21.6	798	-
MW/RW-25	06/18/2019	-	-	-	-	-	6.16	-	-	-	-
MW/RW-25	07/23/2019	-	-	-	-	-	6.11	-	-	-	-
MW/RW-25	08/19/2019	12.6	20.8	0.0	0.0	-	-	-	-	-	-
MW/RW-25	08/20/2019	-	-	-	-	0.11	6.20	18.03	18.8	723.6	-
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	-
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-27	02/11/2019	5.0	8.8	10.3	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-27	02/14/2019	-	-	-	-	0.26	6.16	13.76	-62.0	1,640	0.1
MW-27	05/20/2019	1.1	12.2	7.4	0.0	-	-	-	-	-	-
MW-27	05/21/2019	-	-	-	-	0.11	6.17	15.66	12.2	1,642	-
MW-27	08/19/2019	1.5	14.3	4.3	0.0	-	-	-	-	-	-
MW-27	08/20/2019	-	-	-	-	0.31	7.24	18.40	-51.8	1,232	-
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/RW-31	02/14/2019	-	-	-	-	0.38	7.26	11.6	-8.0	504	75.8
MW/RW-31	05/21/2019	-	-	-	-	0.17	7.02	14.62	19.8	546.3	-
MW/RW-31	08/20/2019	-	-	-	-	0.44	7.83	19.36	-63.9	447.0	-
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	-
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	-

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	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	-	-	-	-	-	-
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-51S	02/11/2019	0.3	20.7	0.4	0.0	-	-	-	-	-	-
MW-51S	02/14/2019	-	-	-	-	0.01	6.80	15.60	-58.1	955	-
MW-51S	05/20/2019	0.6	20.9	0.2	0.0	-	-	-	-	-	-
MW-51S	05/22/2019	-	-	-	-	0.14	7.19	15.66	-181.3	787.1	-
MW-51S	06/18/2019	-	-	-	-	-	6.13	-	-	-	-
MW-51S	08/19/2019	1.1	20.0	0.0	0.0	-	-	-	-	-	-
MW-51S	08/21/2019	-	-	-	-	0.09	7.33	18.65	-202.4	818.9	-
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	-
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	-	-	-	-

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	02/11/2019	2.0	20.4	1.3	0.0	-	-	-	-	-	-
MW/RW-51	02/14/2019	-	-	-	-	0.02	6.49	15.74	0.8	1,117	-
MW/RW-51	04/02/2019	-	-	-	-	-	6.59	-	-	-	-
MW/RW-51	05/20/2019	3.6	20.4	1.5	0.0	-	-	-	-	-	-
MW/RW-51	05/21/2019	-	-	-	-	0.13	6.19	16.11	-29.6	1,065	-
MW/RW-51	07/23/2019	-	-	-	-	-	6.28	-	-	-	-
MW/RW-51	08/19/2019	5.6	18.8	0.8	0.0	-	-	-	-	-	-
MW/RW-51	08/21/2019	-	-	-	-	0.13	6.17	18.60	12.0	1,220	-
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	-
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-72S	02/11/2019	0.4	17.6	2.3	0.0	-	-	-	-	-	-
MW/RW-72S	02/14/2019	-	-	-	-	0.16	5.11	15.47	293.0	1,958	-
MW/RW-72S	05/20/2019	1.5	19.8	1.2	0.1	-	-	-	-	-	-
MW/RW-72S	05/22/2019	-	-	-	-	0.31	4.09	14.91	298.9	1,759	-
MW/RW-72S	08/19/2019	3.0	19.0	1.3	0.0	-	-	-	-	-	-
MW/RW-72S	08/22/2019	-	-	-	-	0.50	4.32	20.19	284.4	1,199	-
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	-

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	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	-
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/RW-72	02/11/2019	1.6	5.8	8.0	0.3	-	-	-	-	-	-
MW/RW-72	02/14/2019	-	-	-	-	0.36	3.96	16.15	487.4	2,366	-
MW/RW-72	05/20/2019	4.5	8.8	4.8	0.0	-	-	-	-	-	-
MW/RW-72	05/21/2019	-	-	-	-	0.11	3.07	15.78	384.0	1,900	-
MW/RW-72	08/19/2019	10.6	13.9	3.2	0.4	-	-	-	-	-	-
MW/RW-72	08/22/2019	-	-	-	-	0.15	3.33	18.14	379.6	1,907	-
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	-	-	-
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	-	-	-

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	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	-
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-106	02/11/2019	0.2	14.5	3.4	0.0	-	-	-	-	-	-
MW-106	02/14/2019	-	-	-	-	0.33	3.73	9.61	325	1,700	0.0
MW-106	05/20/2019	5.3	18.2	1.5	0.0	-	-	-	-	-	-
MW-106	05/22/2019	-	-	-	-	0.23	3.51	13.11	345.2	1,943	-
MW-106	08/19/2019	11.8	18.0	2.6	0.0	-	-	-	-	-	-
MW-106	08/22/2019	-	-	-	-	0.16	3.67	20.71	273.9	2,240	-
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	-
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	-	-	-

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-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	-
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-121	02/11/2019	3.4	20.9	0.3	0.0	-	-	-	-	-	-
MW-121	02/13/2019	-	-	-	-	0.09	6.40	16.05	-46.1	1,204	-
MW-121	05/20/2019	14.2	20.9	0.5	0.0	0.17	6.46	16.68	-101.5	1,150	-
MW-121	08/19/2019	31.0	20.5	0.1	0.0	0.16	6.59	17.77	-89.0	1,308.5	-
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	-
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	-	-	-

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	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-122	02/11/2019	2.7	20.9	0.9	0.0	-	-	-	-	-	-
MW-122	02/12/2019	-	-	-	-	0.78	6.64	15.4	-7.0	1,280	-
MW-122	05/20/2019	14.7	20.9	0.9	0.0	-	-	-	-	-	-
MW-122	05/21/2019	-	-	-	-	0.17	6.46	16.07	-59.8	1,170	-
MW-122	08/19/2019	48.8	19.9	0.2	0.0	0.51	7.37	16.92	-62.0	1,122	-
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	-
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	-	-	-	-
MW/RW-123S	02/11/2019	2.8	20.0	1.9	0.0	-	-	-	-	-	-
MW/RW-123S	02/12/2019	-	-	-	-	0.13	6.86	15.46	-76.1	820	-
MW/RW-123S	04/02/2019	-	-	-	-	-	6.44	-	-	-	-
MW/RW-123S	05/20/2019	4.6	20.2	1.5	0.0	-	-	-	-	-	-
MW/RW-123S	05/21/2019	-	-	-	-	0.23	6.77	15.77	-122.3	736	-
MW/RW-123S	06/18/2019	-	-	-	-	-	6.26	-	-	-	-
MW/RW-123S	07/23/2019	-	-	-	-	-	6.40	-	-	-	-
MW/RW-123S	08/19/2019	3.8	18.9	0.6	0.0	-	-	-	-	-	-
MW/RW-123S	08/20/2019	-	-	-	-	0.44	7.46	17.60	-78.6	620	-
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	

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-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	-	-	-	-	-	-
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-1	02/11/2019	0.9	16.6	3.0	0.0	-	-	-	-	-	-
RW-1	02/12/2019	-	-	-	-	0.32	6.85	14.1	-135	716	6.3
RW-1	05/20/2019	0.7	20.6	0.4	0.0	-	-	-	-	-	-
RW-1	05/22/2019	-	-	-	-	0.12	6.82	16.2	-90.4	577.2	-
RW-1	08/19/2019	1.7	20.6	0.0	0.0	0.15	6.96	18.1	-88.1	692.7	-
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	-
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	-
RW-05S	11/27/2018	-	-	-	-	-	6.36	-	-	-	-
RW-05S	01/10/2019	-	-	-	-	-	7.23	-	-	-	-
RW-05S	02/11/2019	2.0	20.3	1.0	0.0	-	-	-	-	-	-
RW-05S	02/13/2019	-	-	-	-	0.30	6.88	13.4	-46.9	558	-
RW-05S	04/02/2019	-	-	-	-	-	6.44	-	-	-	-
RW-05S	05/20/2019	3.4	19.7	1.4	0.0	0.05	7.06	14.3	-154.2	400	-
RW-05S	06/18/2019	-	-	-	-	-	6.48	-	-	-	-
RW-05S	07/23/2019	-	-	-	-	-	6.49	-	-	-	-
RW-05S	08/19/2019	3.8	18.9	1.2	0.0	-	-	-	-	-	-
RW-05S	08/21/2019	-	-	-	-	0.10	6.68	17.15	-106.6	415	-
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					

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	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	-
RW-25S	11/27/2018	-	-	-	-	-	6.13	-	-	-	-
RW-25S	01/10/2019	-	-	-	-	-	5.91	-	-	-	-
RW-25S	02/11/2019	1.3	20.9	0.7	0.0	-	-	-	-	-	-
RW-25S	02/12/2019	-	-	-	-	0.35	6.65	13.53	-102	1,640	103
RW-25S	04/02/2019	-	-	-	-	-	6.41	-	-	-	-
RW-25S	05/20/2019	2.0	20.9	0.4	0.0	0.14	6.80	15.39	-133.4	1,594	-
RW-25S	06/18/2019	-	-	-	-	-	6.38	-	-	-	-
RW-25S	07/23/2019	-	-	-	-	-	6.39	-	-	-	-
RW-25S	08/19/2019	2.3	20.5	0.0	0.0	-	-	-	-	-	-
RW-25S	08/20/2019	-	-	-	-	0.37	7.56	18.36	-89.4	1,799	-
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-28S	02/11/2019	0.9	19.8	0.5	0.0	-	-	-	-	-	-
RW-28S	02/14/2019	-	-	-	-	0.55	7.03	10.72	-26	2,090	226
RW-28S	05/20/2019	0.1	20.9	0.4	0.0	-	-	-	-	-	-
RW-28S	05/21/2019	-	-	-	-	0.88	6.82	14.72	-24.4	1,345	-
RW-28S	08/19/2019	1.0	18.6	1.0	0.0	-	-	-	-	-	-
RW-28S	08/20/2019	-	-	-	-	0.30	7.69	21.09	-88.1	965	-
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	-
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					

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	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-30S	02/11/2019	0.4	17.6	2.5	0.0	-	-	-	-	-	-
RW-30S	02/13/2019	-	-	-	-	0.31	7.05	13.23	12.40	810	-
RW-30S	05/20/2019	0.2	20.9	0.1	0.0	-	-	-	-	-	-
RW-30S	05/21/2019	-	-	-	-	0.34	7.07	15.75	36.0	796	-
RW-30S	08/19/2019	0.8	20.0	0.1	0.0	-	-	-	-	-	-
RW-30S	08/20/2019	-	-	-	-	2.35	7.95	21.00	8.3	822	-
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	-
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-116S	02/11/2019	0.2	20.9	0.7	0.0	-	-	-	-	-	-
RW-116S	02/13/2019	-	-	-	-	0.44	6.43	13.28	37.8	357	-
RW-116S	04/02/2019	-	-	-	-	-	6.10	-	-	-	-
RW-116S	05/20/2019	0.7	20.4	0.7	0.0	-	-	-	-	-	-
RW-116S	05/23/2019	-	-	-	-	0.19	6.32	13.58	-88.1	347	-
RW-116S	06/18/2019	-	-	-	-	-	6.28	-	-	-	-
RW-116S	07/23/2019	-	-	-	-	-	6.47	-	-	-	-
RW-116S	08/19/2019	17.6	20.3	0.0	0.0	-	-	-	-	-	-
RW-116S	08/21/2019	-	-	-	-	0.11	6.88	17.72	-102.4	438	-

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	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	-	-	-	-	-	-
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-117S	02/11/2019	3.1	9.1	4.7	0.0	-	-	-	-	-	-
RW-117S	02/13/2019	-	-	-	-	0.19	6.47	13.85	-112	516	90.2
RW-117S	04/02/2019	-	-	-	-	-	5.90	-	-	-	-
RW-117S	05/20/2019	64.8	6.8	5.9	0.0	-	-	-	-	-	-
RW-117S	05/22/2019	-	-	-	-	0.25	6.51	14.02	-66.7	511	-
RW-117S	06/18/2019	-	-	-	-	-	5.72	-	-	-	-
RW-117S	08/19/2019	12.3	20.4	0.1	0.0	-	-	-	-	-	-
RW-117S	08/21/2019	-	-	-	-	0.12	6.71	17.71	-125.0	598	-
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-118S	02/13/2019	-	-	-	-	0.21	6.18	13.9	-64	646	14.7
RW-118S	05/22/2019	-	-	-	-	0.10	6.27	14.26	-39	635	-
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	-	-	-	-
RW-119S	02/12/2019	-	-	-	-	0.38	6.83	14.97	8.6	874	-
RW-119S	05/20/2019	-	-	-	-	0.14	6.90	15.35	-19.0	811	-
RW-119S	08/19/2019		-	-	-	0.52	7.71	17.30	-43.7	780	-
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
TW-02	08/24/2016	-	-	-	-	0.34	7.10	17.85	-133.2	849	3.95
TW-02	11/28/2017	-	-	-	-	0.14	6.87	17.80	-138.8	474	6.27
TW-02*	02/13/2019	-	-	-	-	1.89	8.61	13.81	-430.6	508	50.0
TW-02*	05/20/2019	-	-	-	-	0.04	6.30	15.22	92.2	869	45.7
TW-02*	08/20/2019	-	-	-	-	0.04	6.46	17.70	-105.6	612	3.38
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	-

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-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	5.84	12.94	48.5	470	-
TW-03	05/22/2017	1.0	14.5	1.3	0.0	0.56	5.43	15.99	105.6	971	10.0
TW-03	08/28/2017	0.9	10.1	6.1	0.0	1.07	7.19	19.79	60.2	590	-
TW-03	11/28/2017	0.2	19.5	1.0	0.0	1.04	5.69	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	6.70	20.57	121.9	970	-
TW-03	05/21/2018	0.2	17.9	0.3	0.0	0.95	5.62	15.49	77.5	1,131	-
TW-03	08/13/2018	0.5	6.0	14.1	0.0	0.14	5.48	20.79	83.5	1,169	4.6
TW-03	11/12/2018	0.1	9.4	9.8	0.0	0.13	5.74	17.83	171.3	1,110	2.69
TW-03	02/11/2019	0.0	8.8	2.2	0.0	-	-	-	-	-	-
TW-03*	02/13/2019	-	-	-	-	2.50	6.21	10.62	-293.5	952	3.13
TW-03*	05/20/2019	0.0	20.6	1.6	0.0	-	5.53	15.91	197.3	671	20.0
TW-03	08/19/2019	0.0	9.4	12.0	0.0	-	-	-	-	-	-
TW-03*	08/21/2019	-	-	-	-	0.23	5.34	21.66	76.4	1,030	1.28
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	-	-	-	-	-	-
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-04*	02/11/2019	-	-	-	-	1.82	5.98	10.61	26.9	824	75.2
TW-04*	05/20/2019	-	-	-	-	1.21	5.59	14.61	94.5	1,055	23.8
TW-04*	08/20/2019	-	-	-	-	1.45	5.66	19.52	9.9	1,765	9.41
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	-	-	-	-	-	-
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	36.2
TW-05	01/10/2019	-	-	-	-	-	4.12	-	-	-	-

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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	02/11/2019	0.0	20.9	1.2	0.0	-	-	-	-	-	-
TW-05*	02/13/2019	-	-	-	-	4.13	5.97	10.53	-303.5	840	2.64
TW-05	04/02/2019	-	-	-	-	-	5.80	-	-	-	-
TW-05*	05/20/2019	0.6	20.6	0.1	0.0	1.78	4.76	15.18	296.9	915	97.4
TW-05	06/18/2019	-	-	-	-	-	4.87	-	-	-	-
TW-05	07/23/2019	-	-	-	-	-	4.35	-	-	-	-
TW-05	08/19/2019	53.0	11.1	7.1	0.0	-	-	-	-	-	-
TW-05*	08/21/2019	-	-	-	-	4.39	4.88	21.37	9.9	1,385	35.9
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
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-06	02/11/2019	0.0	20.9	0.2	0.0	-	-	-	-	-	-
TW-06*	02/13/2019	-	-	-	-	2.69	6.20	11.82	-321.4	659	1.35
TW-06*	05/20/2019	0.3	20.9	0.1	0.0	0.06	5.72	14.87	194.2	567	12.6
TW-06	08/19/2019	3.1	16.6	3.7	0.0	-	-	-	-	-	-
TW-06*	08/21/2019	-	-	-	-	0.26	5.86	20.42	23.7	1,071	6.64
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	-

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	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	-	-	-	-	-	-
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	0.70
TW-07	11/12/2018	0.0	13.8	3.4	0.0	0.88	4.87	16.24	55.8	730	1.75
TW-07*	02/11/2019	0.0	20.9	0.2	0.0	4.46	5.39	7.81	83.9	420	6.34
TW-07*	05/20/2019	0.0	20.9	0.1	0.0	0.23	5.46	17.46	199.5	361	72.8
TW-07	08/19/2019	0.0	19.0	1.6	0.0	-	-	-	-	-	-
TW-07*	08/21/2019	-	-	-	-	3.53	4.70	24.59	151.6	1,186	2.11
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
TW-14*	02/13/2019	-	-	-	-	1.25	6.91	5.5	-18.3	501	71.00
TW-14*	05/20/2019	-	-	-	-	0.49	6.89	17.98	-61.7	693	12.1
TW-14*	08/20/2019	-	-	-	-	1.83	6.79	15.5	-115.1	871	72.90

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)

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.
* = Select measurements (dissolved oxygen, temperature, pH, ORP, specific conductance, turbidity) were collected by Geosyntec during low-flow sampling.

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-01S	2/12/2019	680 E	-	-	170	<0.040	<0.015	260	50.8	10.2
MW-01S	5/20/2019	1,200	-	-	199	<0.040	<0.015	274	29.7	11.1
MW-01S	8/20/2019	390	-	-	189	<0.040	<0.015	284	19.9	11.9
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/RW-10S	2/15/2019	31	-	-	291	<0.040	<0.015	39.4	86.4	3.93
MW/RW-10S	5/22/2019	19	-	-	197	<0.040	<0.015	46.8	42.0	2.51
MW/RW-10S	8/21/2019	25	-	-	261	<0.040	<0.015	45.9	48.4	3.92
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

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/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/RW-14	2/13/2019	2,200	-	-	41.8	<0.040	<0.015	198	62.5	3.88
MW/RW-14	5/22/2019	1,500	-	-	56.9	0.21	<0.015	95.1	30.7	1.46
MW/RW-14	8/20/2019	530	-	-	40.8	0.088 J	<0.015	48.3	5.88	0.373
MW-15S	8/29/2017	-	72.9	-	270	-	-	487	-	-
MW-15S	2/20/2018	-	-	-	73.2	-	-	-	-	-
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-25S	2/12/2019	-	-	-	-	-	-	42.2	-	-
MW-25S	5/22/2019	-	-	-	-	-	-	47.9	-	-
MW-25S	8/20/2019	-	-	-	-	-	-	51.3	-	-
MW/RW-25	11/30/2017	-	-	-	-	-	-	14.4	-	-
MW/RW-25	11/12/2018	-	-	-	-	-	-	40.8	-	-
MW/RW-25	2/12/2019	73	-	-	338	<0.040	<0.015	90.9	30.4	3.94
MW/RW-25	5/20/2019	220	-	-	264	<0.040	<0.015	76.3	19.0	3.34
MW/RW-25	8/20/2019	340	-	-	246	<0.040	<0.15	59.2	17.8	2.95
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-27	2/14/2019	-	-	-	-	-	-	148	-	-
MW-27	5/21/2019	430	-	-	987	<0.040	<0.015	149	15.3	12.8
MW-27	8/20/2019	870	-	-	515	<0.040	0.16 J	195	25.0	10.8
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

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/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	-	-
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-51S	2/14/2019	700	-	-	1,400	<0.040	<0.015	111	61.2	3.94
MW-51S	5/22/2019	490	-	-	199	<0.040	<0.015	133	59.3	3.89
MW-51S	8/21/2019	1,200	-	-	192	<0.040	<0.015	151	60.1	2.83
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/RW-51	2/14/2019	260	-	-	314	0.14	<0.015	125	29.4	14.8
MW/RW-51	5/22/2019	77	-	-	465	0.051 J	<0.015	55.4	42.7	27.2
MW/RW-51	8/21/2019	30	-	-	556	<0.040	0.019 J	39.8	46.0	31.7
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

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/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-72S	2/14/2019	1000	-	-	1,160	<0.040	<0.015	<1.7	88.0	8.71
MW/RW-72S	5/22/2019	1200	-	-	928	<0.040	<0.015	<1.7	26.8	6.56
MW/RW-72S	8/22/2019	2100	-	-	621	<0.040	0.020 J	<2.6	49.3	3.76
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/RW-72	2/14/2019	80	-	-	1,160	<0.040	<0.015	<1.7	2.82	14.1
MW/RW-72	5/21/2019	360	-	-	1,130	<0.040	<0.015	<1.7	17.0	13.4
MW/RW-72	8/22/2019	750	-	-	922	0.044 J	<0.015	<2.6	28.9	12.7
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	-	-	-	-	-
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	-	-

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-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-106	2/14/2019	44	-	-	974	<0.040	<0.015	<1.7	14.9	1.54
MW-106	5/22/2019	47	-	-	1,140	<0.040	<0.015	<1.7	10.1	1.86
MW-106	8/22/2019	140	-	-	1,340	<0.040	<0.015	<2.6	155	3.32
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-121	2/13/2019	84	-	-	118	<0.040	0.027 J	361	122	7.79
MW-121	5/20/2019	100	-	-	278	<0.040	<0.015	276	107	10.3
MW-121	8/19/2019	190	-	-	293	<0.040	<0.015	317	94.6	9.95
MW-122	12/2/2015	1,000	-	-	94.3	<0.040	<0.015	451	7.2	13.1

Table 5

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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-122	5/25/2016	450	-	-	188	0.048 J	<0.015	300	90.8	16.3
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
MW-122	2/12/2019	210	-	-	251	<0.040	<0.015	331	36.9	11.8
MW-122	5/21/2019	380	-	-	308	<0.040	<0.015	318	36.4	9.45
MW-122	8/19/2019	520	-	-	245	<0.040	<0.015	331	39.4	7.05
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-123S	2/12/2019	-	-	-	51.4	-	-	267	-	-
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-1	2/12/2019	-	-	-	70.3	-	-	209	-	-
RW-1	5/22/2019	-	-	-	81.3	-	-	175	-	-
RW-1	8/19/2019	-	-	-	93.6	-	-	210	-	-
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	-	-
RW-05S	2/13/2019	-	-	-	78.2	-	-	89.4	-	-
RW-05S	5/20/2019	-	-	-	50.5	-	-	91.5	-	-
RW-05S	8/21/2019	-	-	-	45.8	-	-	80.3	-	-
MW/RW-05	11/28/2017	-	-	-	-	-	-	21.1	-	-
MW/RW-05	11/12/2018	-	-	-	-	-	-	41.2	-	-
MW/RW-05	2/13/2019	6,000	-	-	297	<0.040	<0.015	83.9	34.7	1.22
MW/RW-05	5/20/2019	7,900	-	-	288	<0.040	<0.015	101	30.1	3.00
MW/RW-05	8/21/2019	6,300	-	-	224	<0.040	<0.015	116	22.2	2.74
RW-25S	2/22/2018	-	-	-	286	-	-	140	-	-
RW-25S	5/21/2018	-	-	-	58.6	-	-	320	-	-

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Potomac River Generating Station
1400 North Royal St
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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)
RW-25S	8/14/2018	-	-	-	284	-	-	451	-	-
RW-25S	11/12/2018	-	-	-	-	-	-	112	-	-
RW-25S	2/12/2019	-	-	-	514	-	-	223	-	-
RW-25S	5/20/2019	-	-	-	280	-	-	455	-	-
RW-25S	8/20/2019	-	-	-	508	-	-	316	-	-
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-28S	2/14/2019	-	-	-	1,150	-	-	102	-	-
RW-28S	5/21/2019	-	-	-	1,060	-	-	133	-	-
RW-28S	8/20/2019	-	-	-	370	-	-	201	-	-
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-116S	2/13/2019	-	-	-	91.4	-	-	23.9	-	-
RW-116S	5/23/2019	-	-	-	86.8	-	-	37.9	-	-
RW-116S	8/21/2019	-	-	-	134.0	-	-	36.5	-	-
RW-117S	11/12/2018	-	-	-	-	-	-	<1.7	-	-
RW-117S	2/13/2019	-	-	-	-	-	-	45.4	-	-
RW-117S	5/22/2019	-	-	-	117	-	-	16.0	-	-
RW-117S	8/21/2019	-	-	-	90	-	-	78.8	-	-
RW-118S	8/29/2017	-	-	-	-	-	-	57.9	-	-
RW-118S	8/14/2018	-	-	-	1,980	-	-	83	-	-
RW-118S	11/13/2018	-	-	-	582	-	-	93.6	-	-
RW-118S	2/13/2019	-	-	-	184	-	-	91.1	-	-
RW-118S	5/22/2019	-	-	-	211	-	-	46.6	-	-
RW-118S	8/20/2019	-	-	-	211	-	-	58.9	-	-
RW-119S	8/28/2017	-	109	<0.2	403	-	-	117	-	-
RW-119S	11/29/2017	-	-	-	17.3	-	-	-	-	-
RW-119S	2/20/2018	-	-	-	356	-	-	214	-	-
RW-119S	5/21/2018	-	-	-	533	-	-	399	-	-
RW-119S	8/14/2018	-	-	-	587	-	-	214	-	-
RW-119S	11/13/2018	-	-	-	317	-	-	98.1	-	-
RW-119S	2/12/2019	-	-	-	243	-	-	142	-	-
RW-119S	5/21/2019	-	-	-	255	-	-	172	-	-
RW-119S	8/19/2019	-	-	-	197	-	-	204	-	-
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

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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-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-03	11/13/2018	93	-	-	549	<0.040	<0.015	39.2	59.2	7.92
TW-03	2/13/2019	49	-	-	244	<0.040	<0.015	20.5	33.9	7.13
TW-03	5/21/2019	89	-	-	447	<0.040	<0.015	22.6	57.9	6.85
TW-03	8/21/2019	58	-	-	413	<0.040	0.056	<2.6	91.5	7.53
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	-	-	-	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-05	11/13/2018	20	-	-	349	0.13	<0.015	2.1 J	58.9	2.72
TW-05	2/13/2019	18	-	-	432	<0.040	<0.015	<1.7	108	4.34
TW-05	5/21/2019	28	-	-	883	<0.040	<0.015	<1.7	167	4.38
TW-05	8/21/2019	49	-	-	654	<0.040	0.038 J	<2.6	191	4.66
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	-	-	-	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

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)
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
TW-06	11/13/2018	12	-	-	131	0.48	<0.015	55.6	10.8	0.288
TW-06	2/13/2019	40	-	-	266	0.14	0.018 J	25.8	67.0	1.17
TW-06	5/21/2019	47	-	-	393	<0.040	<0.015	26.1	71.8	1.27
TW-06	8/21/2019	99	-	-	956	<0.25	-	<2.6	123	2.40
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	-	-
TW-07	2/11/2019	-	-	-	285	-	-	11.3	-	-
TW-07	5/20/2019	85	-	-	335	0.31	<0.015	17.2	25.9	4.09
TW-07	8/20/2019	110	-	-	674	0.27	0.029 J	<2.6	79.2	9.87
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
<# = Less than the method detection limit of #
µg/L = Micrograms per liter
mg/L = Milligrams per liter

Table 6

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	-	830	**-**	-	-	-	2,572	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		**26.9**	10.1	21	0.22		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	4,671	4,207
April 13, 2016	6	5.9	568	13.7	380	71	-	21.7	129	424	0.14		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	4,121	8,530
May 18, 2016	13	8.9	1248	14.4	350	48	-	13.4	119	759	0.12		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	10,131	31,745
August 15, 2016	11	7.4	3103	16.0	350	-	-	**2.2**	16	1350	0.38		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	11,516	39,684
September 22, 2016	21	20.8	3865	16.6	345	23.7	-	6.6	136	1513	0.20		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 6

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 6

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**	

Table 6

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)
January 10, 2019	14	7.0	11244	17.0	360	-	-	0.3	2	2956	4.80	72161	382,037
January 24, 2019	14	6.9	11410	7.3	340	1.2	-	0.3	2	2958	2.38		405,785
February 15, 2019	22	7.2	11583	16.8	350	-	-	0.3	2	2961	1.46	16073	420,922
February 21, 2019	6	0.2	11588	16.3	375	-	-	0.6	0	2961	3.12		421,858
March 7, 2019	14	7.1	11759	16.5	375	2.0	-	0.6	4	2965	2.70	66844	449,529
March 19, 2019	12	7.3	11934	16.0	330	1.2	-	0.3	2	2967	3.73		488,702
Q1 2019	**82**	**36**		**15.0**	**355**	**1**			**13.8**		**3.01**	**155,078**	
April 2, 2019	14	6.6	12092	17.0	310	2.2	-	0.5	4	2971	2.49	58453	512,280
April 22, 2019	20	6.3	12244	17.0	330	2.0	-	0.5	3	2974	3.82		547,155
May 6, 2019	14	7.8	12432	17.0	340	-	-	0.5	4	2979	3.32	56882	584,613
May 23, 2019	17	4.5	12541	17.0	350	-	-	1.0	5	2983	2.97		604,037
June 4, 2019	12	9.5	12768	16.6	375	3.6	-	1.1	10	2994	2.68	66208	640,522
June 18, 2019	14	7.0	12936	17.0	300	3.1	-	0.7	5	2999	2.95		670,245
Q2 2019	**91**	**42**		**16.9**	**334**	**3**			**31.2**		**3.02**	**181,543**	
July 9, 2019	21	7.0	13104	17.0	310	2.2	-	0.5	4	3003	3.17	66696	702,182
July 23, 2019	14	7.3	13280	17.0	305	1.8	-	0.4	3	3006	3.29		736,941
August 9, 2019	17	0.3	13287	17.0	320		-	0.5	0	3006	4.52	38066	738,839
August 22, 2019	13	6.2	13436	16.0	360	-	-	0.5	3	3009	4.05		775,007
September 3, 2019	12	7.1	13607	15.7	370	-	-	0.5	4	3013	3.43		810,165
September 17, 2019	14	9.3	13829	15.7	365	-	-	0.5	5	3018	2.75	113318	846,821
September 29, 2019	12	11.9	14114	-	-	-	-	-	-	-	2.43		888,325
Q3 2019	**91**	**49**		**16.4**	**338**	**2**			**19.1**		**3.09**	**218,080**	

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.

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

Table 6

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 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 7

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 7

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 7

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**																	
January 10, 2019	System Off																	
January 24, 2019	System Off																	
February 15, 2019	System Off																	
February 21, 2019	System Off																	
March 7, 2019	System Off																	
March 19, 2019	System Off																	
Q1 2019	**System Off**																	
April 2, 2019	System Off																	
April 22, 2019	System Off																	
May 6, 2019	System Off																	
May 23, 2019	System Off																	
June 4, 2019	System Off																	
June 18, 2019	System Off																	
Q2 2019	**System Off**																	

Table 7

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
July 9, 2019	System Off																	
July 23, 2019	System Off																	
August 9, 2019	System Off																	
August 22, 2019	System Off																	
September 3, 2019	System Off																	
September 17, 2019	System Off																	
September 29, 2019	System Off																	
Q3 2019	**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 8

BIOSPARGE OPERATIONAL SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

DATE	Operation		Biosparge Injection Points														
	Period (days)	Operating Days	SP-01 Flow (scfm)	SP-02 Flow (scfm)	SP-03 Flow (scfm)	SP-04 Flow (scfm)	SP-05 Flow (scfm)	SP-06 Flow (scfm)	SP-07 Flow (scfm)	SP-08 Flow (scfm)	SP-09 Flow (scfm)	SP-10 Flow (scfm)	SP-11 Flow (scfm)	SP-12 Flow (scfm)	SP-13 Flow (scfm)	SP-14 Flow (scfm)	SP-15 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 8

BIOSPARGE OPERATIONAL SUMMARY

Potomac River Generating Station
1400 North Royal St
Alexandria, VA

DATE	Operation		Biosparge Injection Points														
	Period (days)	Operating Days	SP-01 Flow (scfm)	SP-02 Flow (scfm)	SP-03 Flow (scfm)	SP-04 Flow (scfm)	SP-05 Flow (scfm)	SP-06 Flow (scfm)	SP-07 Flow (scfm)	SP-08 Flow (scfm)	SP-09 Flow (scfm)	SP-10 Flow (scfm)	SP-11 Flow (scfm)	SP-12 Flow (scfm)	SP-13 Flow (scfm)	SP-14 Flow (scfm)	SP-15 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														
Q3 2018	**71**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
October-18	27	0.0	System Off														
November-18	36	0.0	System Off														
December-18	29	0.0	System Off														
Q4 2018	**92**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
January-19	28	0.0	System Off														
February-19	28	0.0	System Off														
March-19	26	0.0	System Off														
Q1 2019	**82**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
April-19	34	0.0	System Off														
May-19	31	0.0	System Off														

Table 8

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)
June-19	26	0.0	System Off														
Q2 2019	**91**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**
July-19	34	0.0	System Off														
August-19	31	0.0	System Off														
September-19	26	0.0	System Off														
Q3 2019	**91**	**0**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**	**OFF**

Notes:

scfm - standard cubic feet per minute

Table 9

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 9

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**						
January-19	72,161	6.5	3.91	0	0	0.0	0	0	67	94	85	2958	3205	437
February-19	16,073	NS	0.87**	0	0	0.0	0	0	68	94	85	2961	3208	438
March-19	66,844	3.9	2.18	0	0	0.0	0	0	70	94	85	2967	3217	439
Q1 2019			**7.0**			**0.0**		**0**						
April-19	58,453	NS	1.9**	0	0	0.0	0	0	72	94	85	2974	3226	440
May-19	56,882	NS	7.6**	0	0	0.0	0	0	80	94	85	2983	3242	443
June-19	66,208	16	8.84	0	0	0.0	0	0	89	94	85	2999	3267	446
Q2 2019			**18.3**			**0.0**		**0**						
July-19	66,696	NS	8.91**	0	0	0.0	0	0	98	94	85	3006	3282	448
August-19	38,066	5.8	1.84	0	0	0.0	0	0	100	94	85	3009	3288	449
September-19	113,318	NS	5.48**	0	0	0.0	0	0	105	94	85	3018	3302	451
Q3 2019			**16.2**			**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

Table 9

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)

* - The LNAPL drum was emptied during an oil/water separator cleaning event.

** - Groundwater was not sampled. The prior or following 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

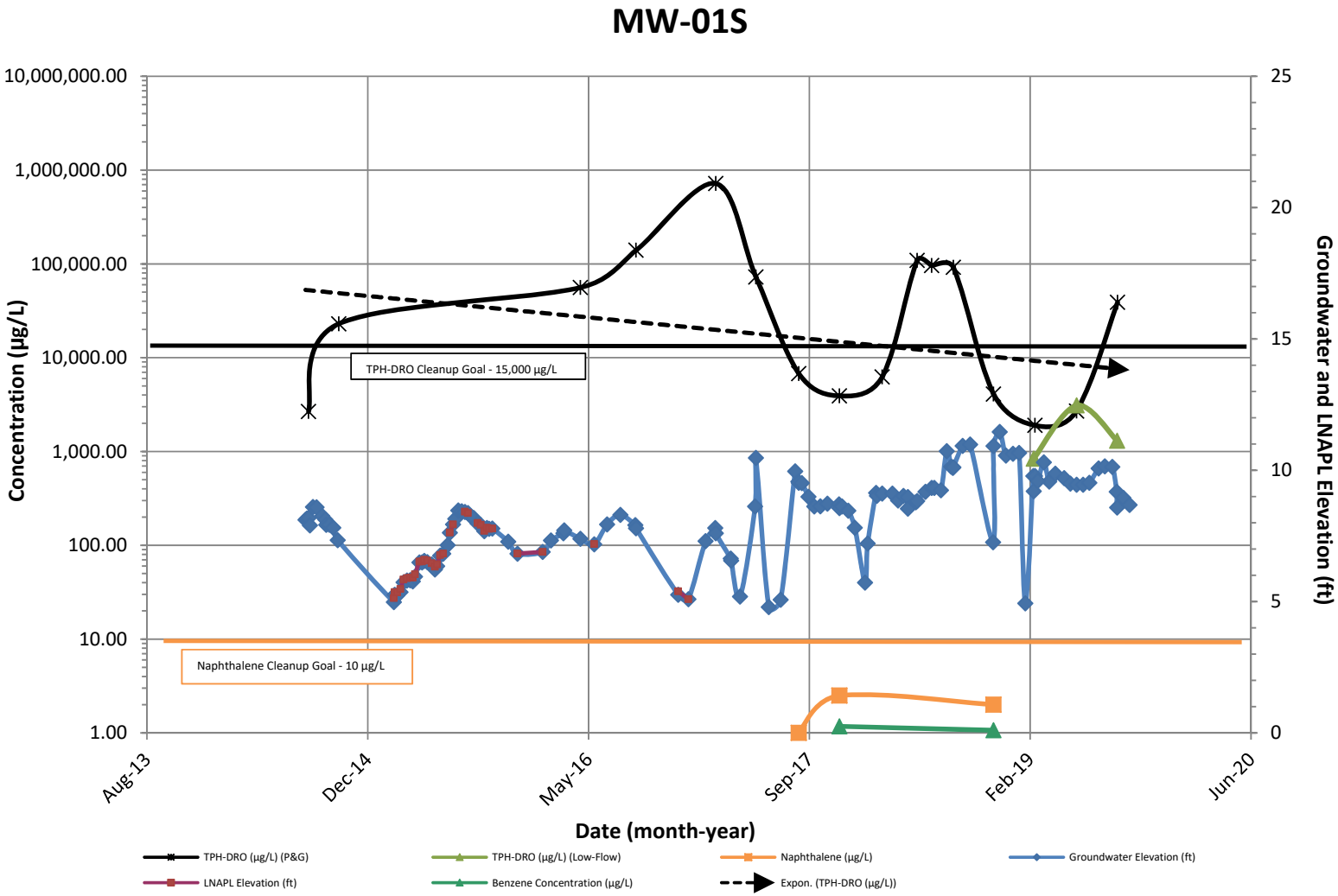
Conversion of recovered hydrocarbons from pounds to gallons:

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

Attachment A – Concentration Trend Graphs

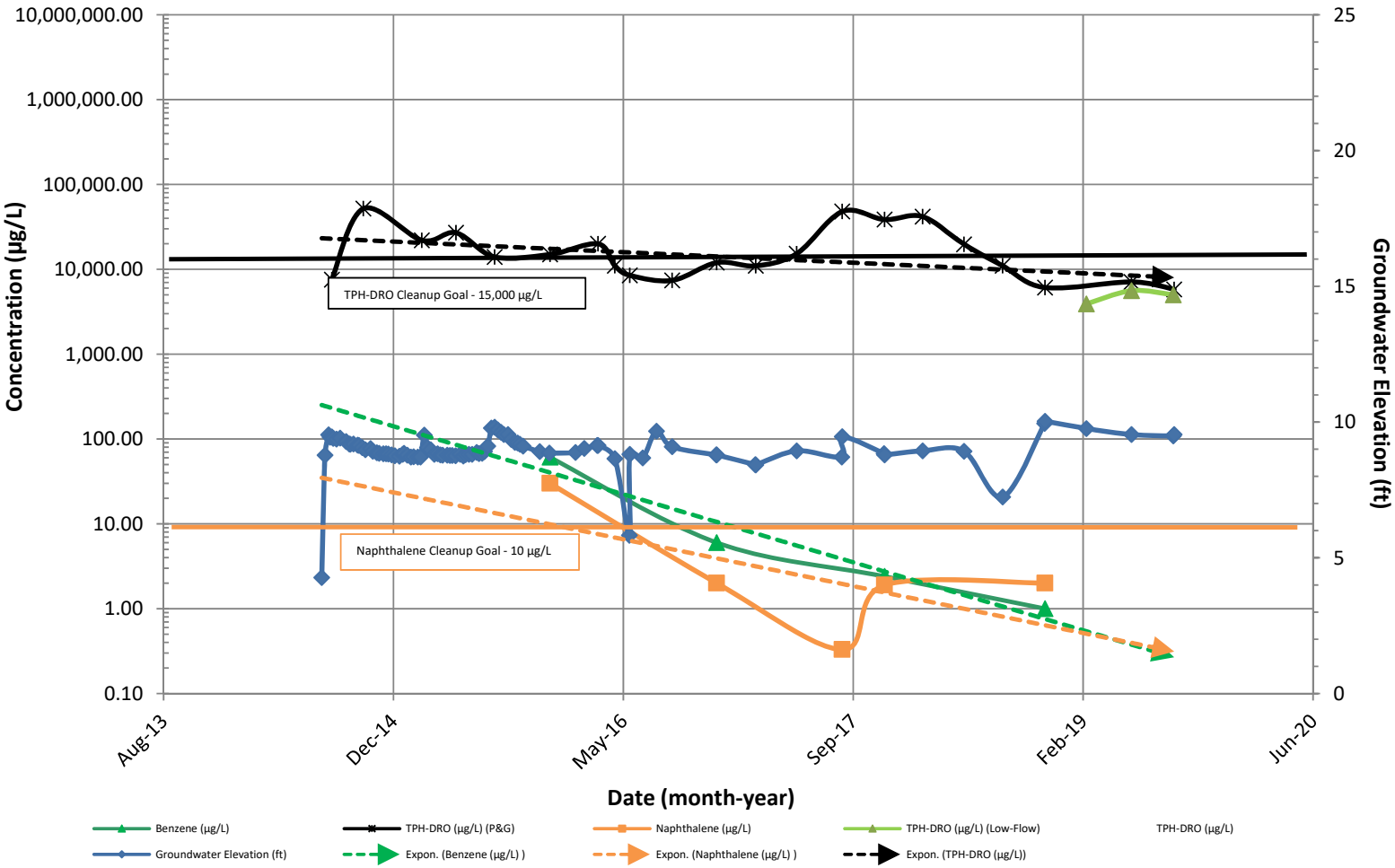
CONCENTRATION TREND GRAPHS

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).

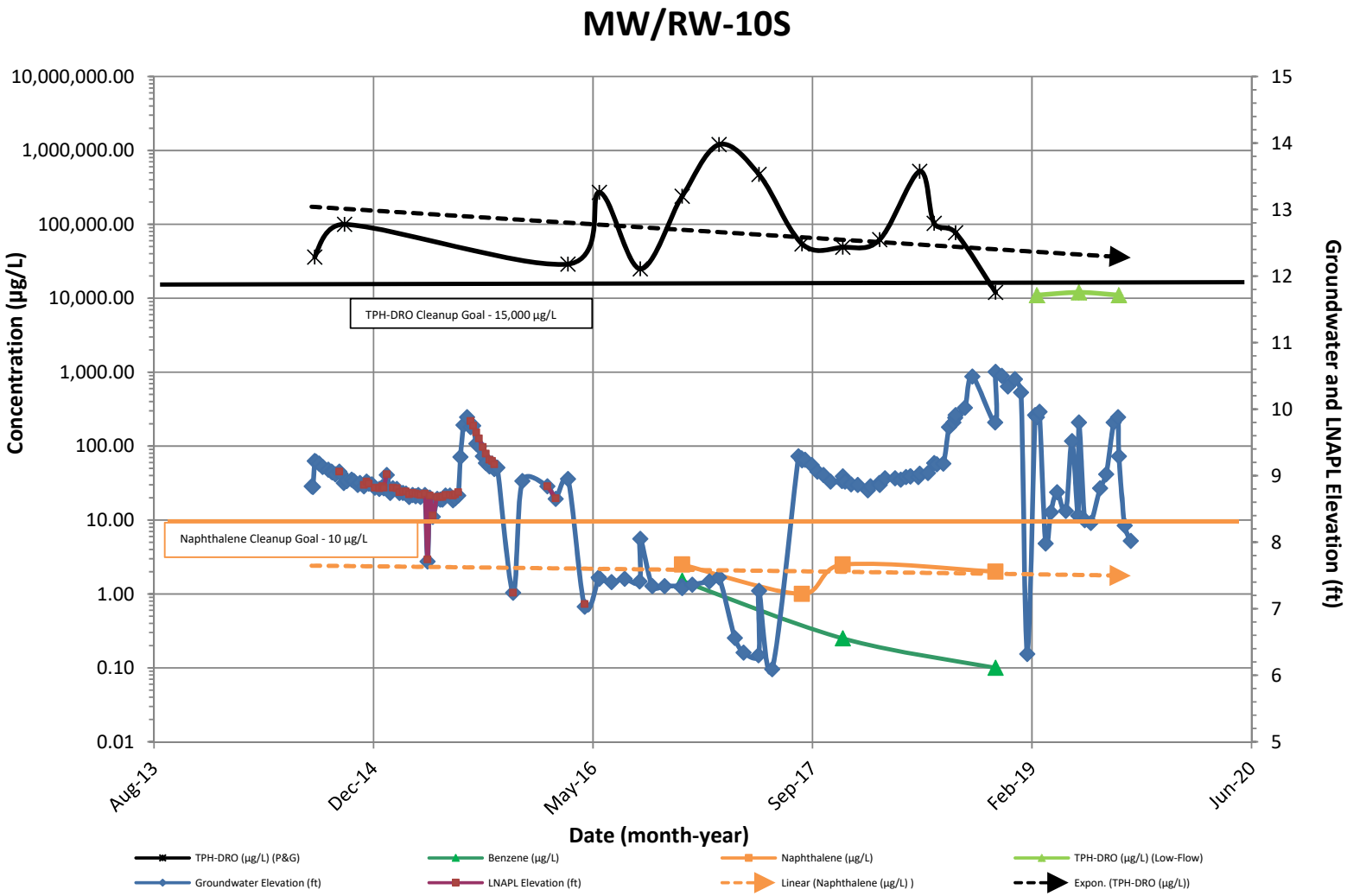
MW-08S



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

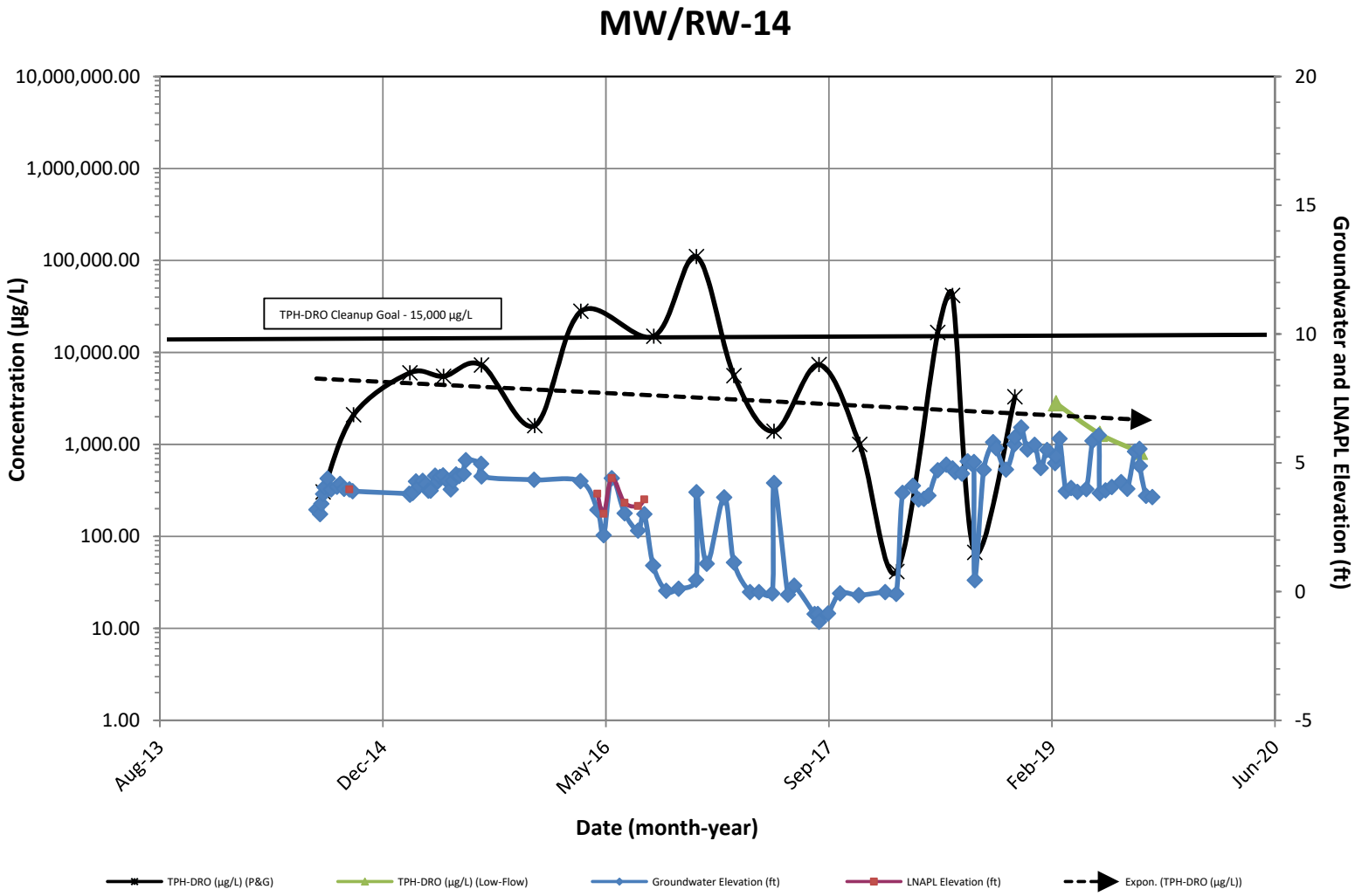
NRG PRGS
1400 North Royal Street
Alexandria, VA



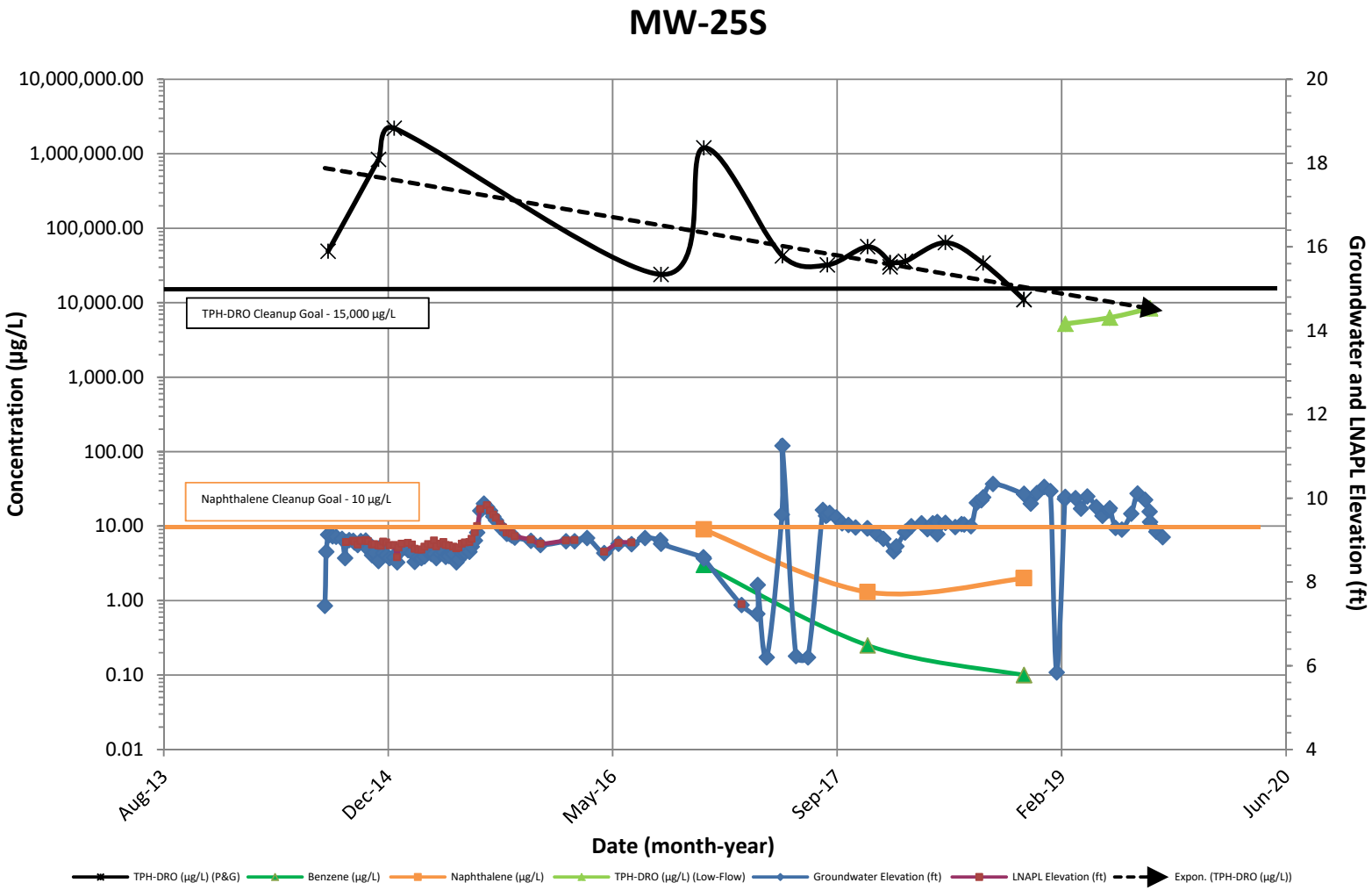
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

CONCENTRATION TREND GRAPHS

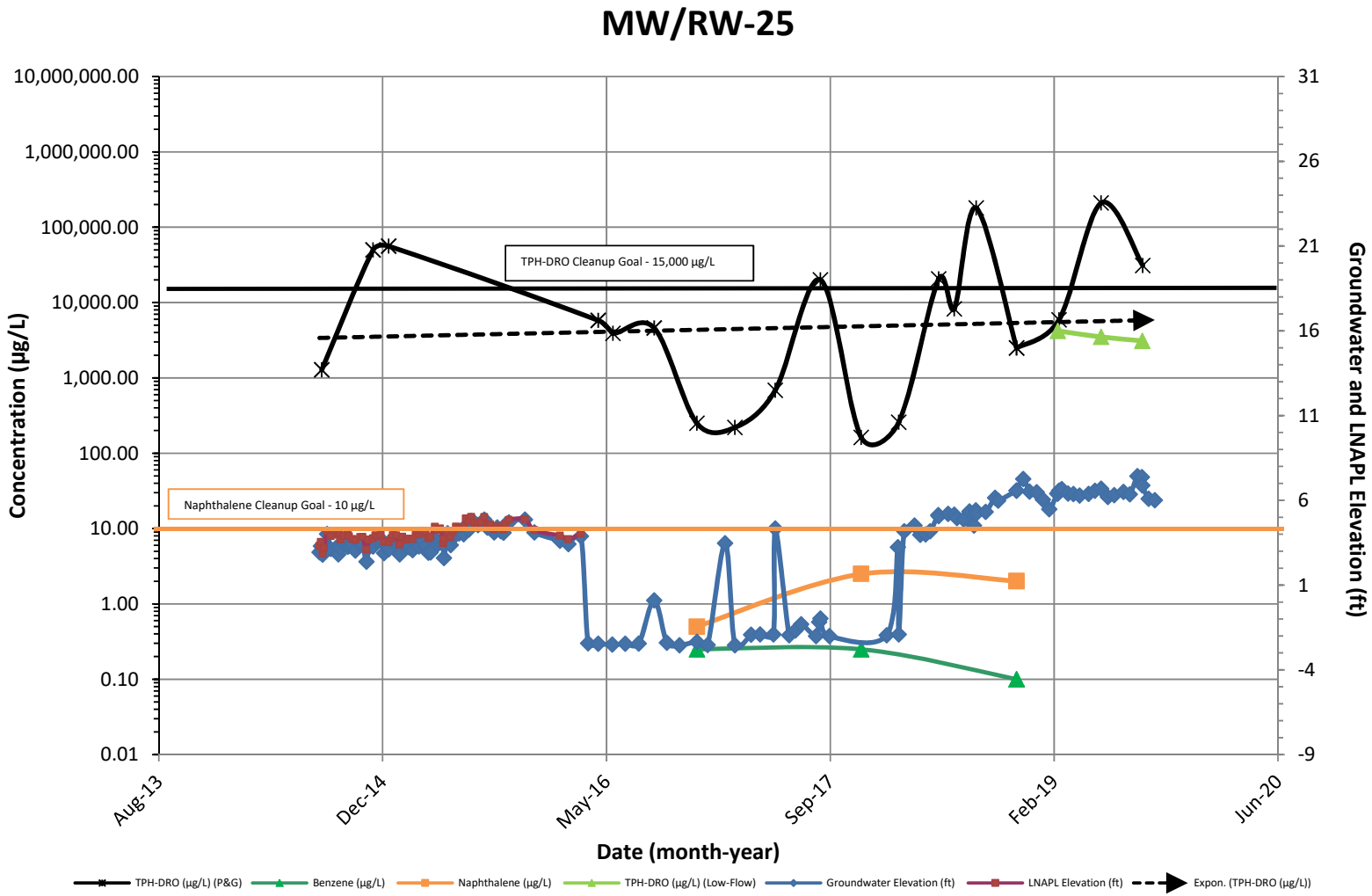
NRG PRGS
1400 North Royal Street
Alexandria, VA



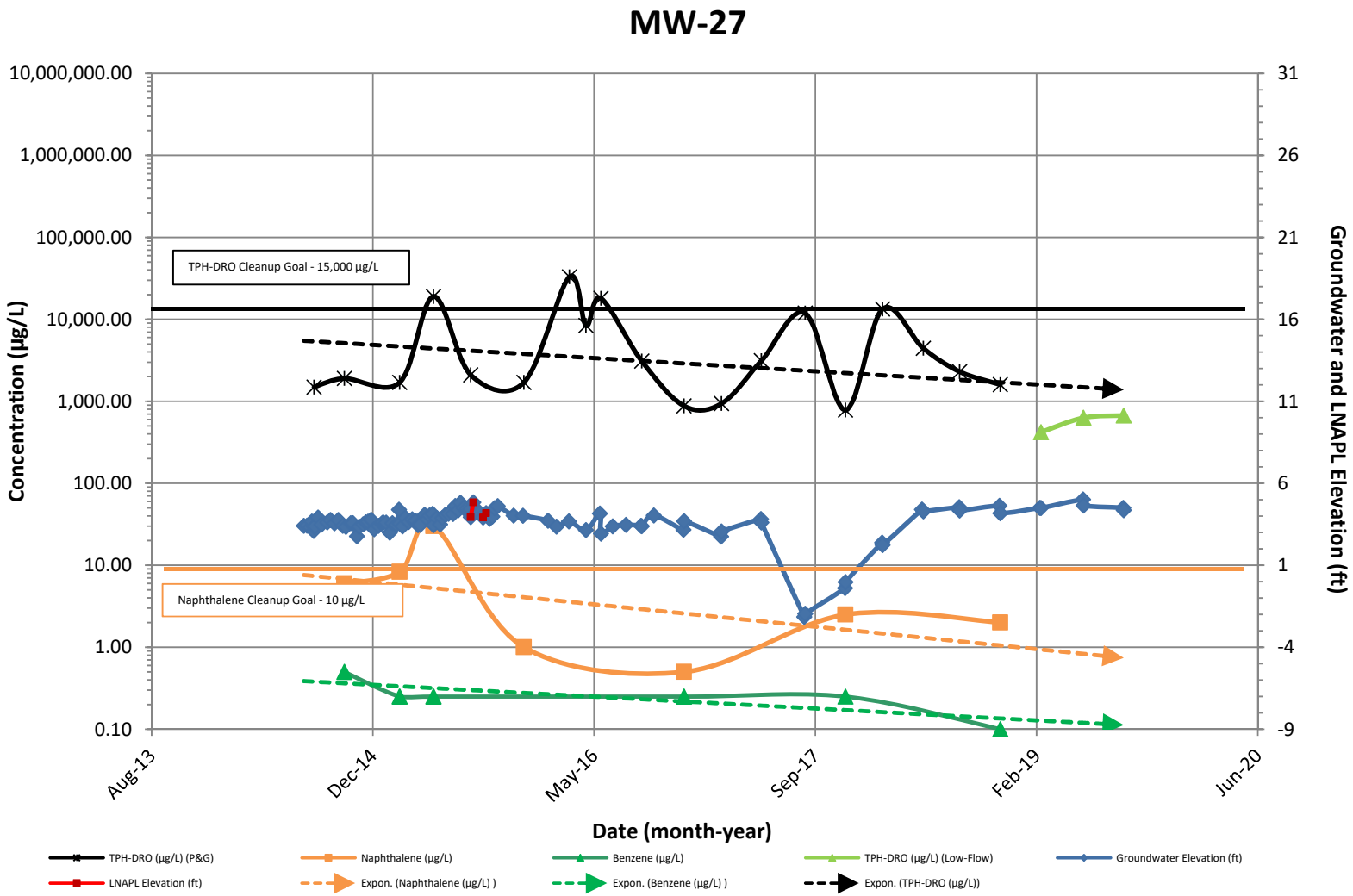
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



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).



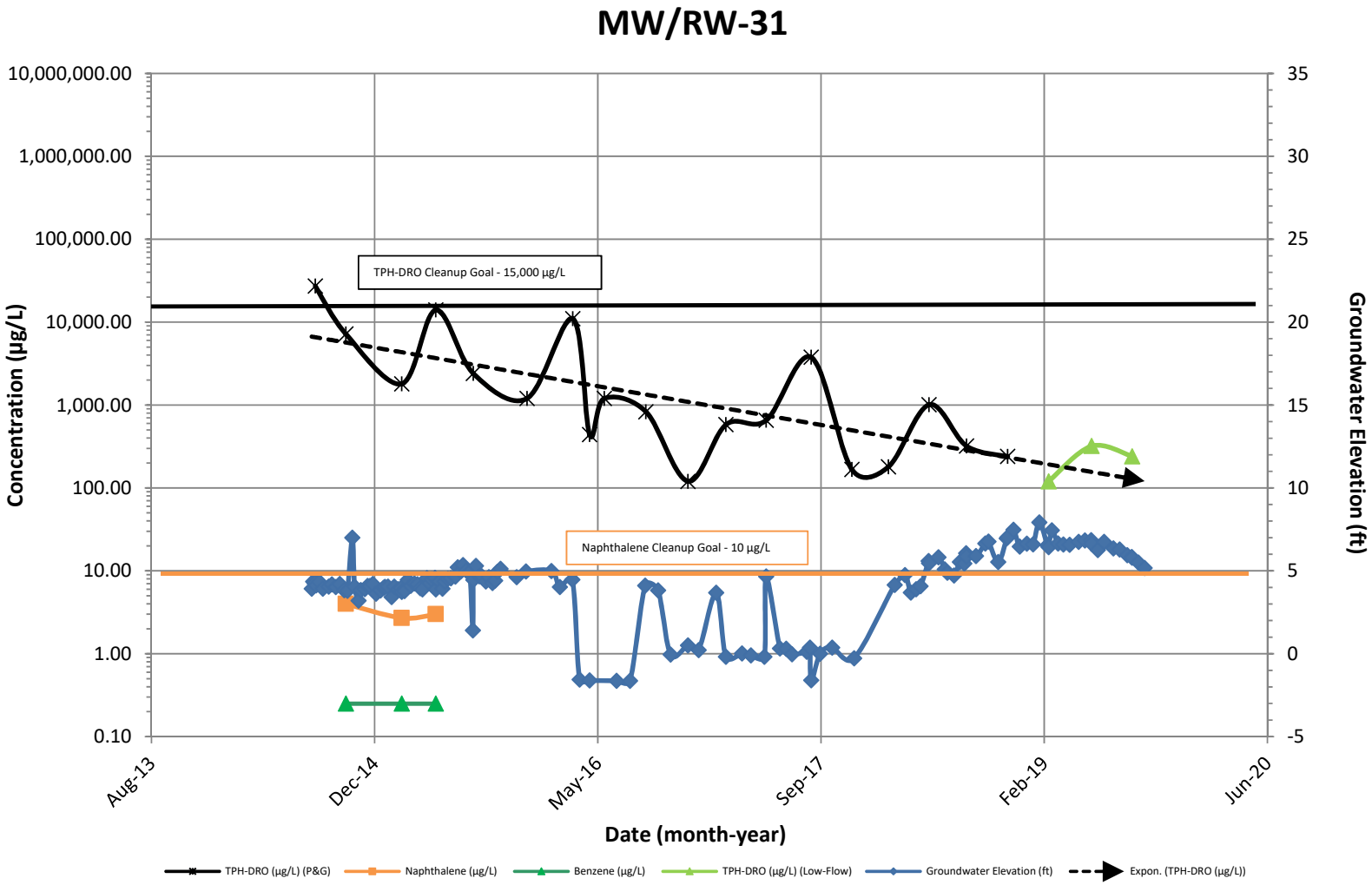
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



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).

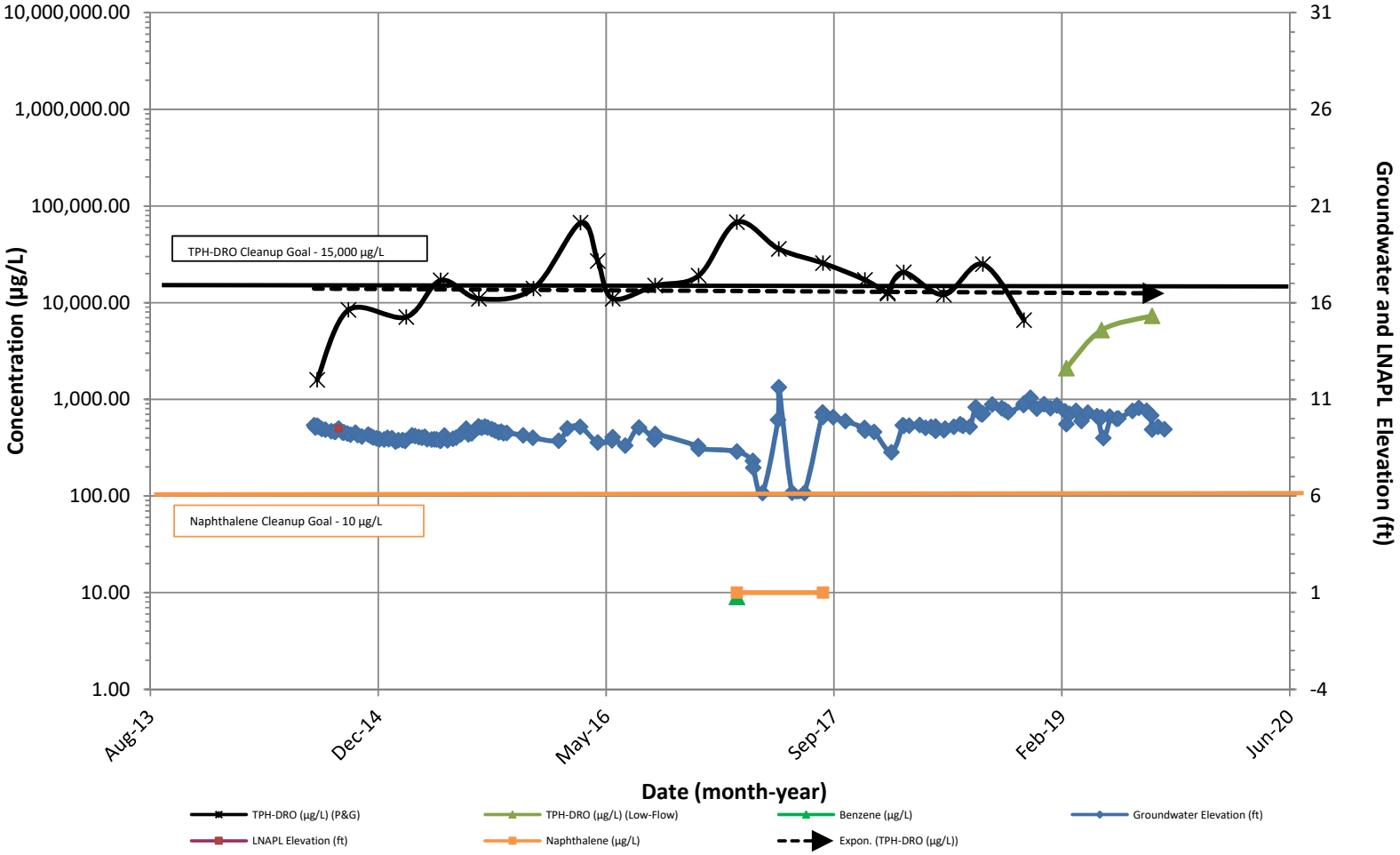
CONCENTRATION TREND GRAPHS

NRG PRGS
1400 North Royal Street
Alexandria, VA

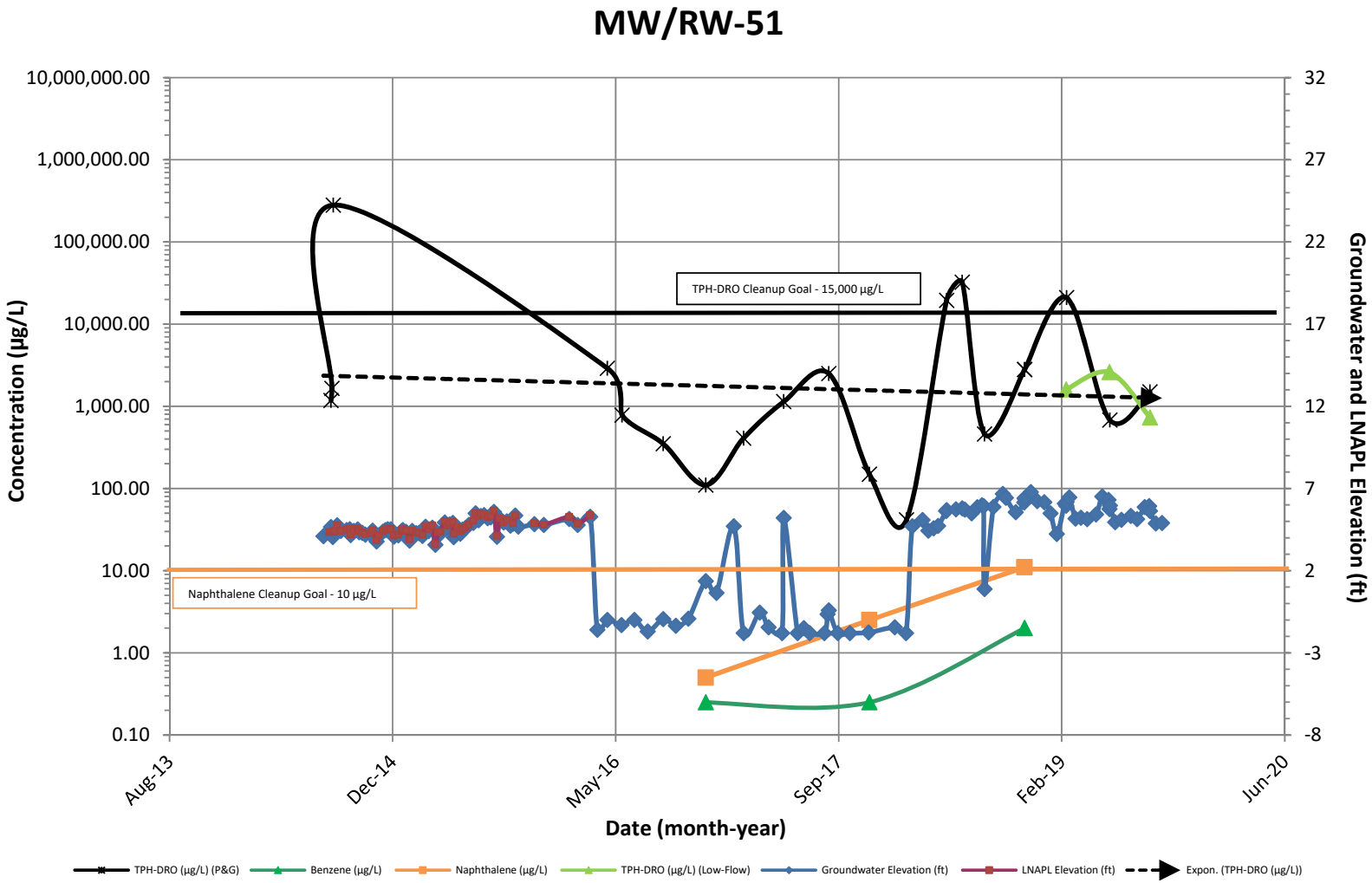


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

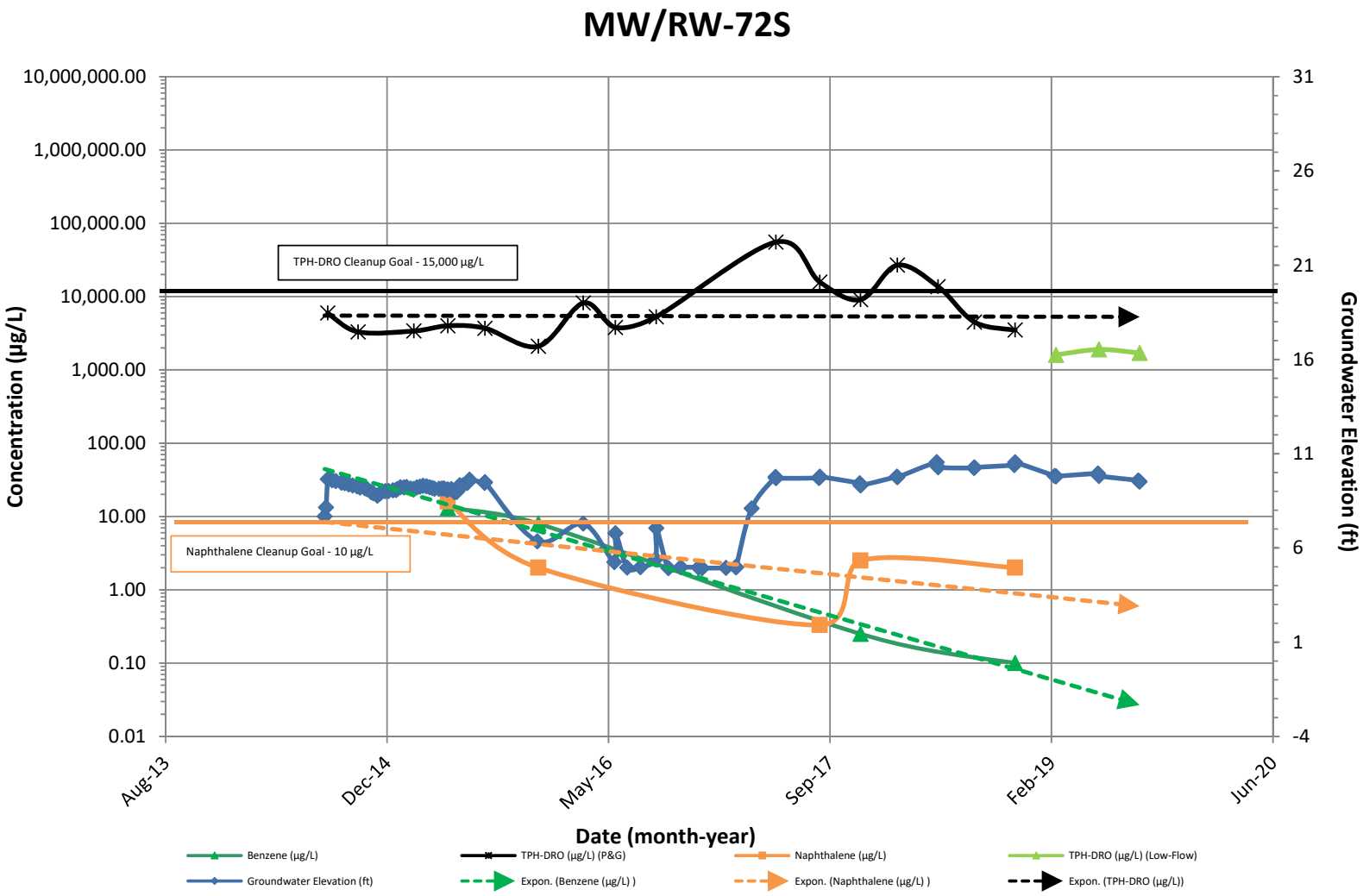
MW-51S



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).



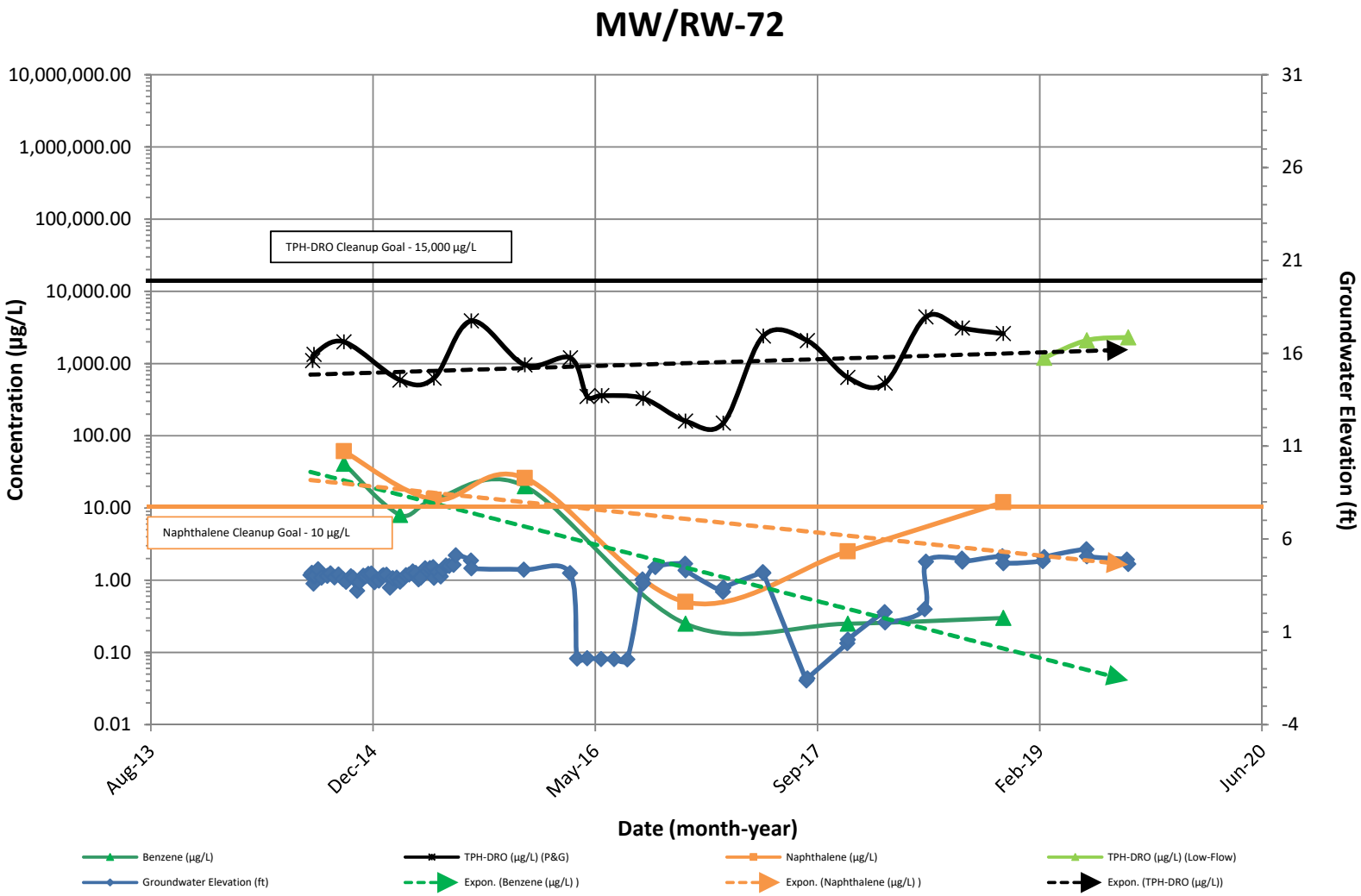
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



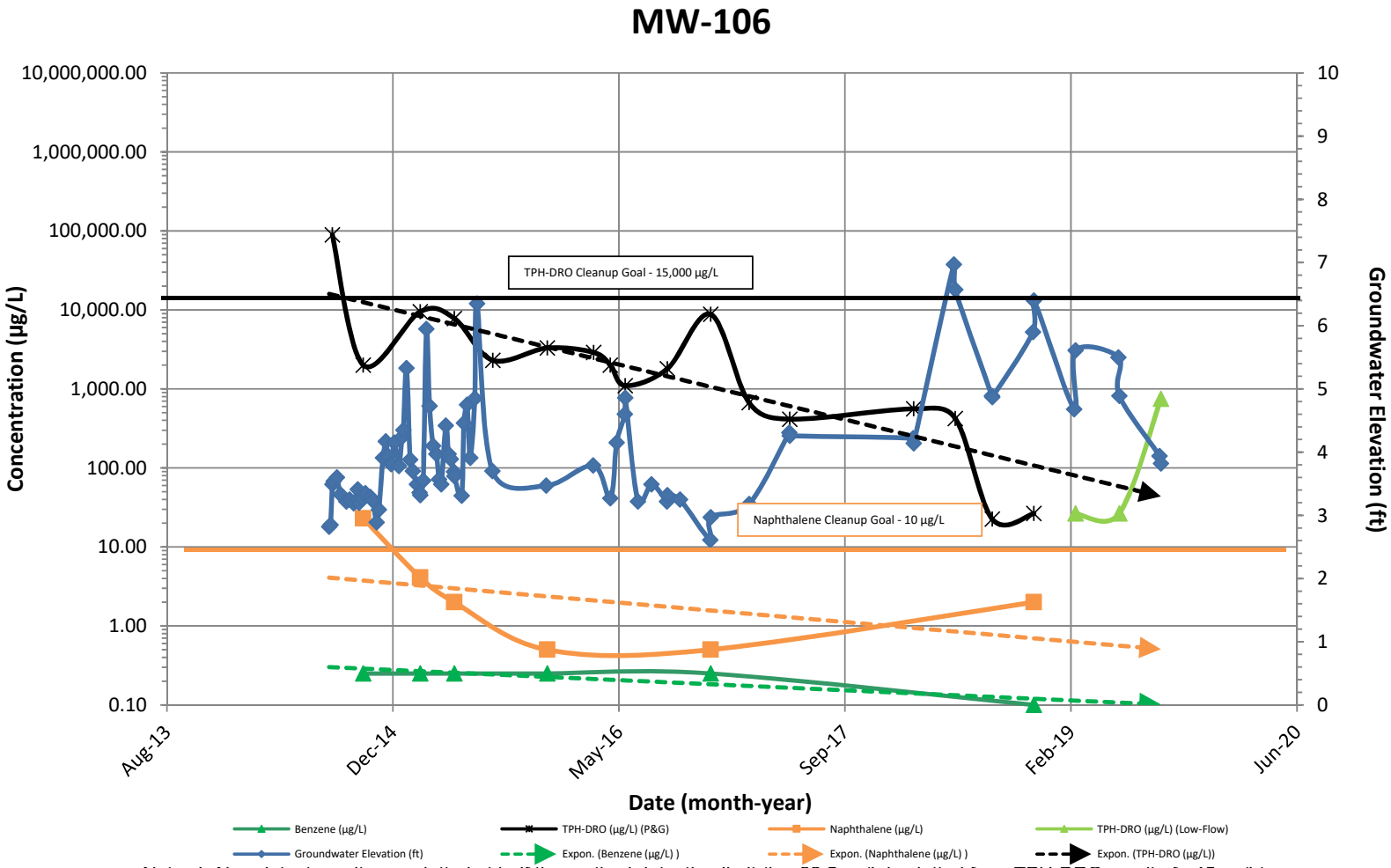
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

CONCENTRATION TREND GRAPHS

NRG PRGS
1400 North Royal Street
Alexandria, VA

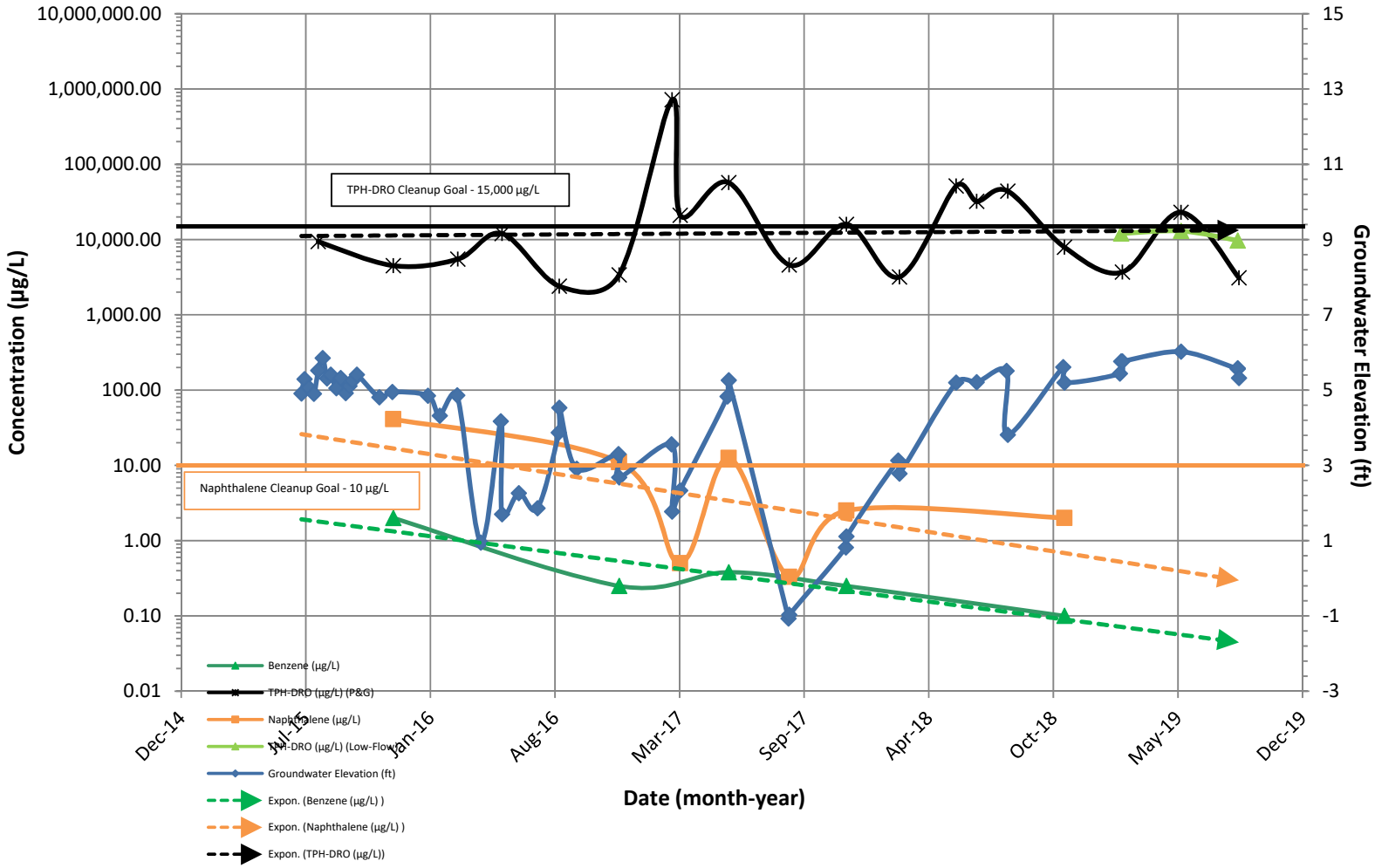


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

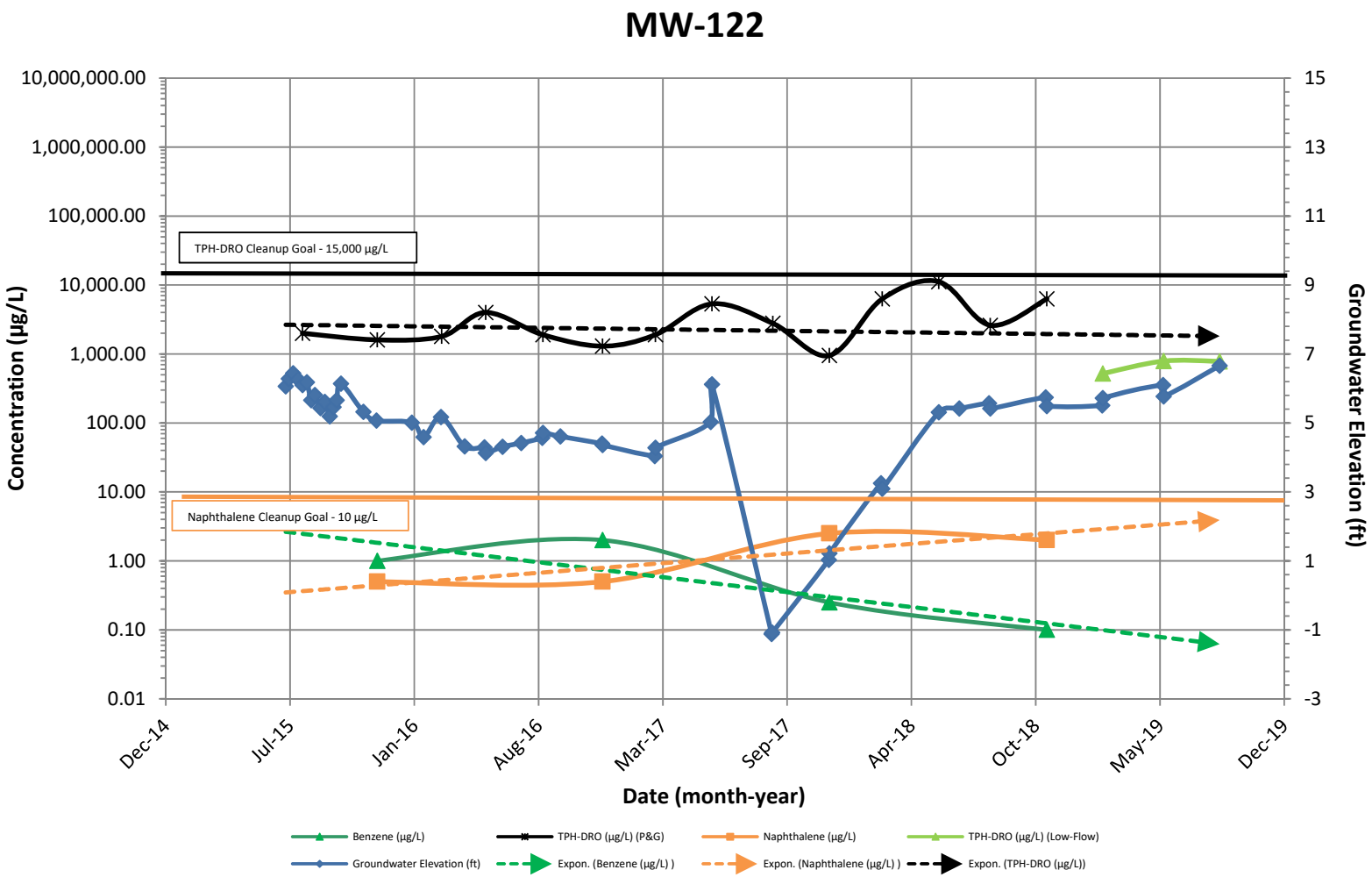


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

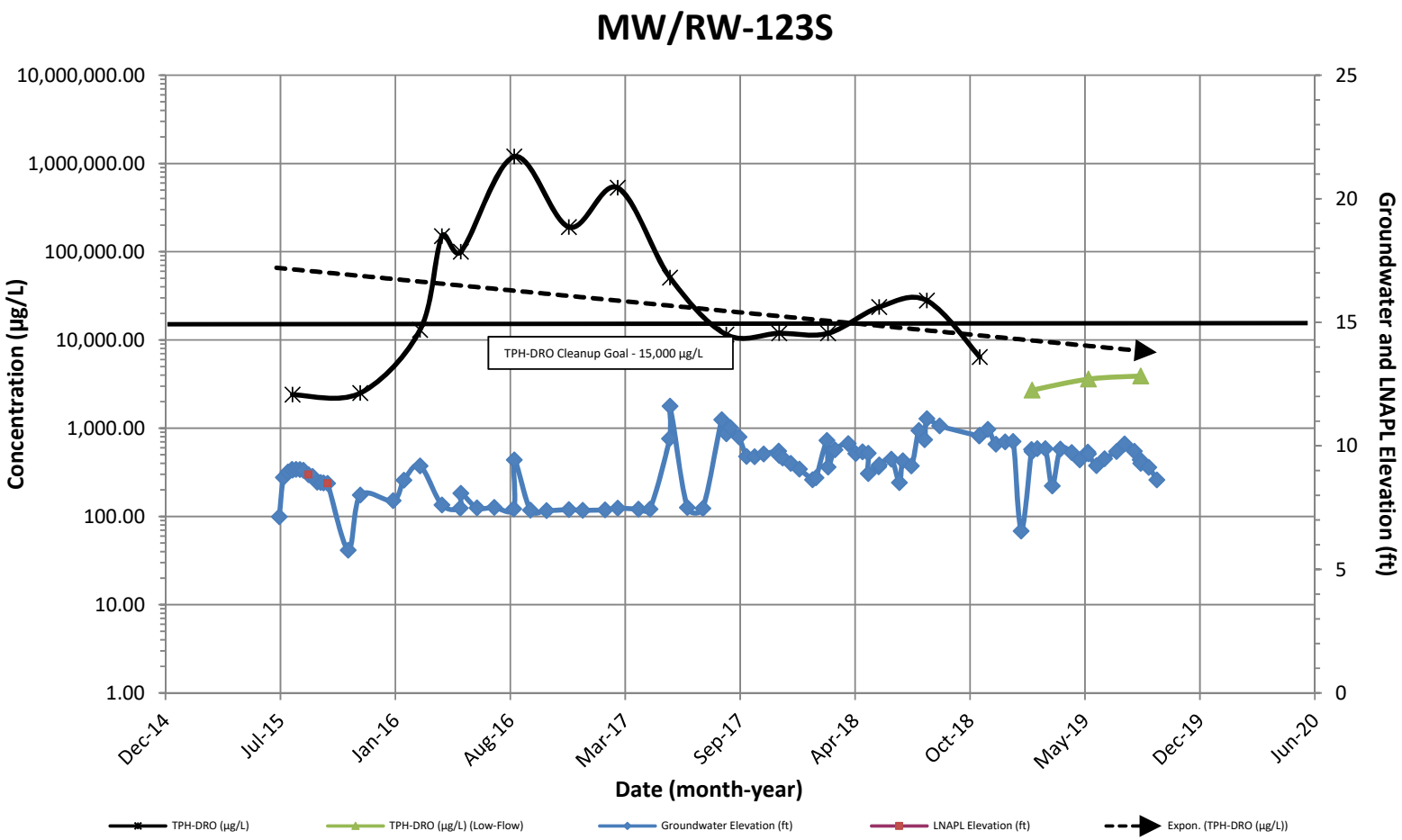
MW-121



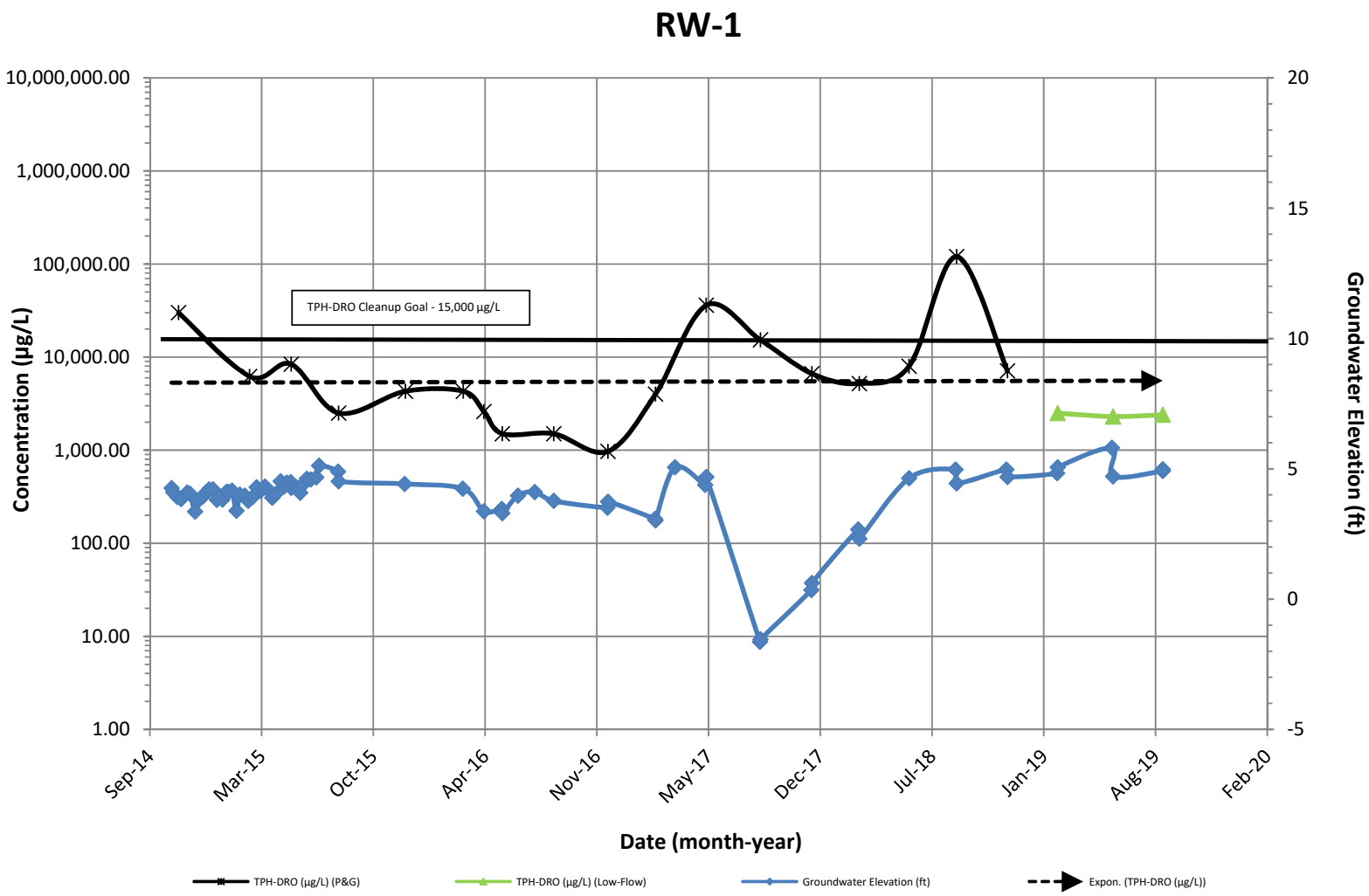
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



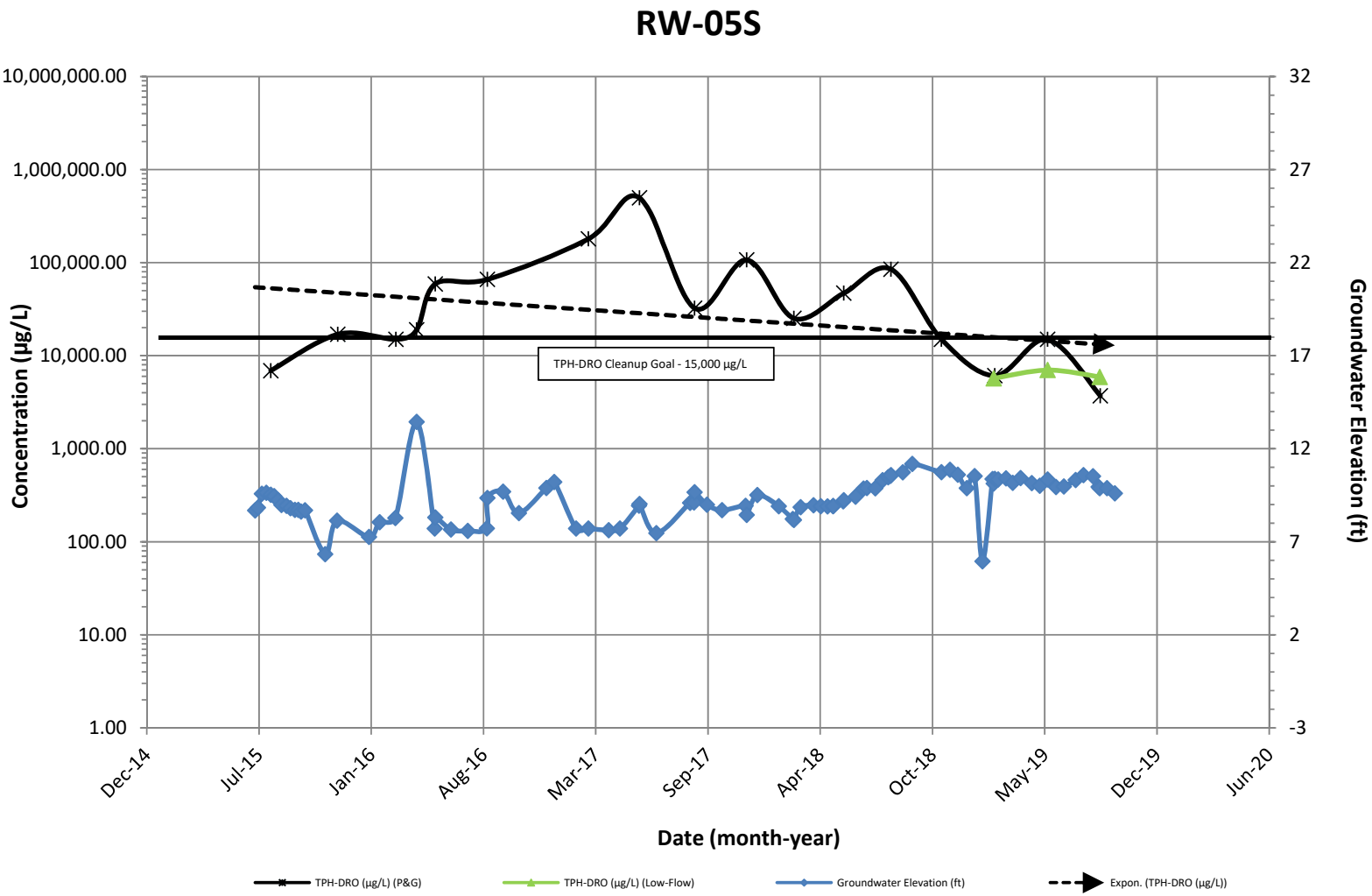
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



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).



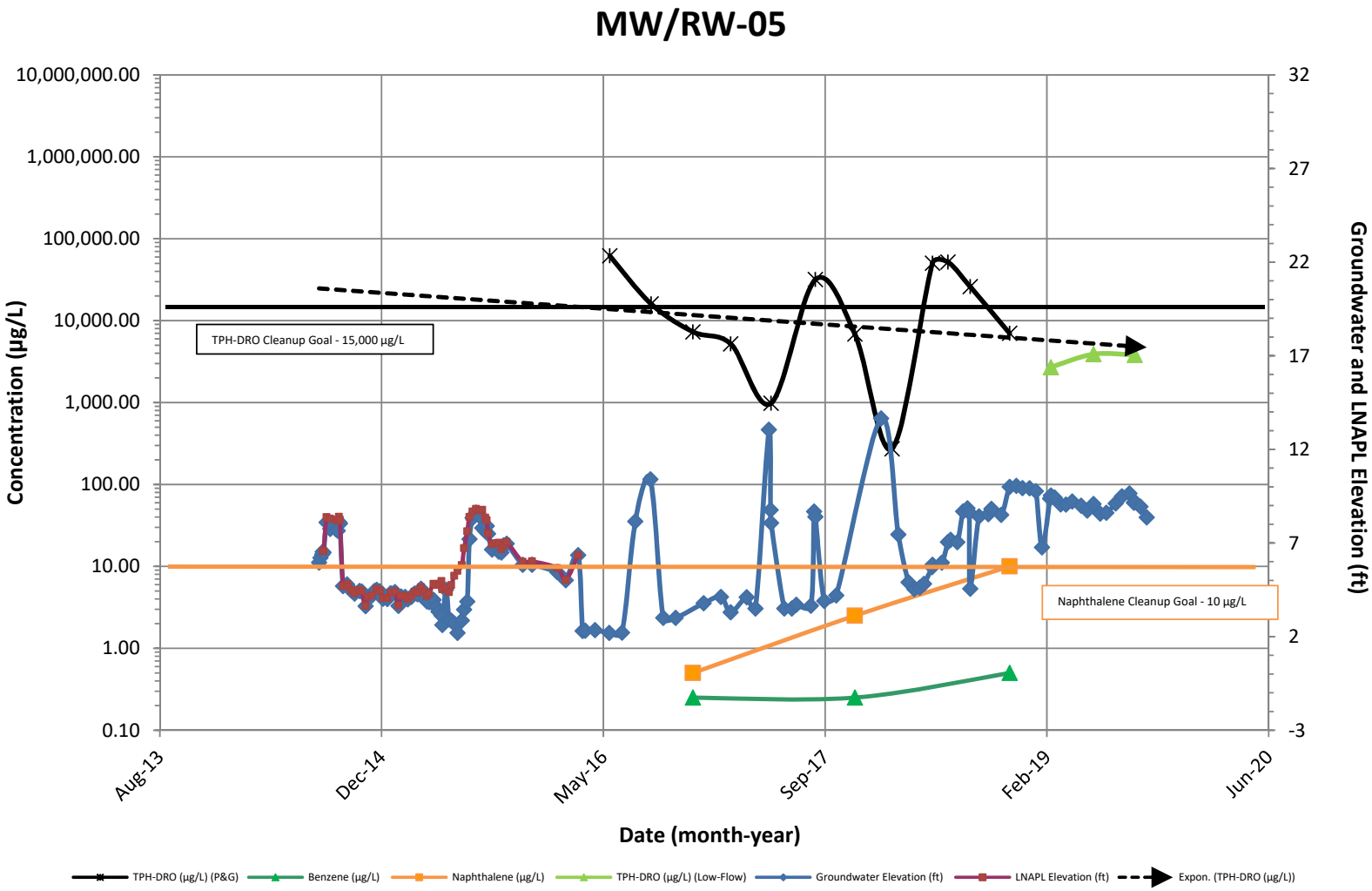
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



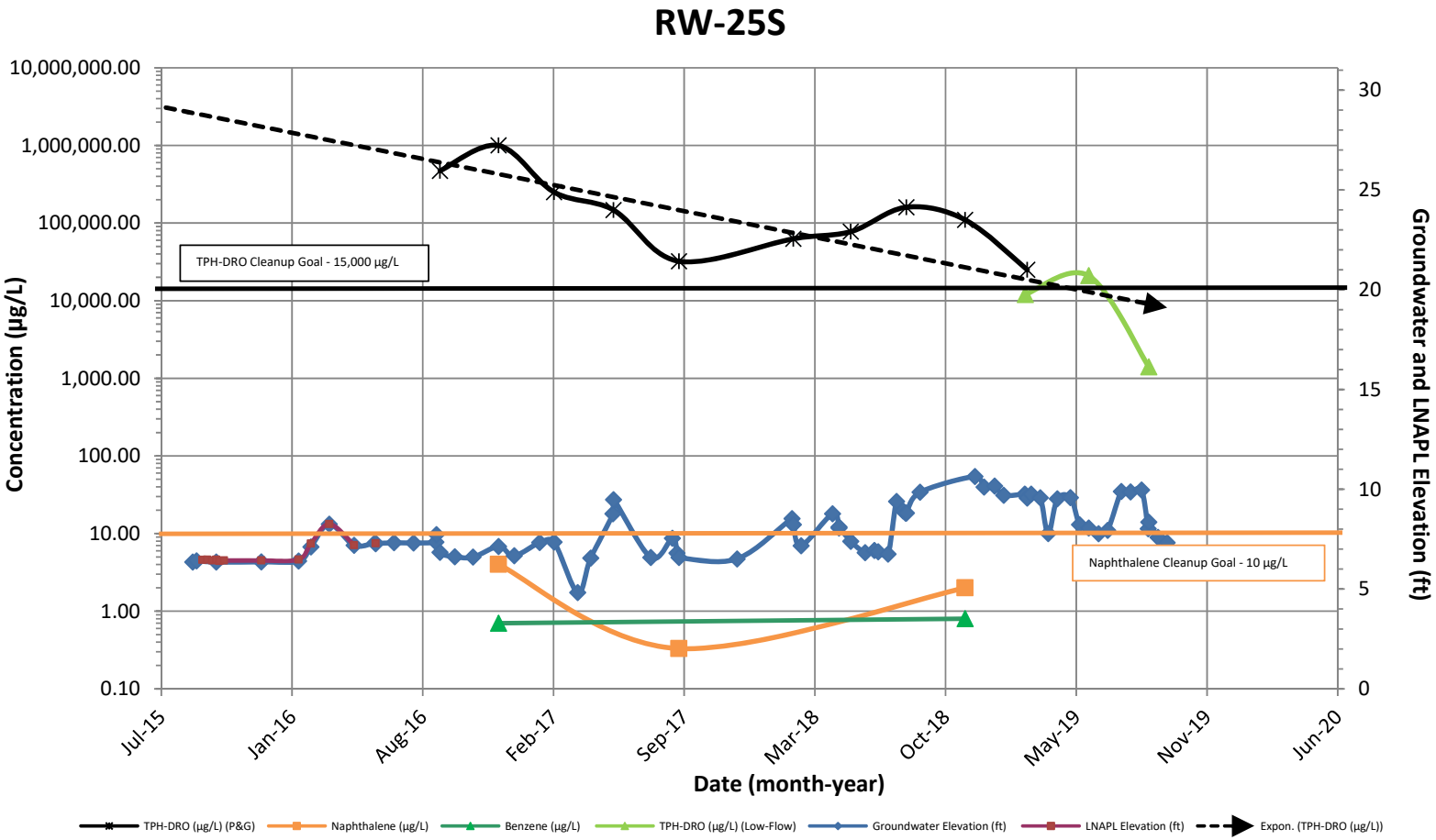
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

CONCENTRATION TREND GRAPHS

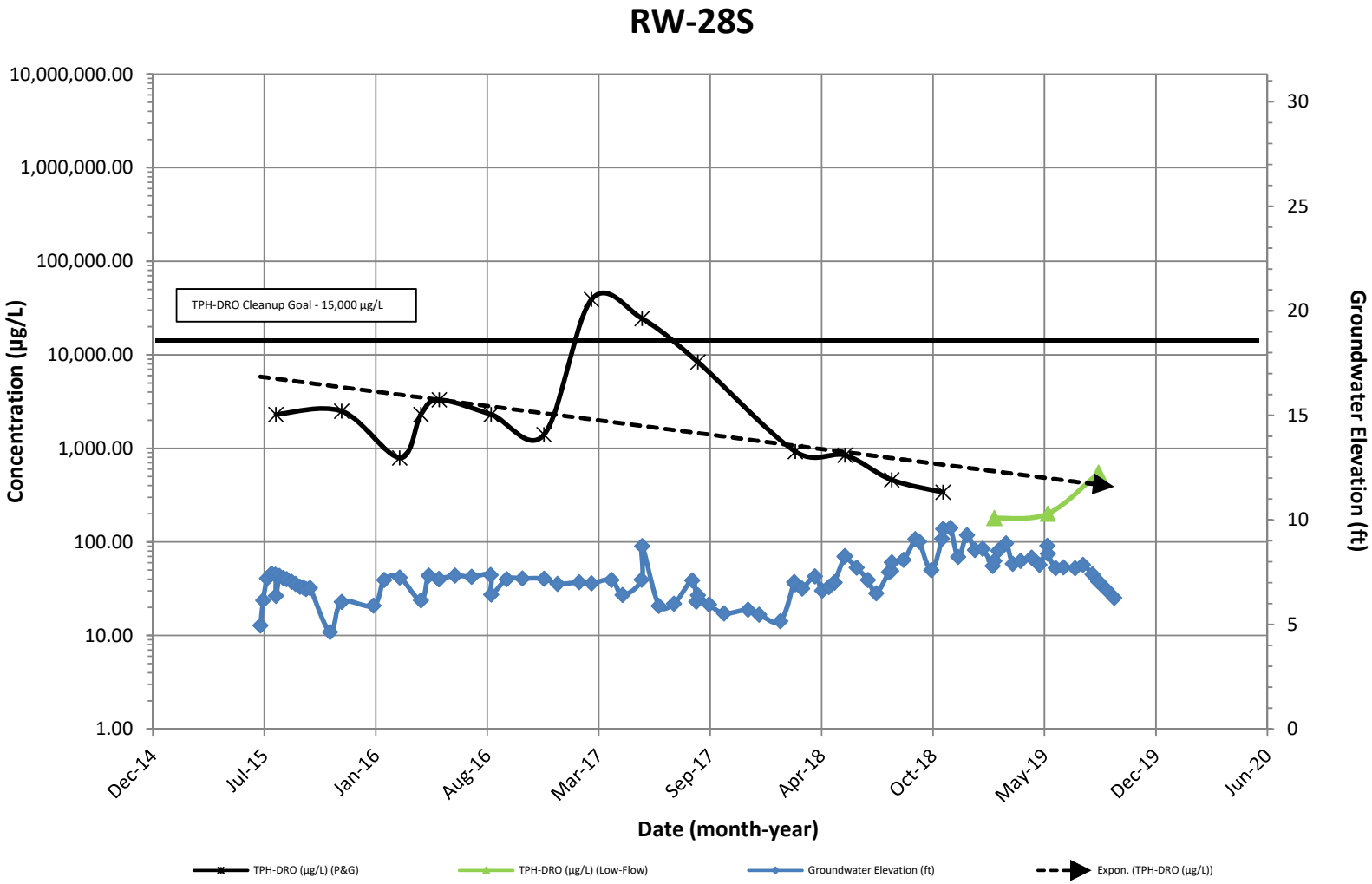
NRG PRGS
1400 North Royal Street
Alexandria, VA



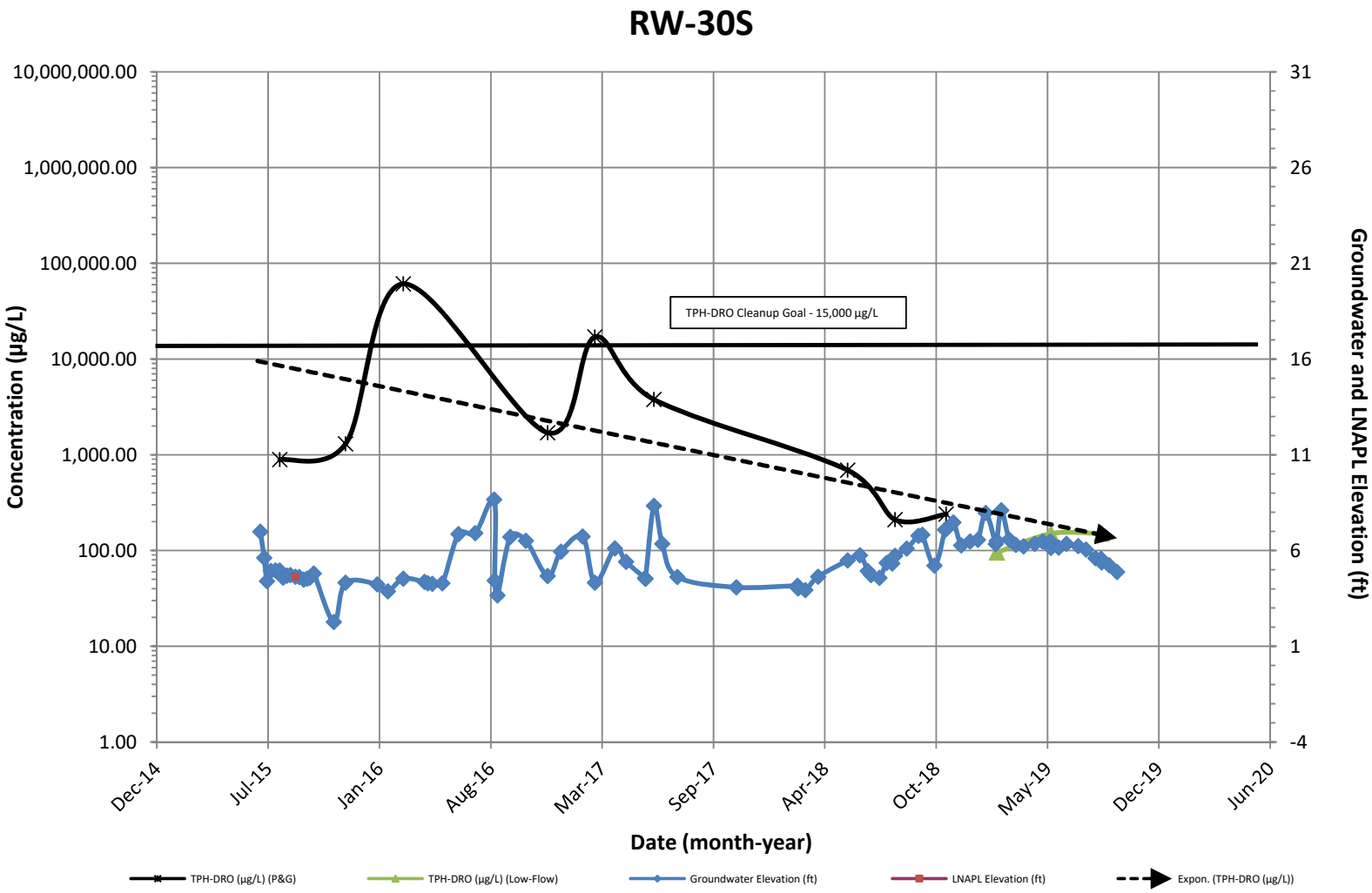
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



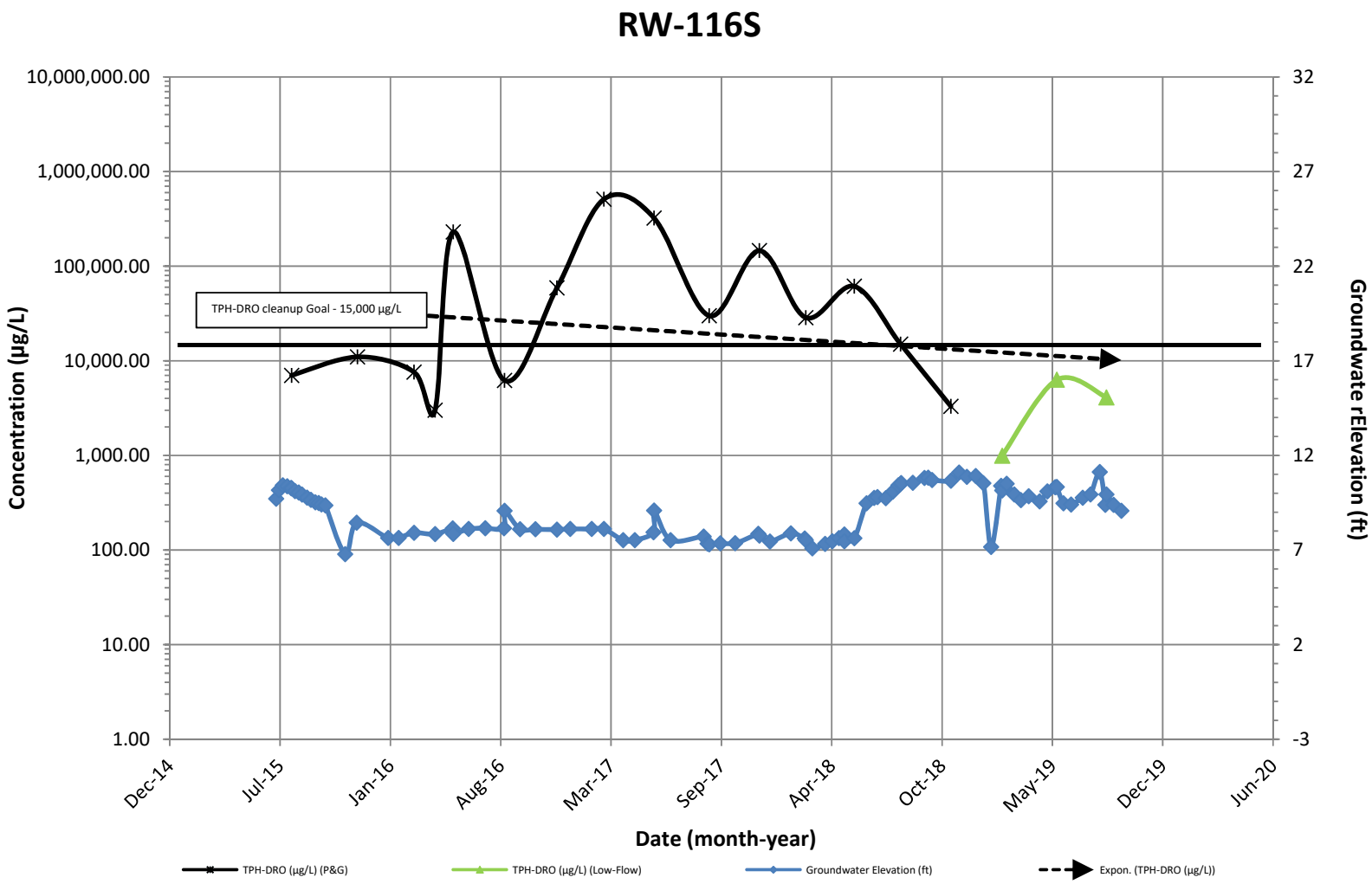
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



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).

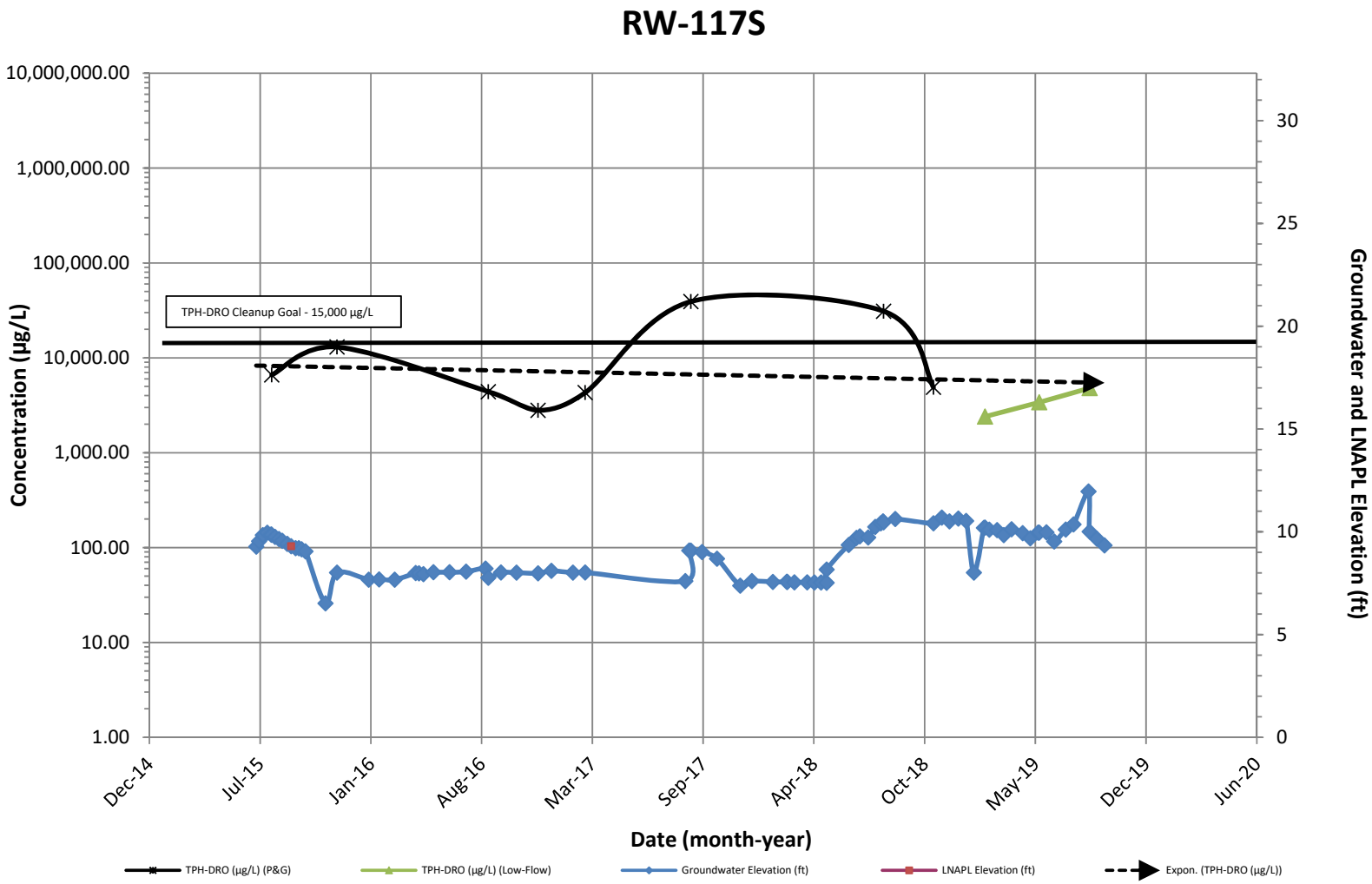


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

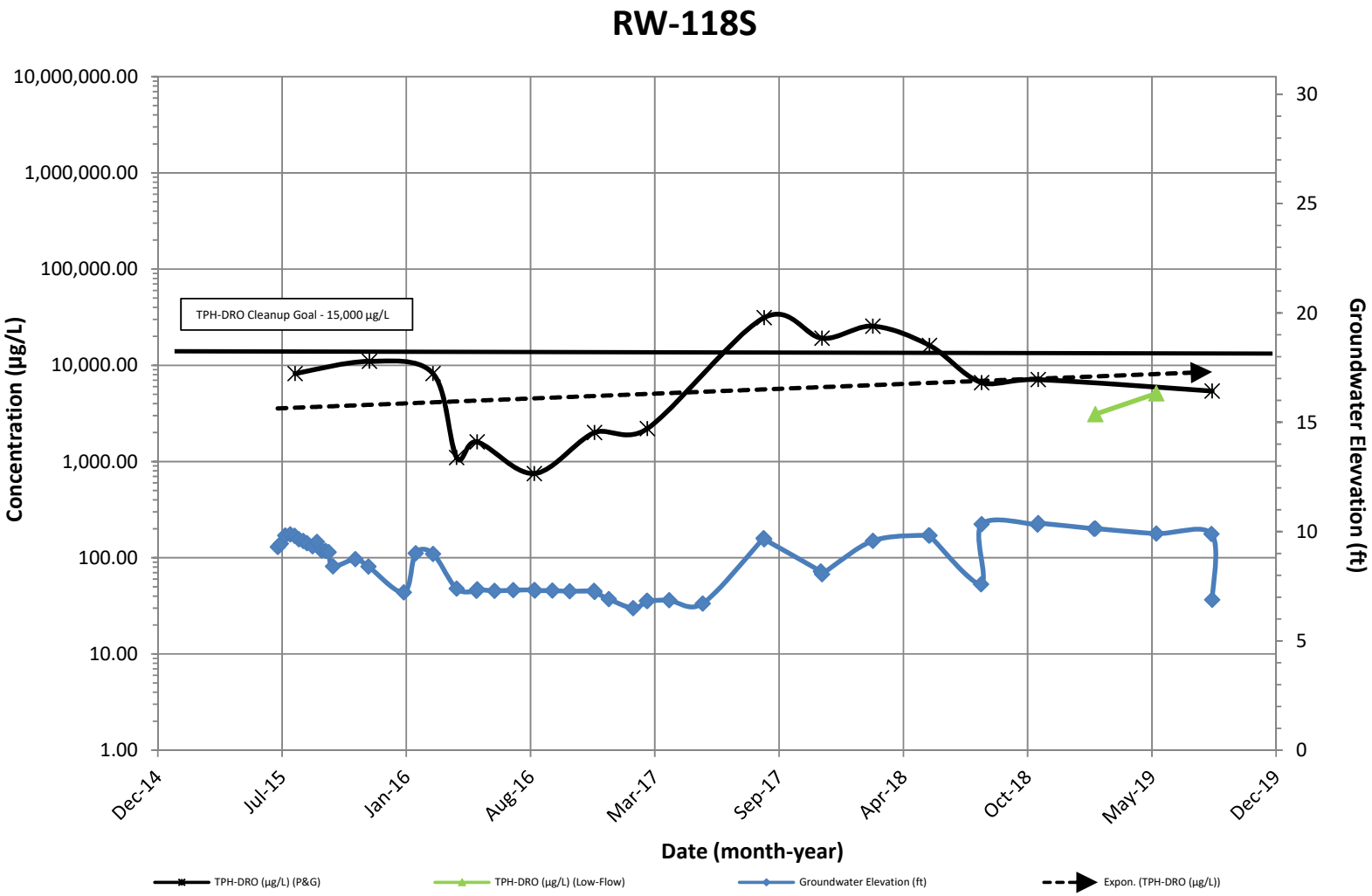


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

NRG PRGS
1400 North Royal Street
Alexandria, VA

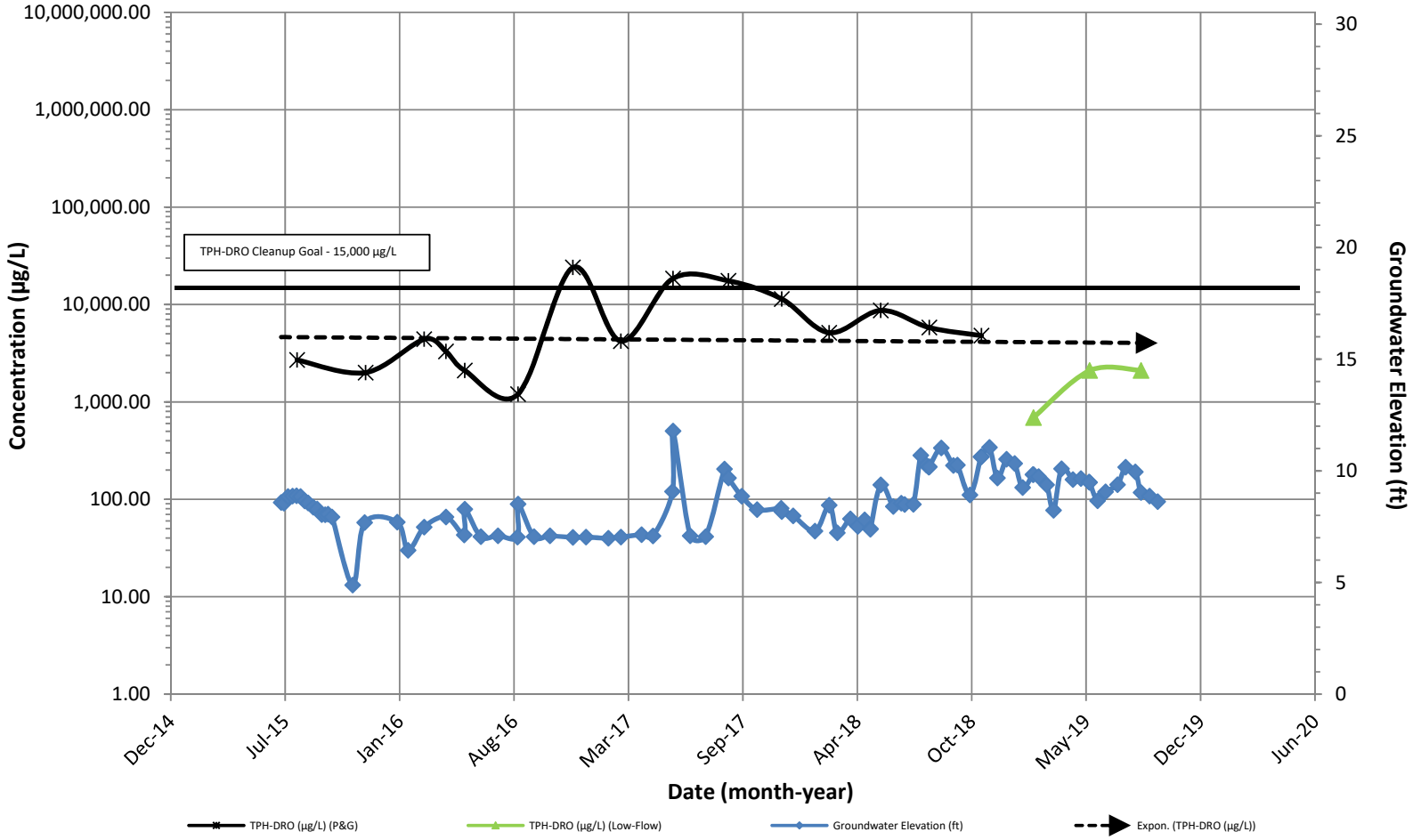


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).



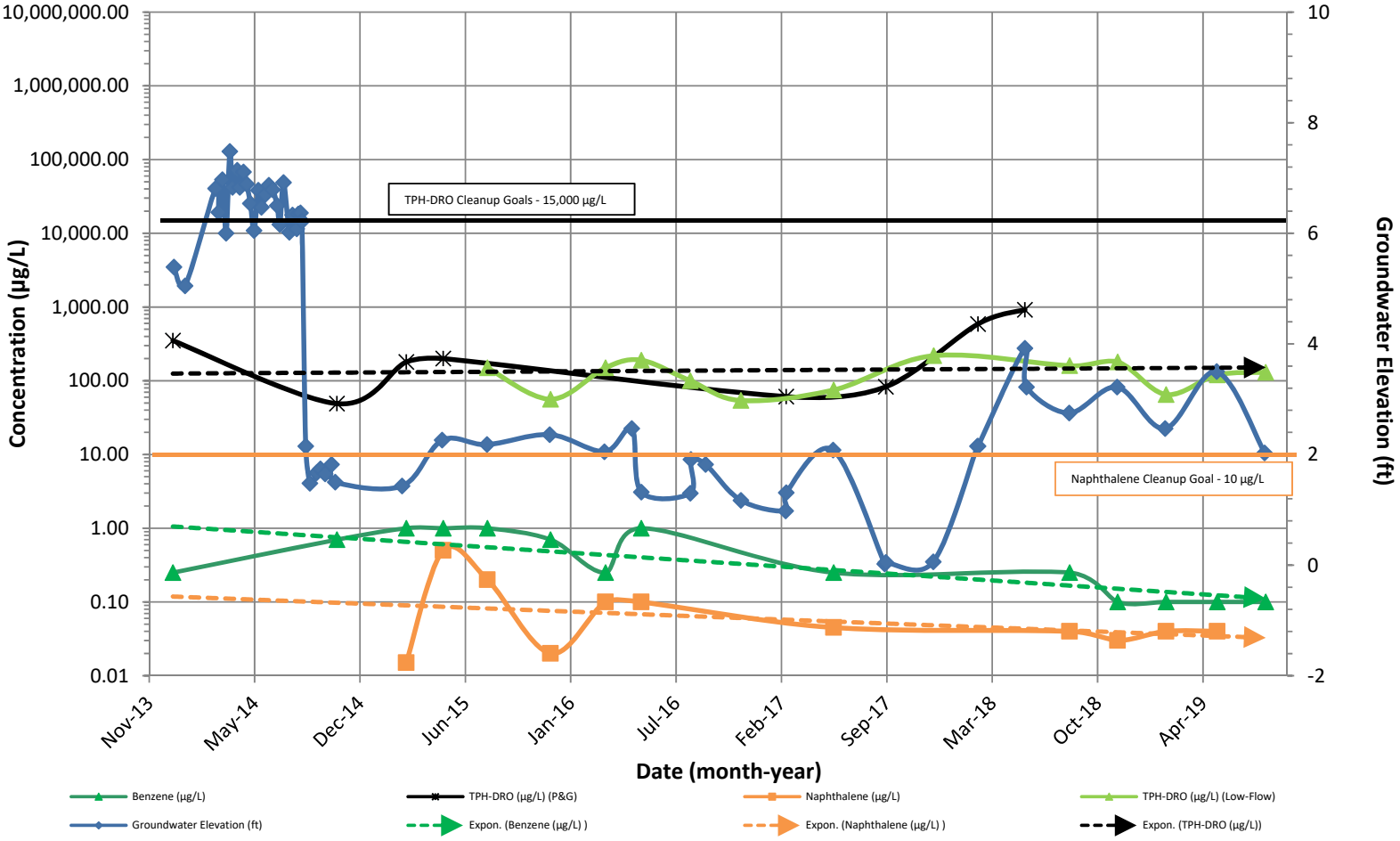
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

RW-119S



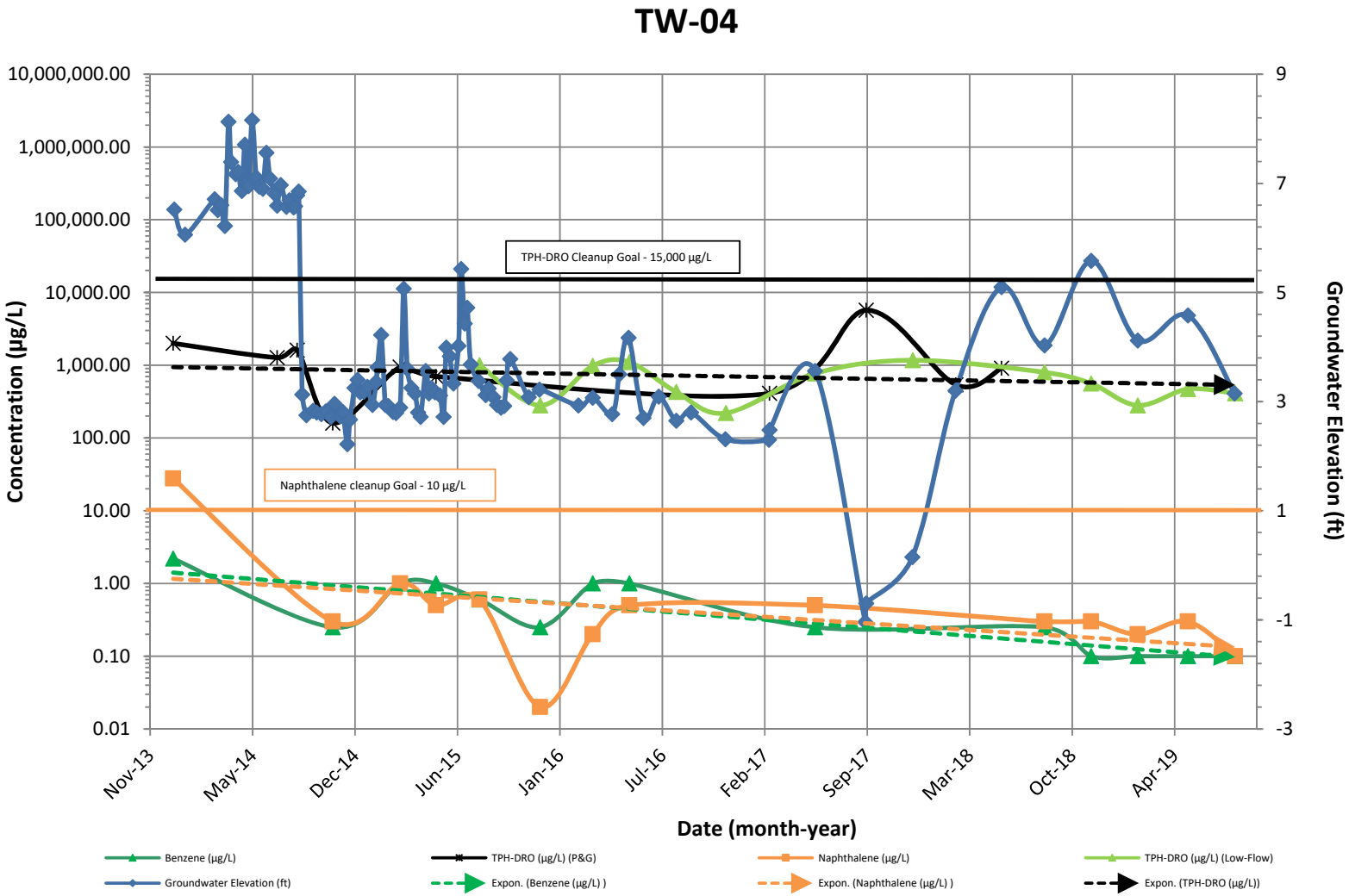
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

TW-03



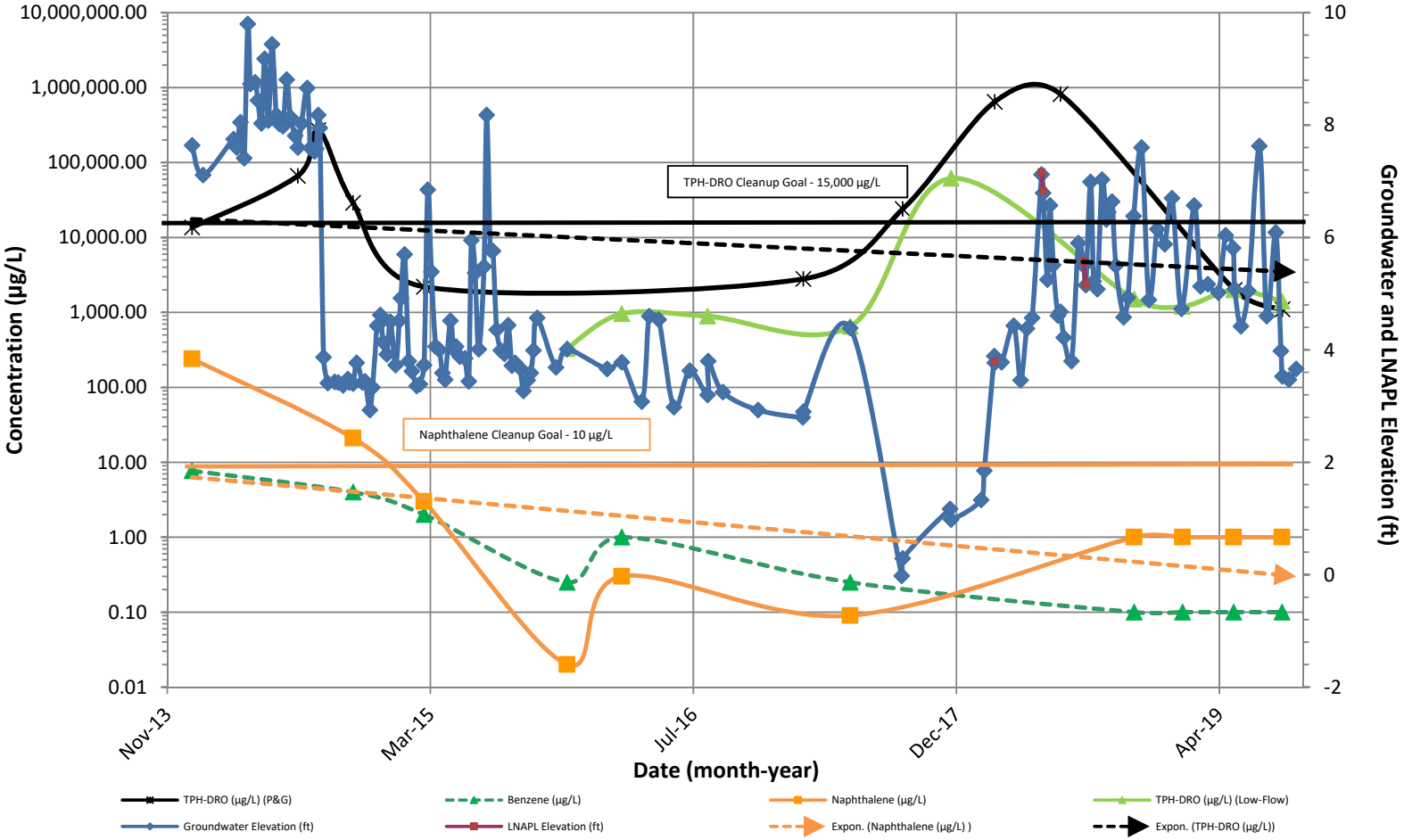
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

NRG PRGS
1400 North Royal Street
Alexandria, VA

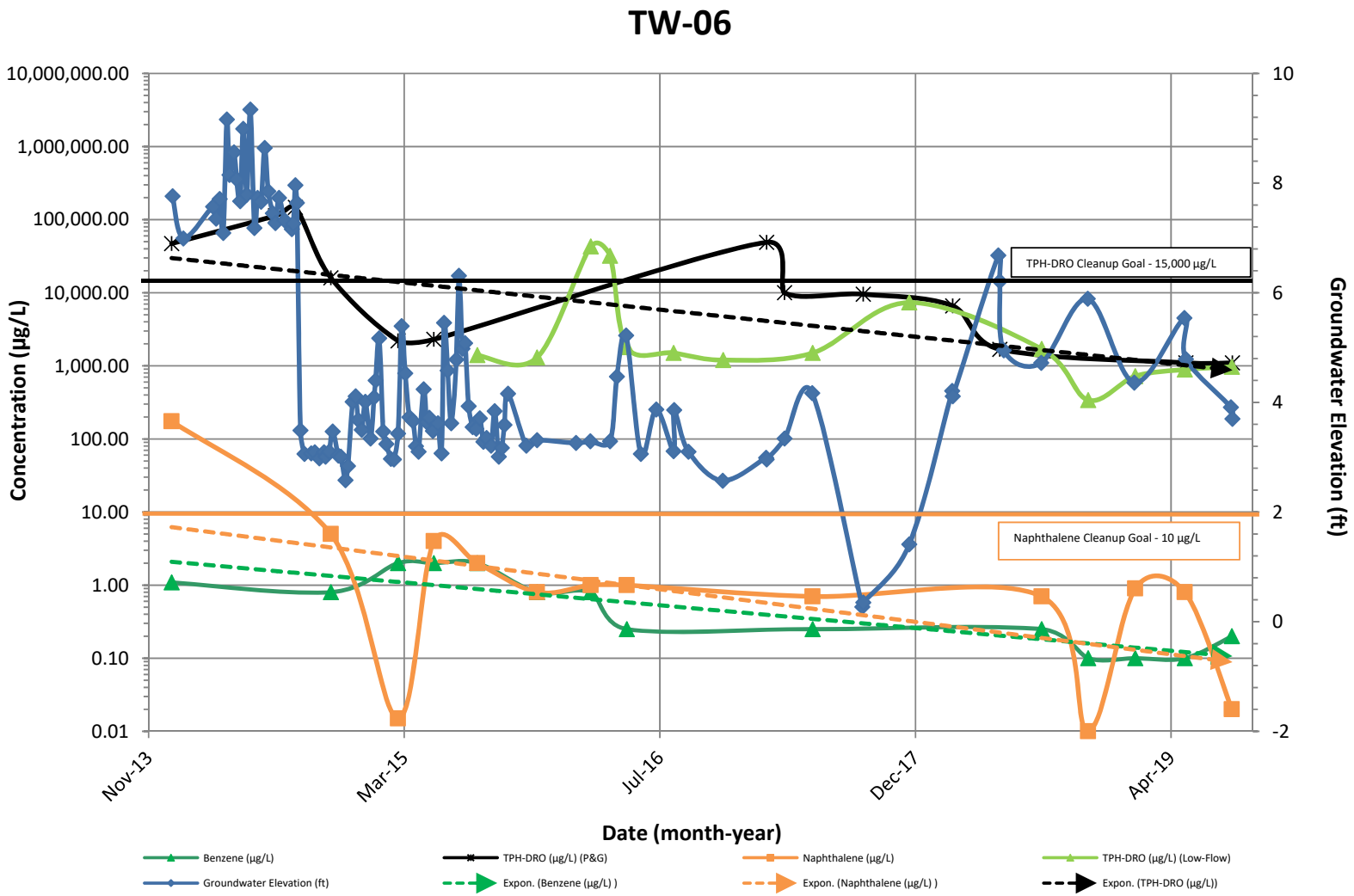


Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

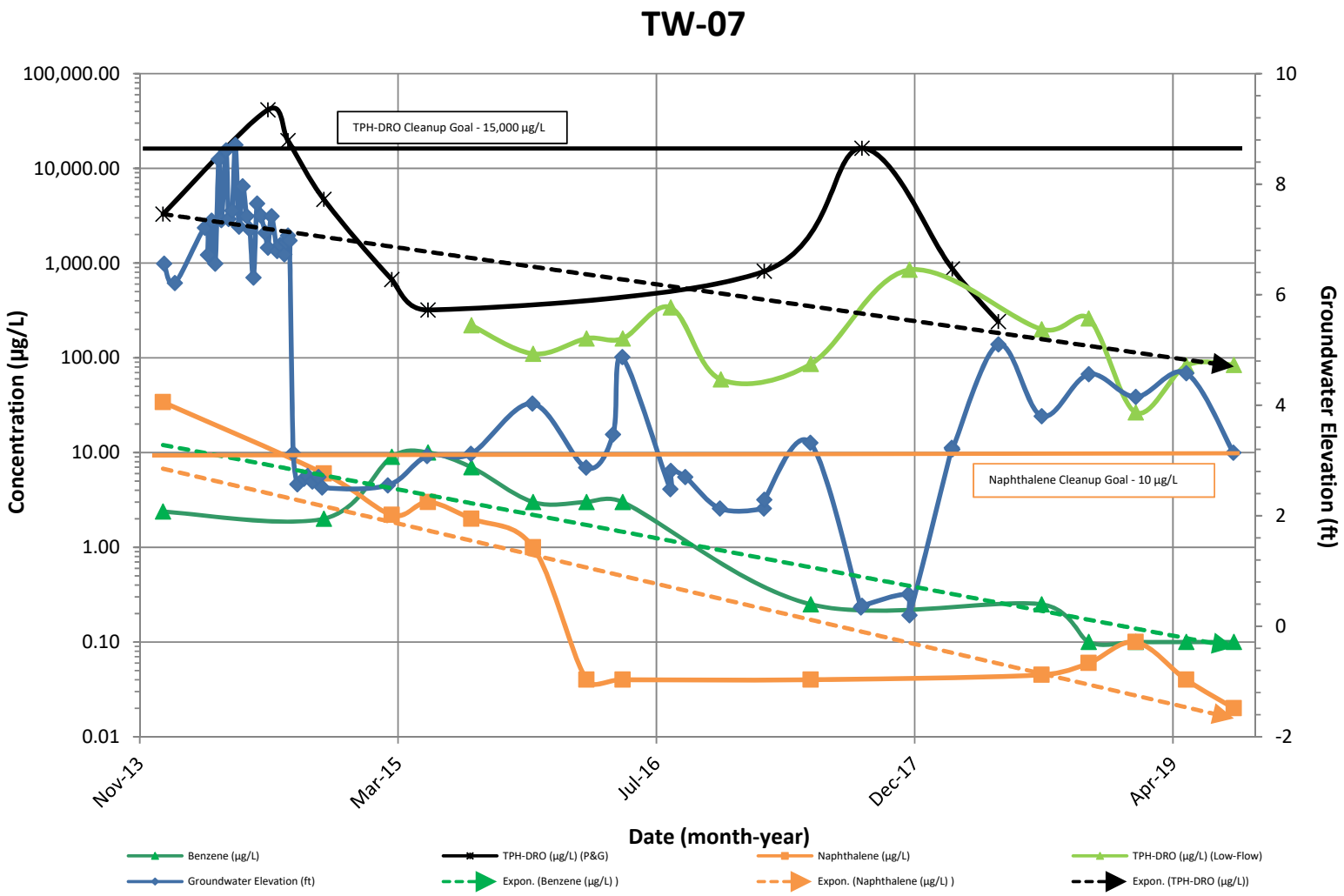
TW-05



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).

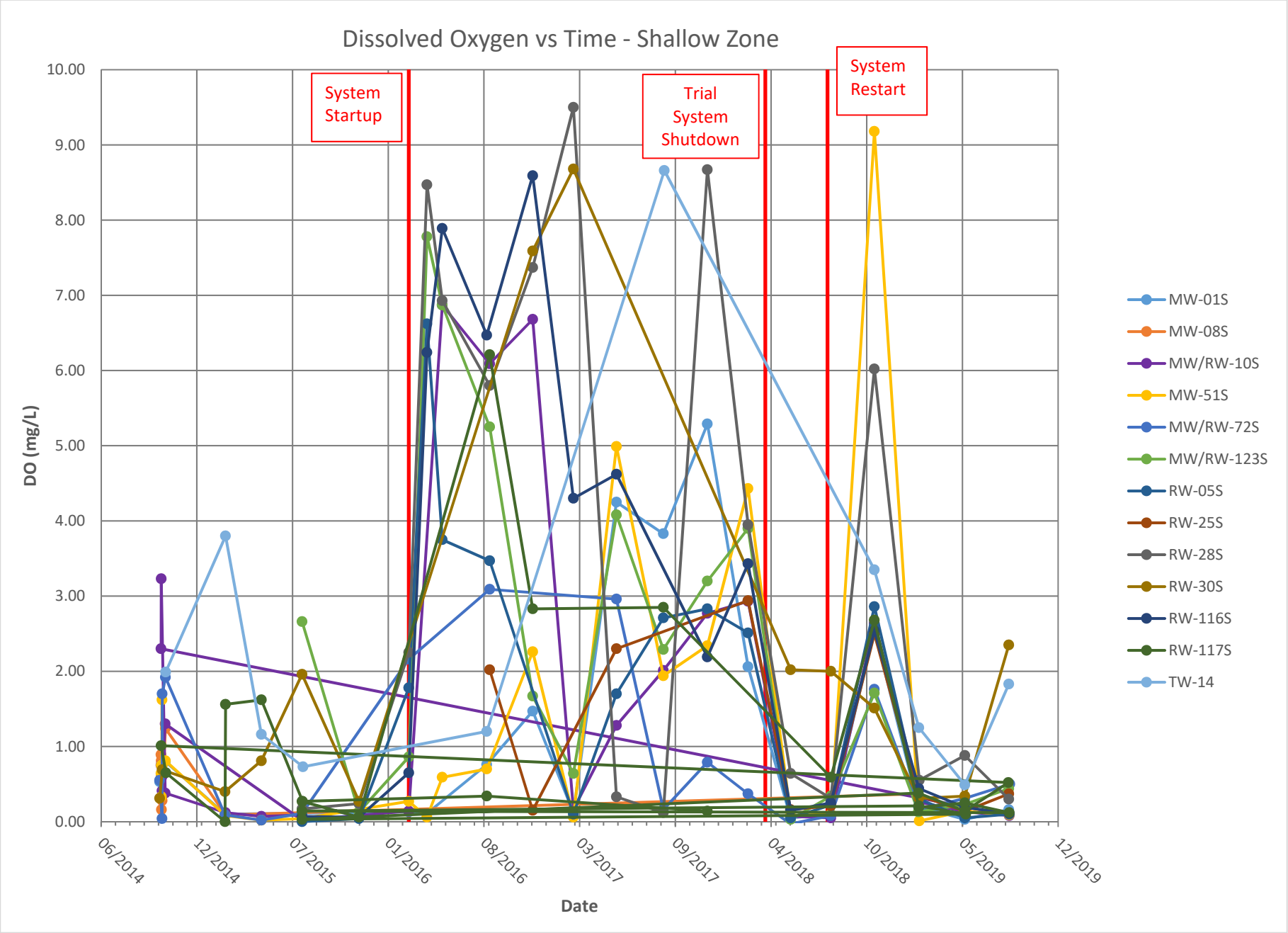


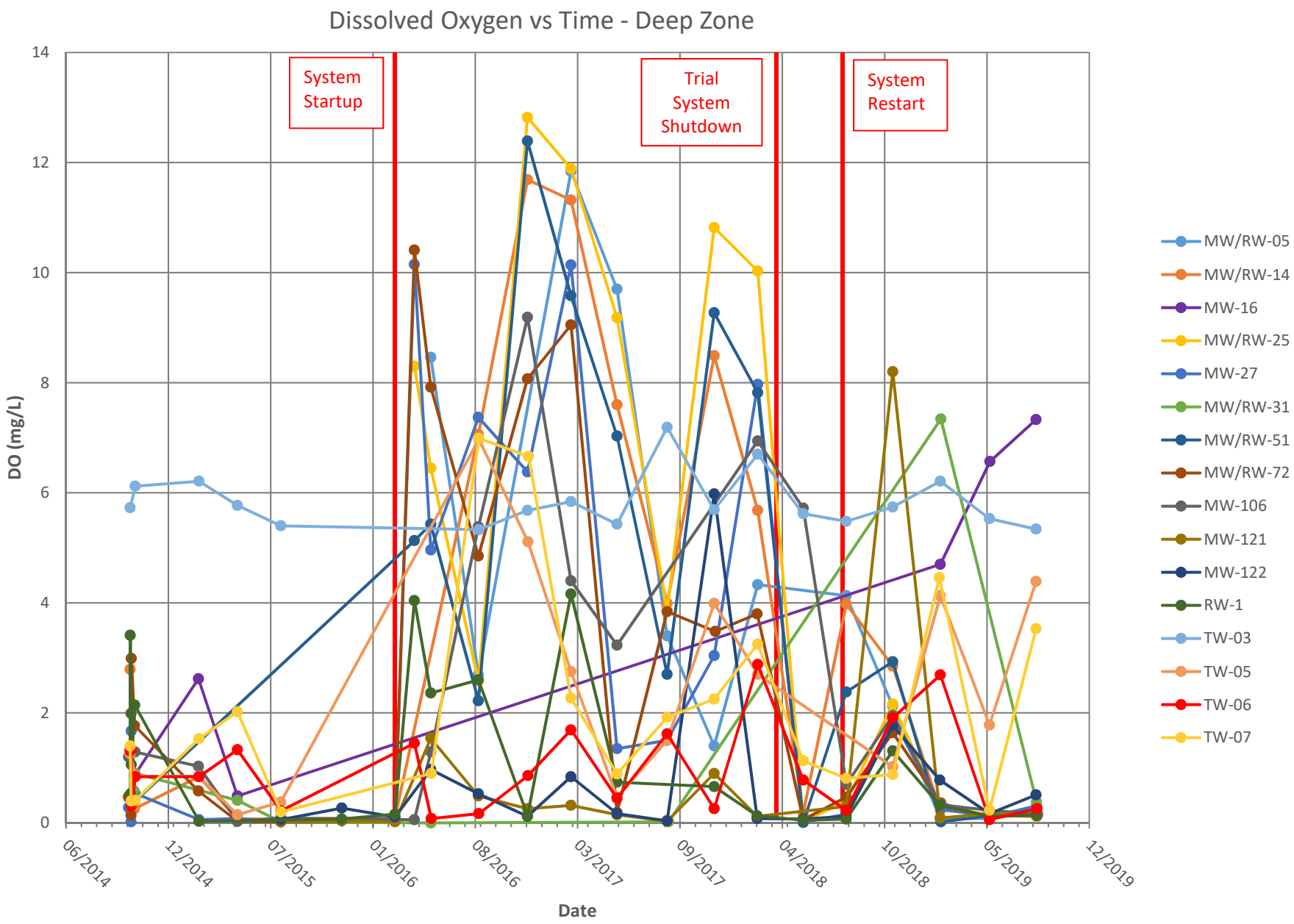
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

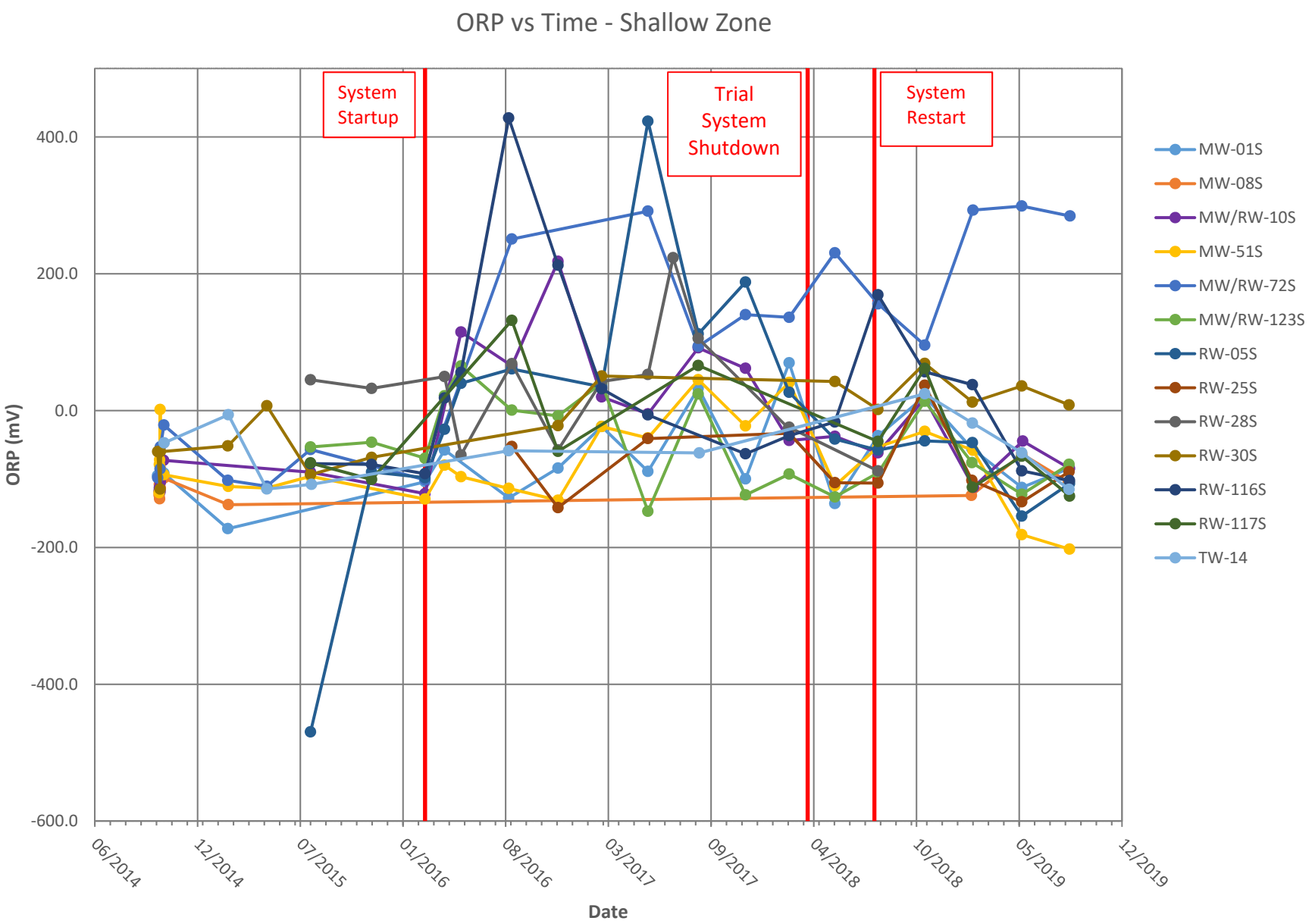


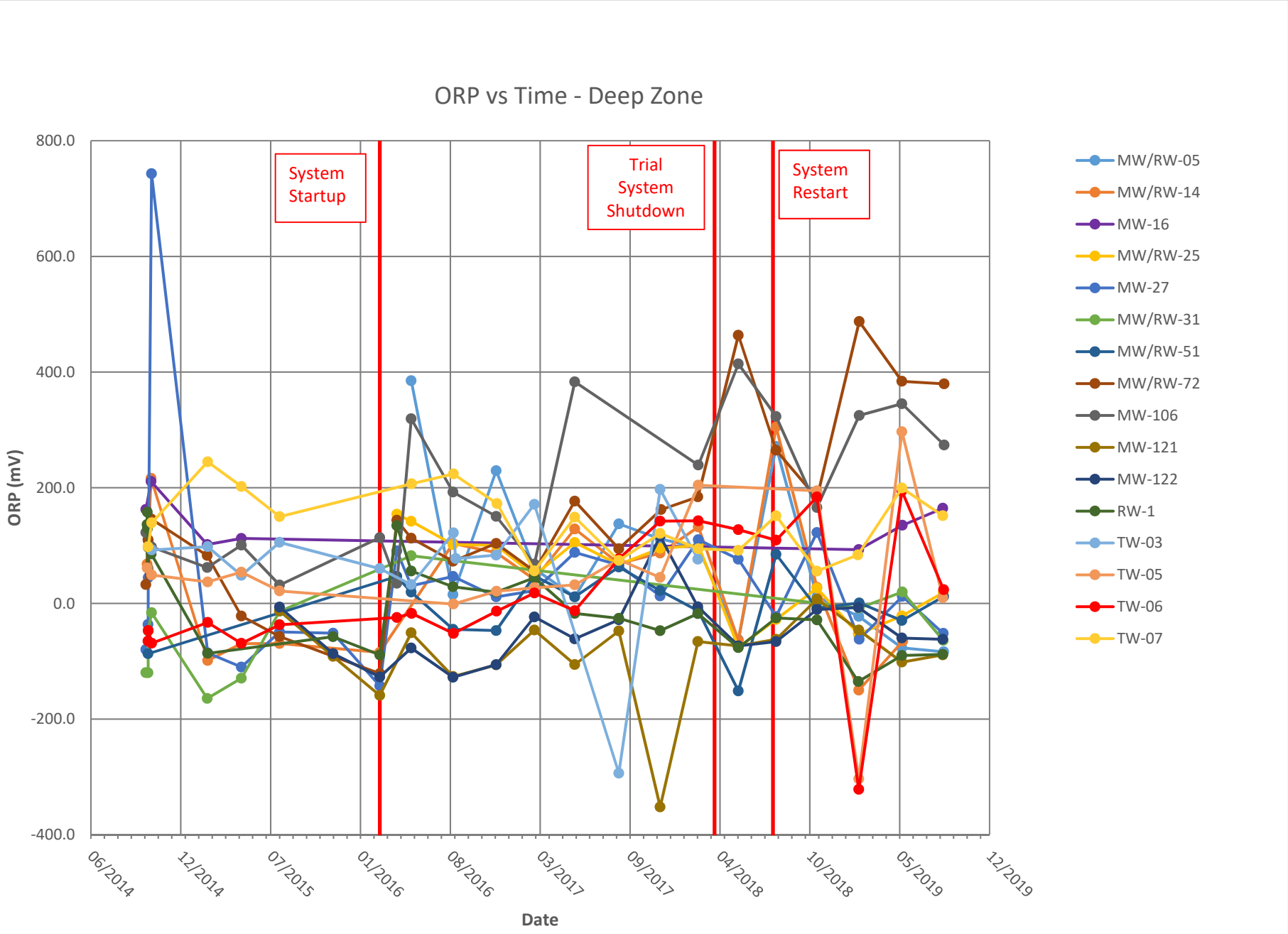
Note: 1. Non-detect results are plotted at half the method detection limit (i.e. 22.5 µg/L is plotted for a TPH-DRO result of <45 µg/L).

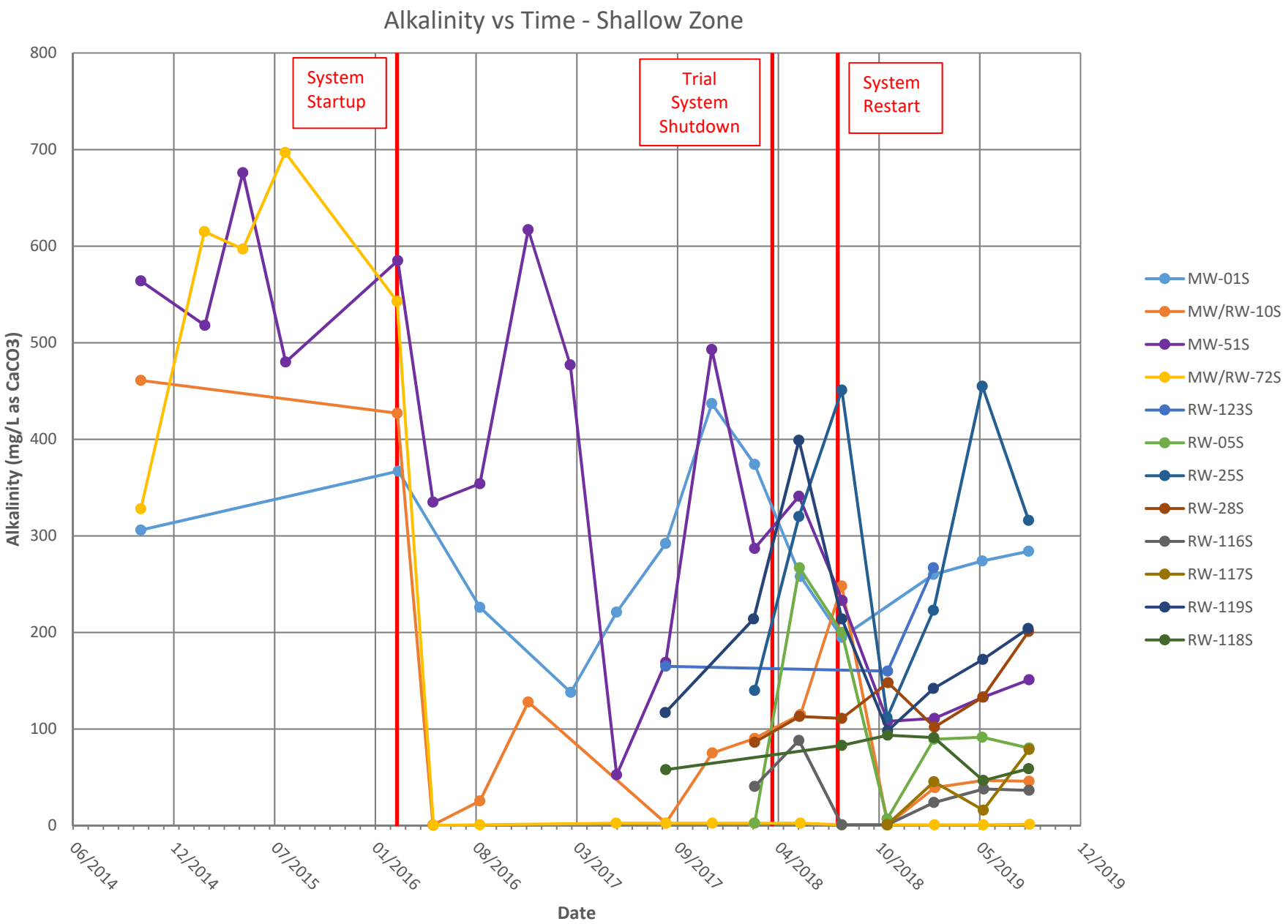
Attachment B – Monitored Natural Attenuation Trend Graphs

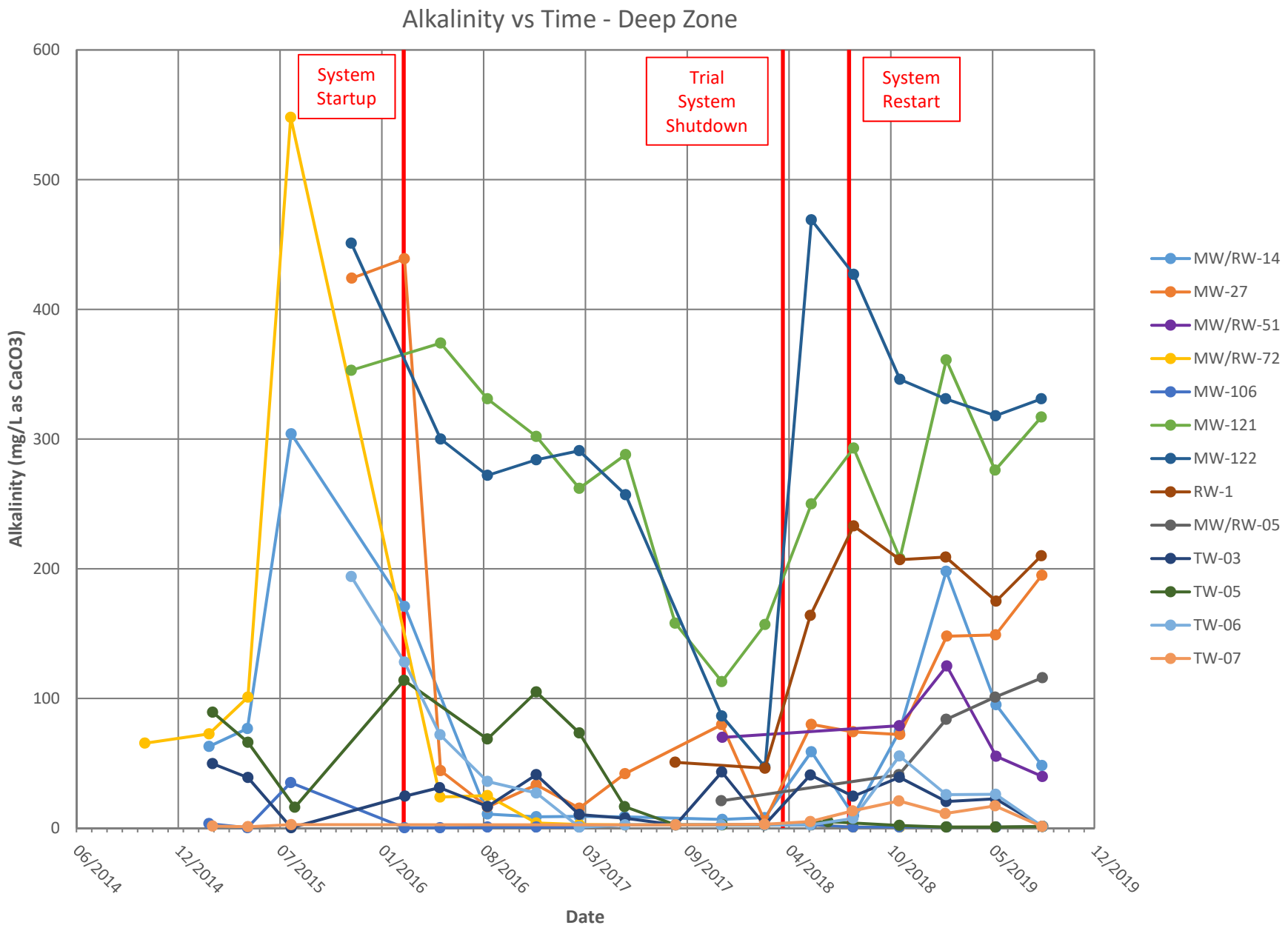

Dissolved Oxygen vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
DO (mg/L)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW-08S
MW/RW-10S
MW-51S
MW/RW-72S
MW/RW-123S
RW-05S
RW-25S
RW-28S
RW-30S
RW-116S
RW-117S
TW-14

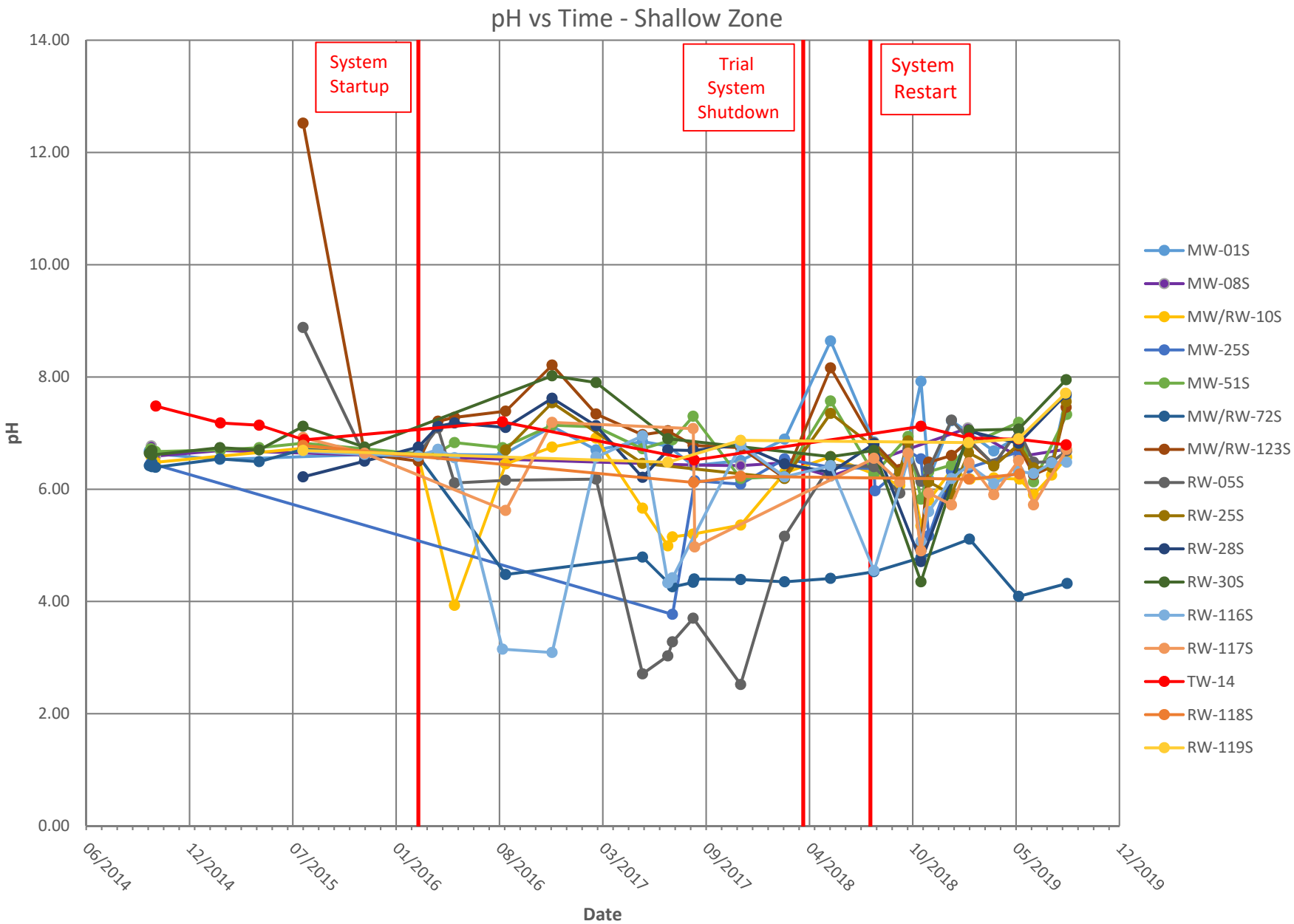

Dissolved Oxygen vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
DO (mg/L)
Date
0
2
4
6
8
10
12
14
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
MW/RW-05
MW/RW-14
MW-16
MW/RW-25
MW-27
MW/RW-31
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
TW-03
TW-05
TW-06
TW-07

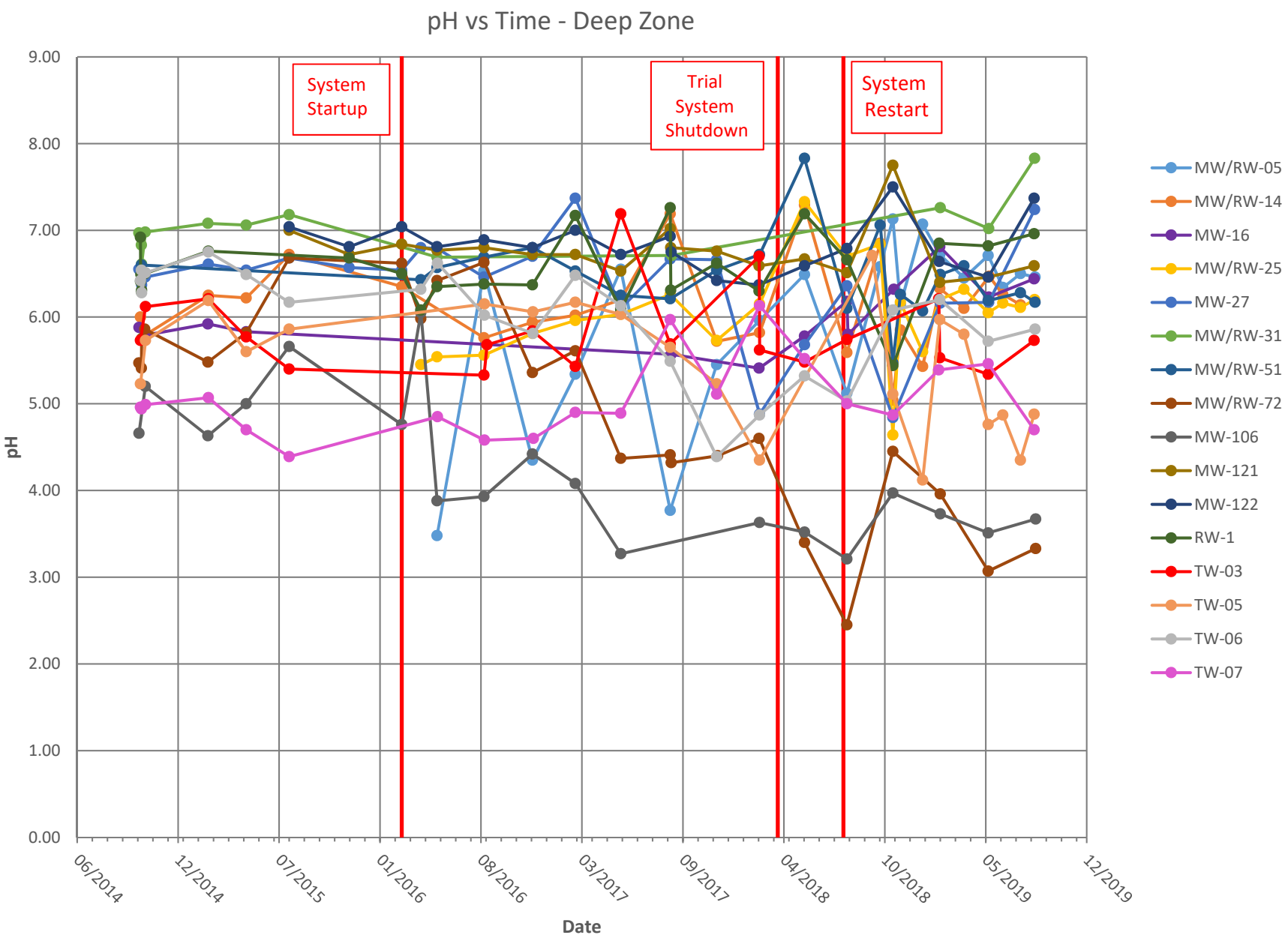

ORP vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
400.0
200.0
0.0
-200.0
-400.0
-600.0
ORP (mV)
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW-08S
MW/RW-10S
MW-51S
MW/RW-72S
MW/RW-123S
RW-05S
RW-25S
RW-28S
RW-30S
RW-116S
RW-117S
TW-14

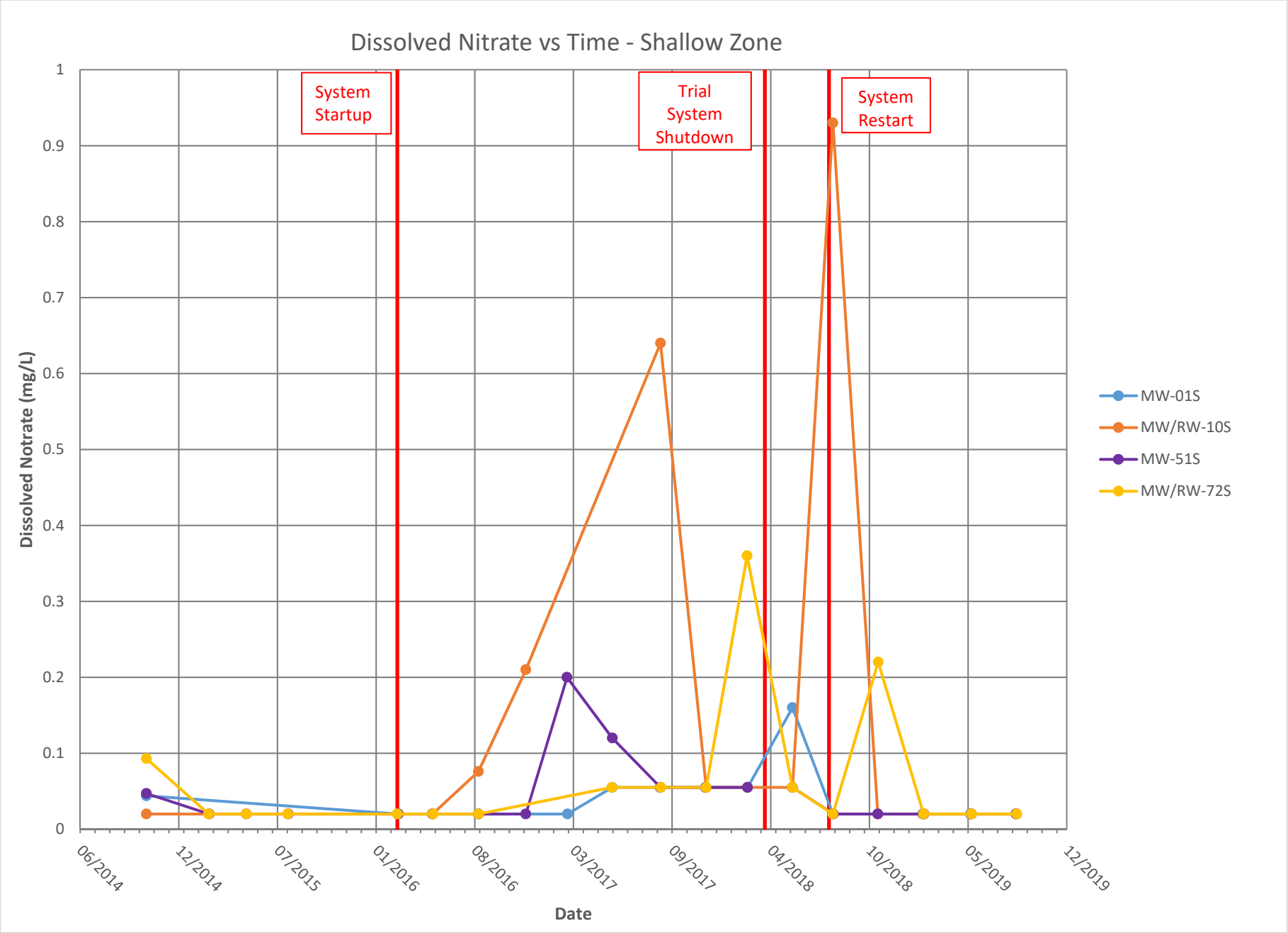

ORP vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
800.0
600.0
400.0
200.0
0.0
-200.0
-400.0
ORP (mV)
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW/RW-05
MW/RW-14
MW-16
MW/RW-25
MW-27
MW/RW-31
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
TW-03
TW-05
TW-06
TW-07

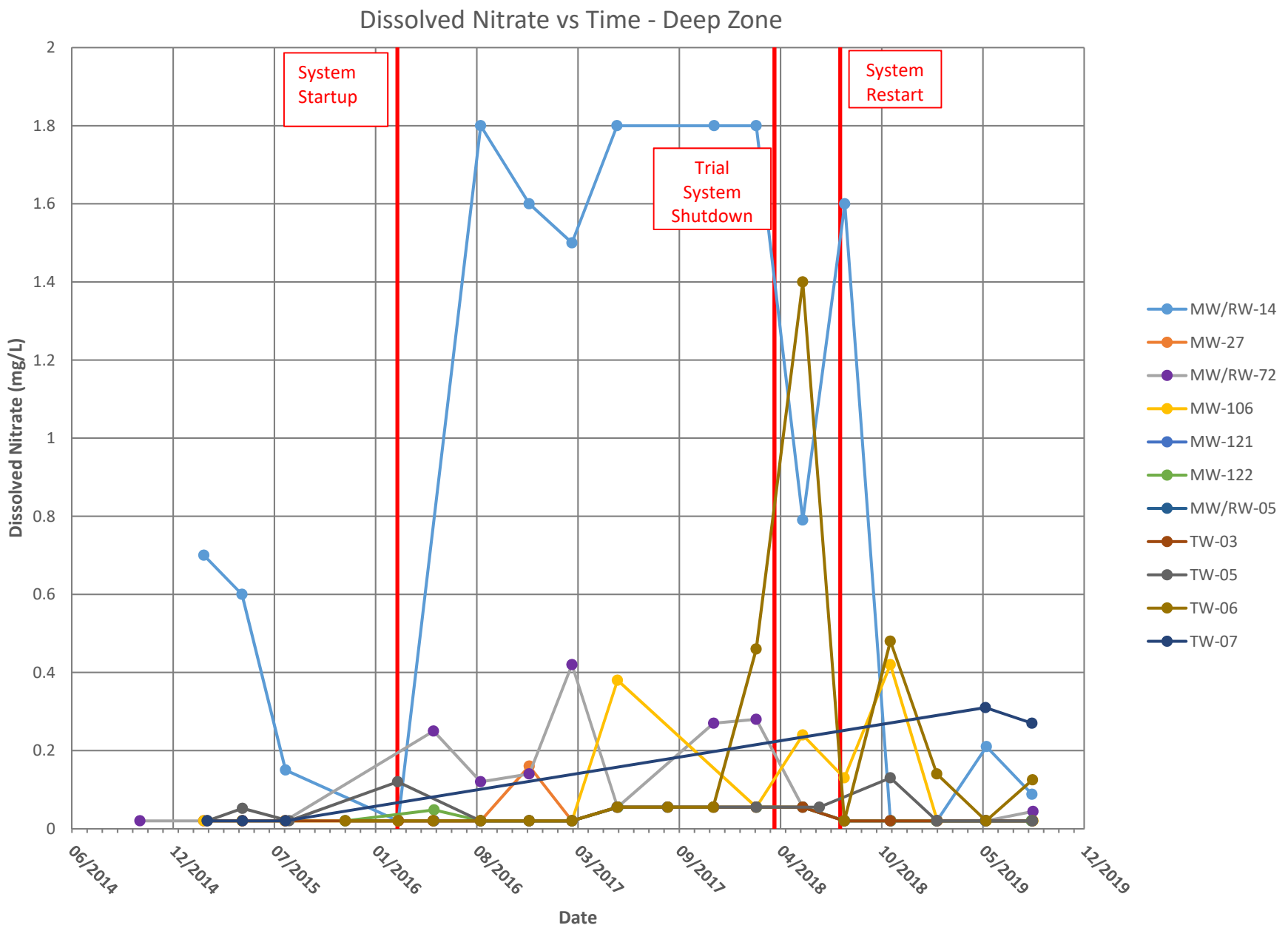

Alkalinity vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
Alkalinity (mg/L as CaCO3)
800
700
600
500
400
300
200
100
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S
RW-123S
RW-05S
RW-25S
RW-28S
RW-116S
RW-117S
RW-119S
RW-118S

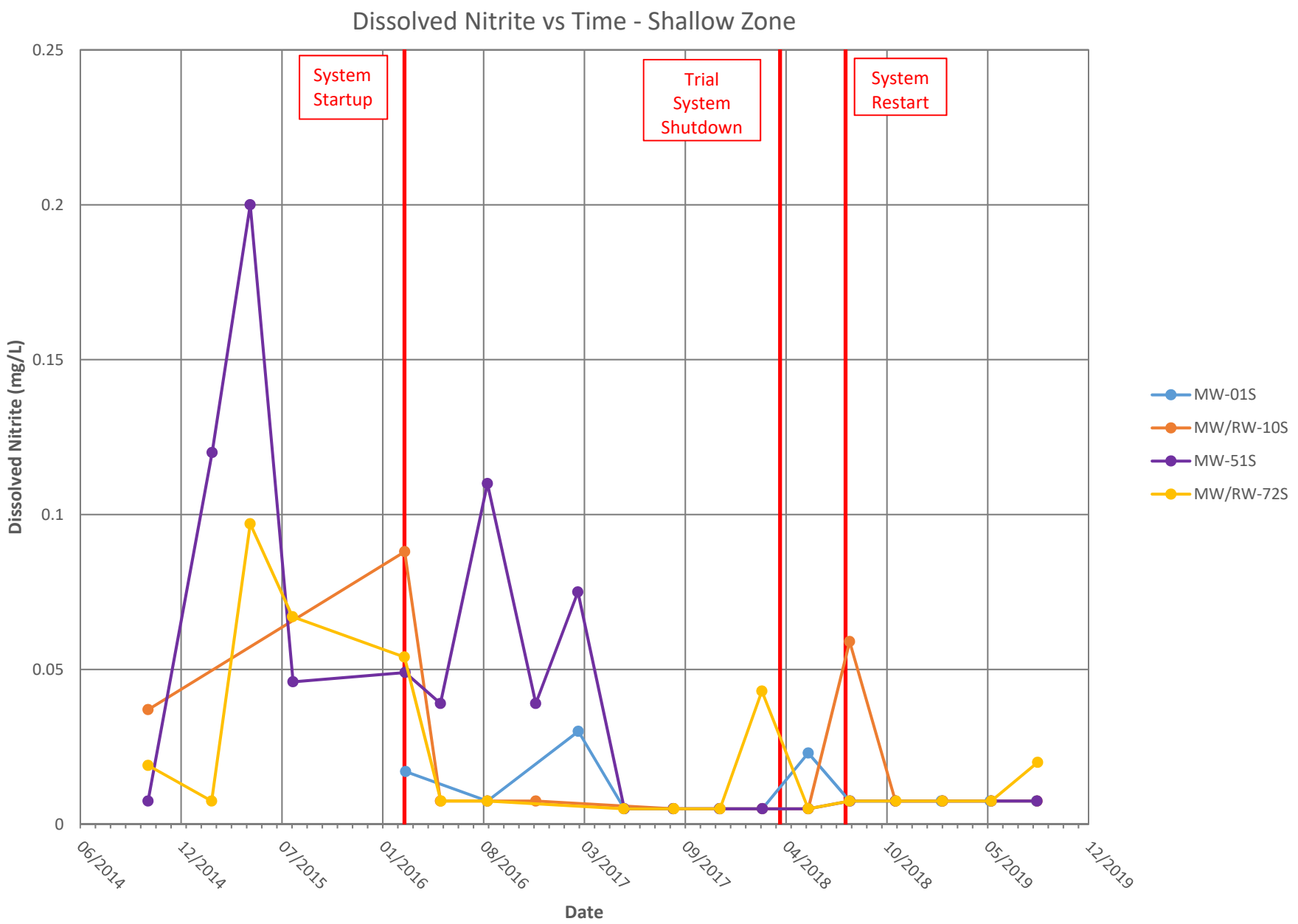

Alkalinity vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
Alkalinity (mg/L as CaCO3)
600
500
400
300
200
100
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW/RW-14
MW-27
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
MW/RW-05
TW-03
TW-05
TW-06
TW-07

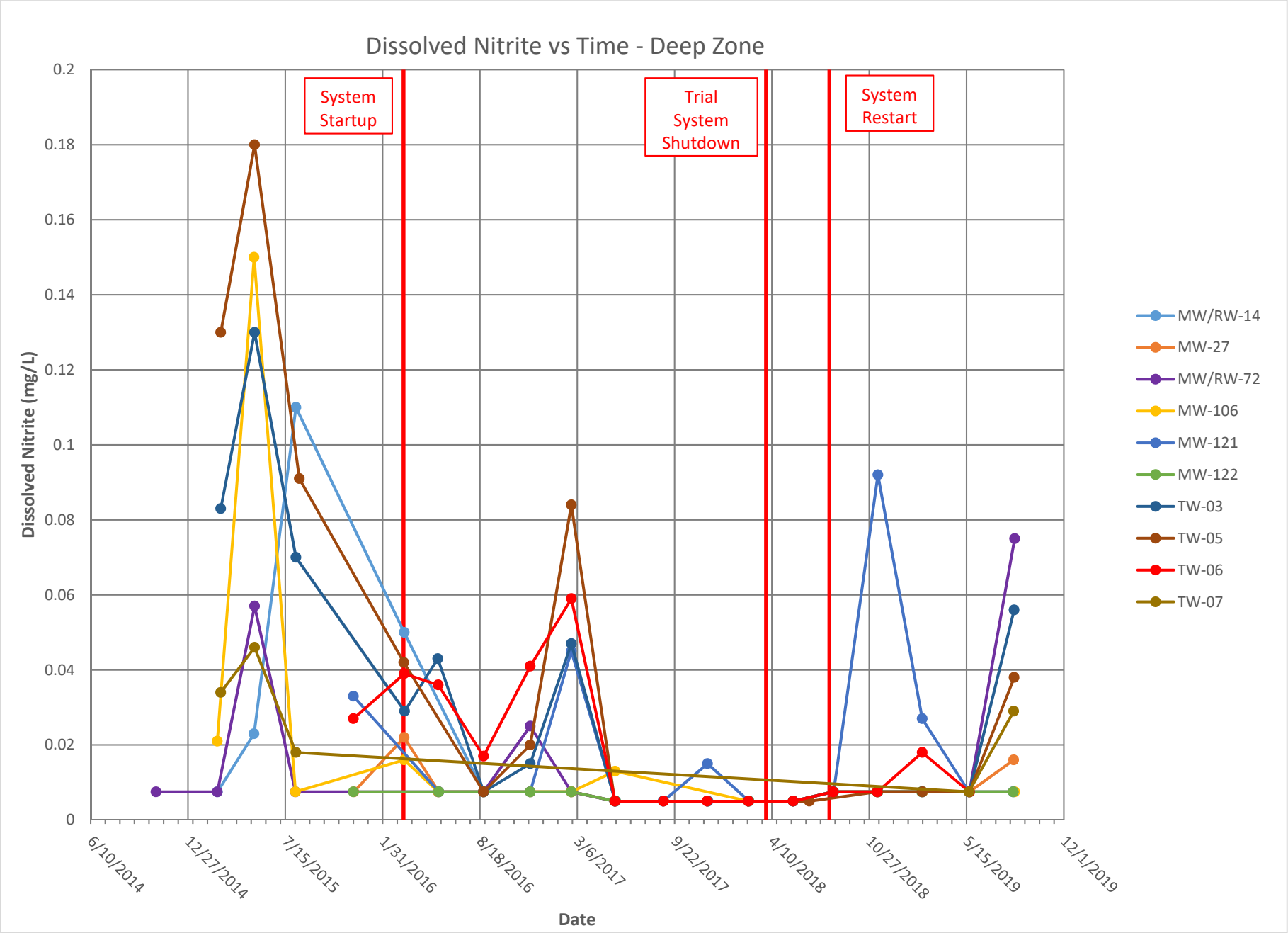

pH vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
pH
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW-08S
MW/RW-10S
MW-25S
MW-51S
MW/RW-72S
MW/RW-123S
RW-05S
RW-25S
RW-28S
RW-30S
RW-116S
RW-117S
TW-14
RW-118S
RW-119S

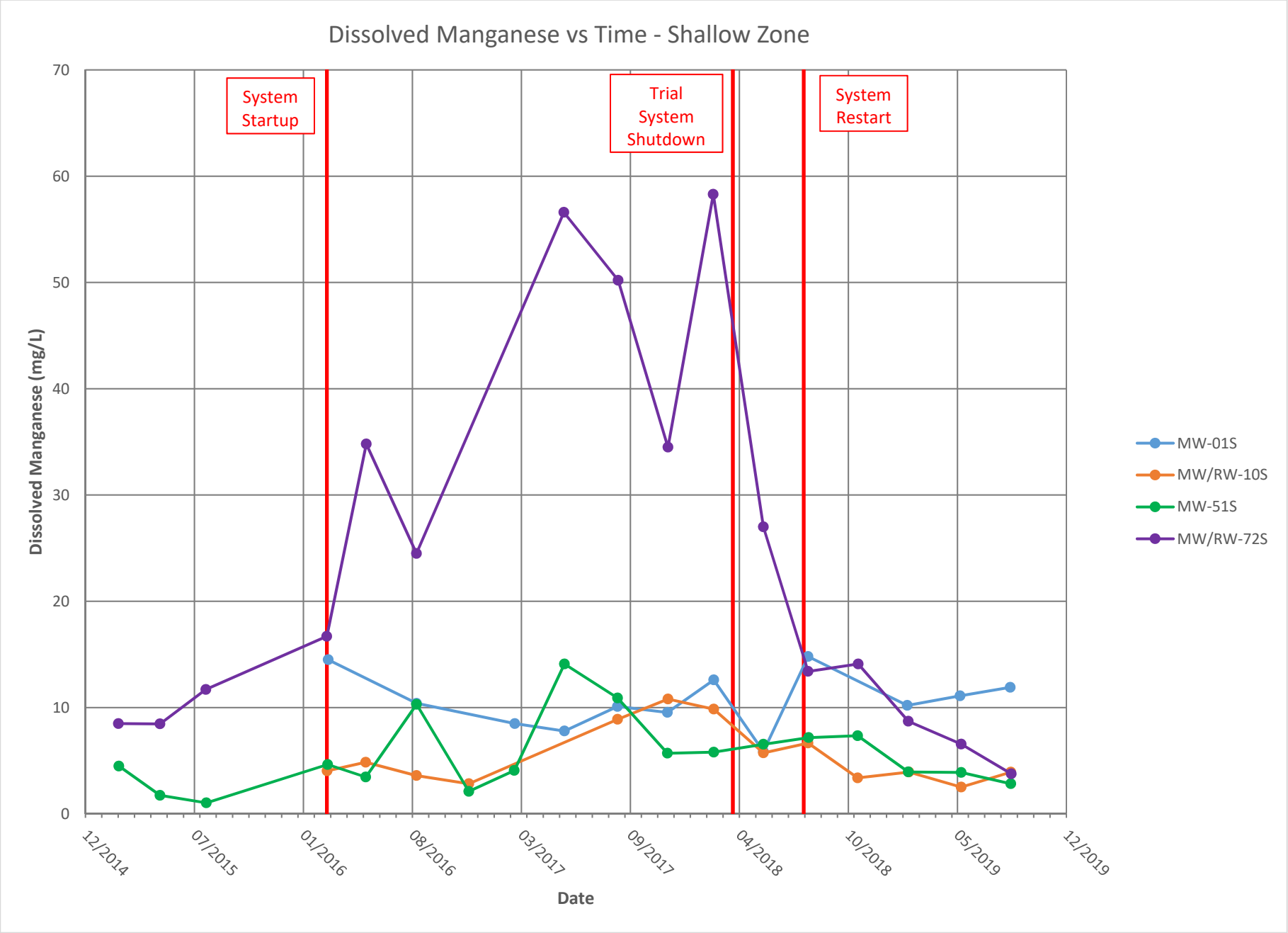

pH vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
pH
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW/RW-05
MW/RW-14
MW-16
MW/RW-25
MW-27
MW/RW-31
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
TW-03
TW-05
TW-06
TW-07

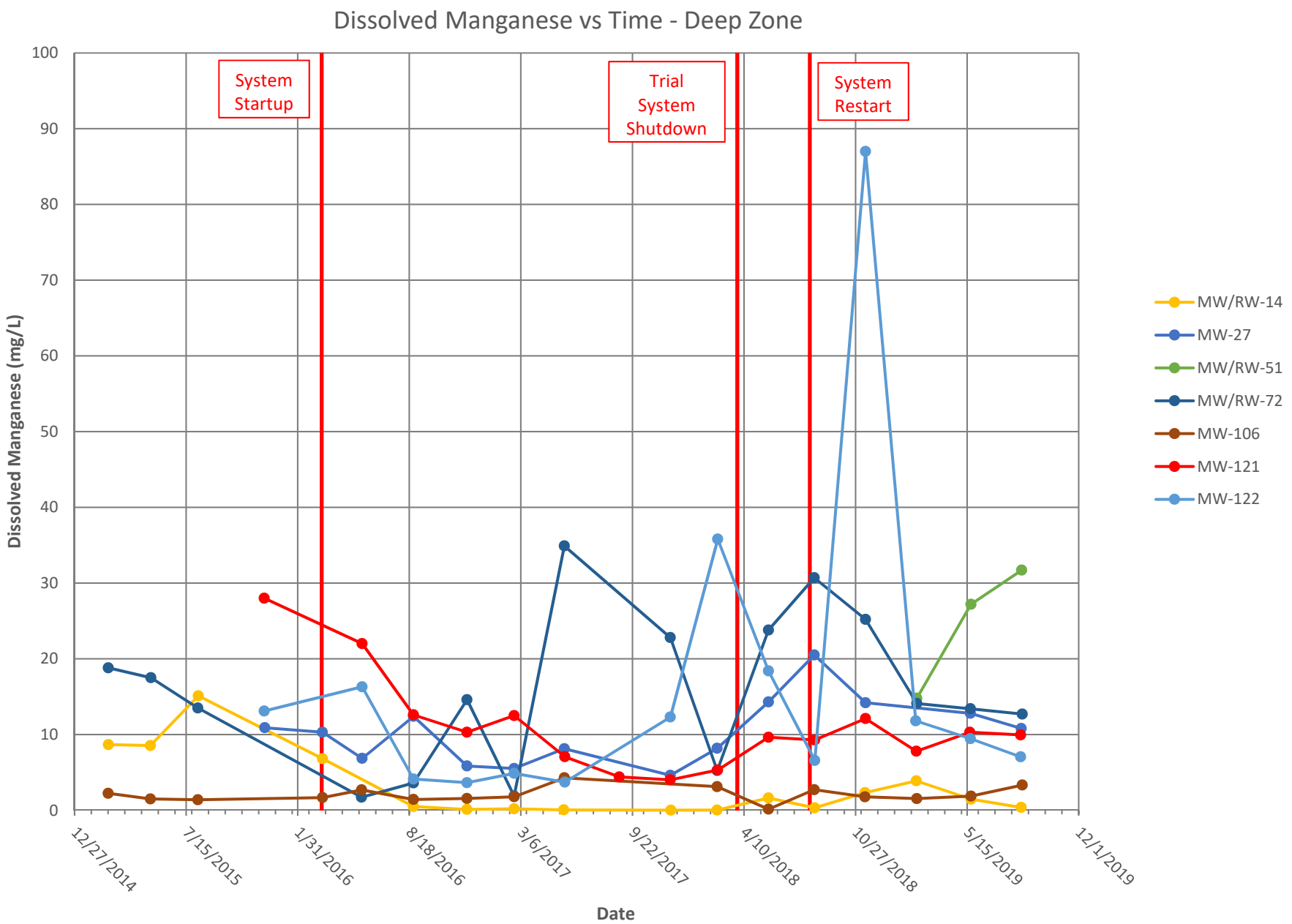

Dissolved Nitrate vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Notrate (mg/L)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

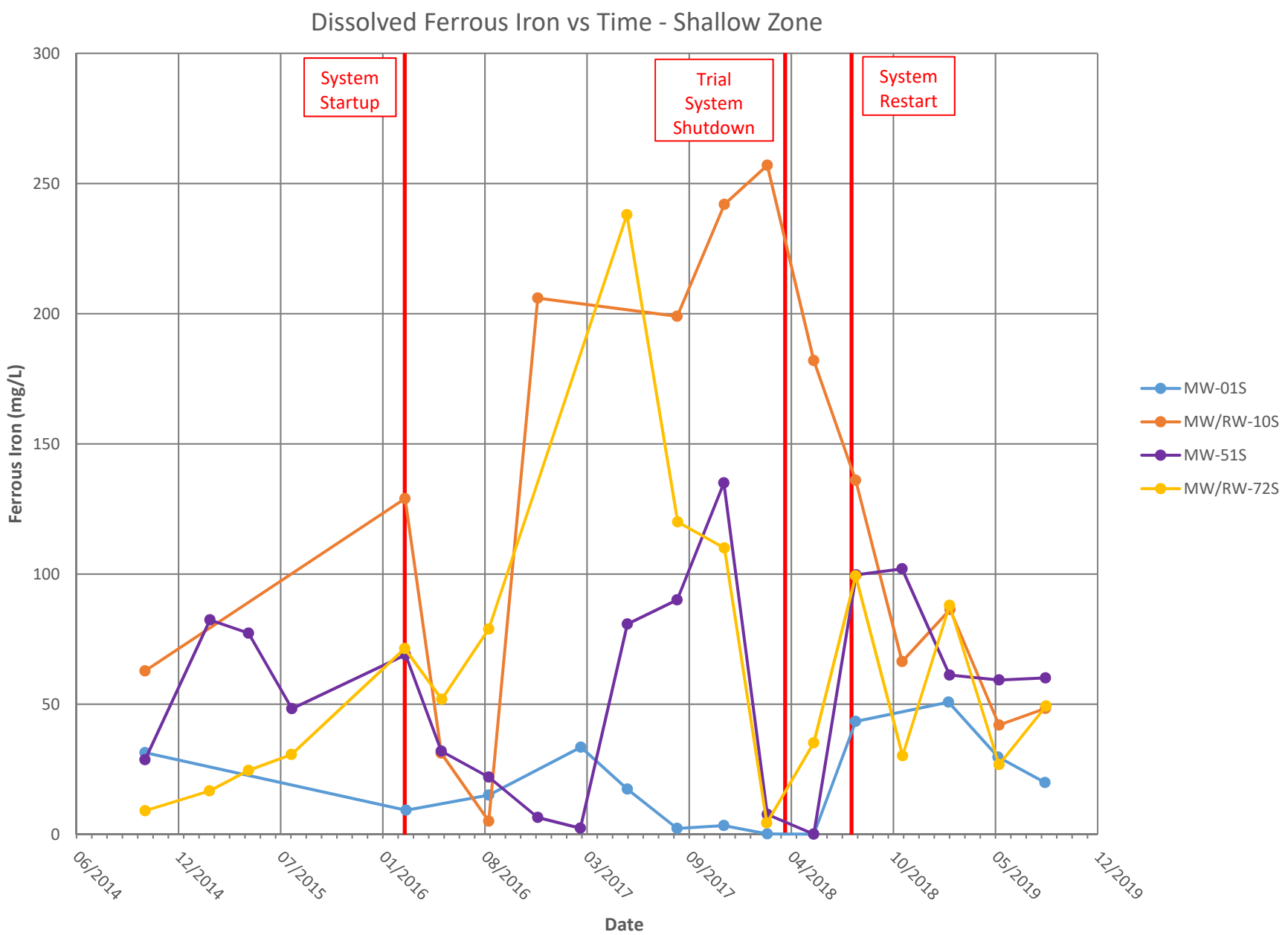

Dissolved Nitrate vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Nitrate (mg/L)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW/RW-14
MW-27
MW/RW-72
MW-106
MW-121
MW-122
MW/RW-05
TW-03
TW-05
TW-06
TW-07

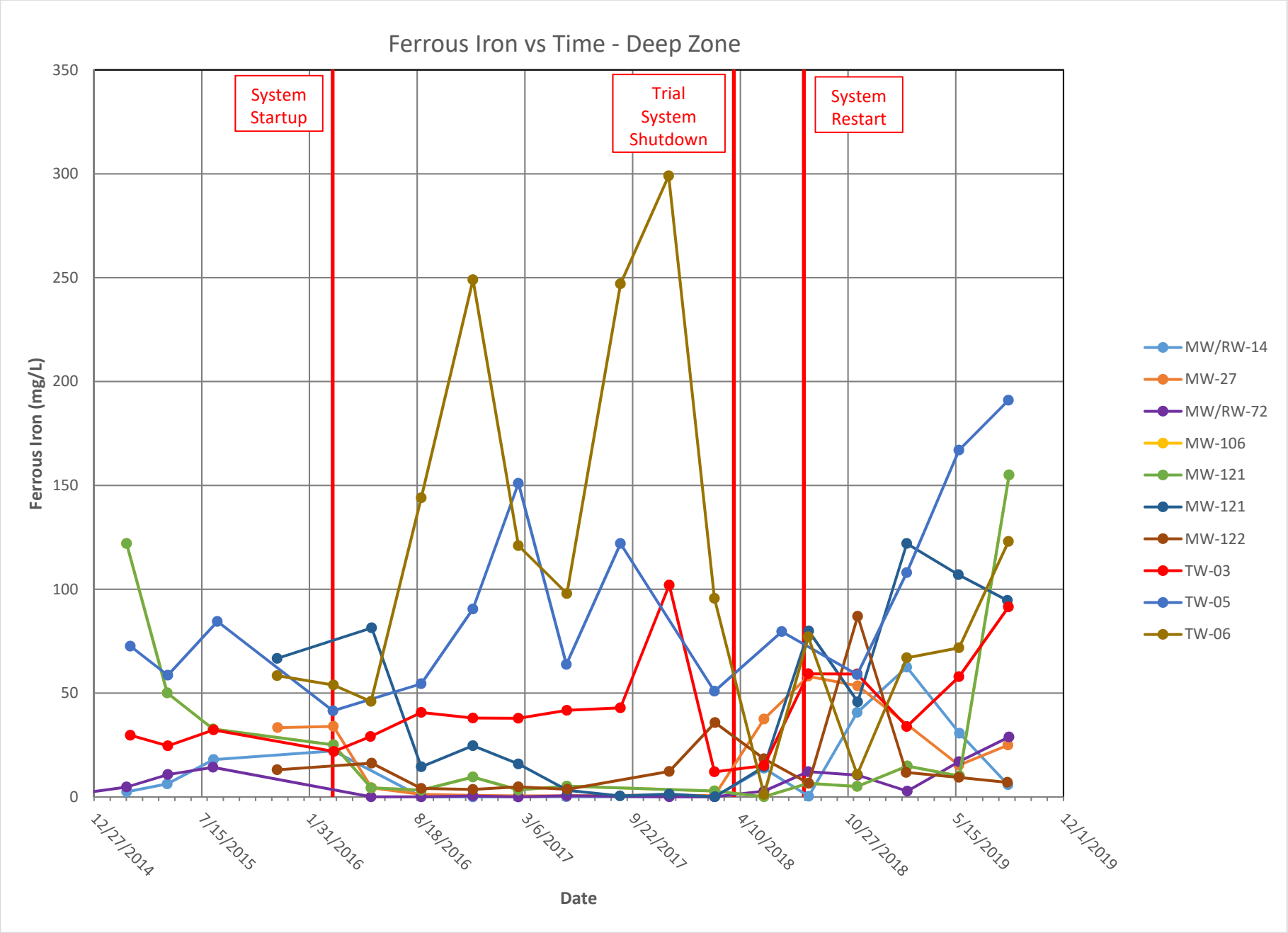

Dissolved Nitrite vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Nitrite (mg/L)
0.25
0.2
0.15
0.1
0.05
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

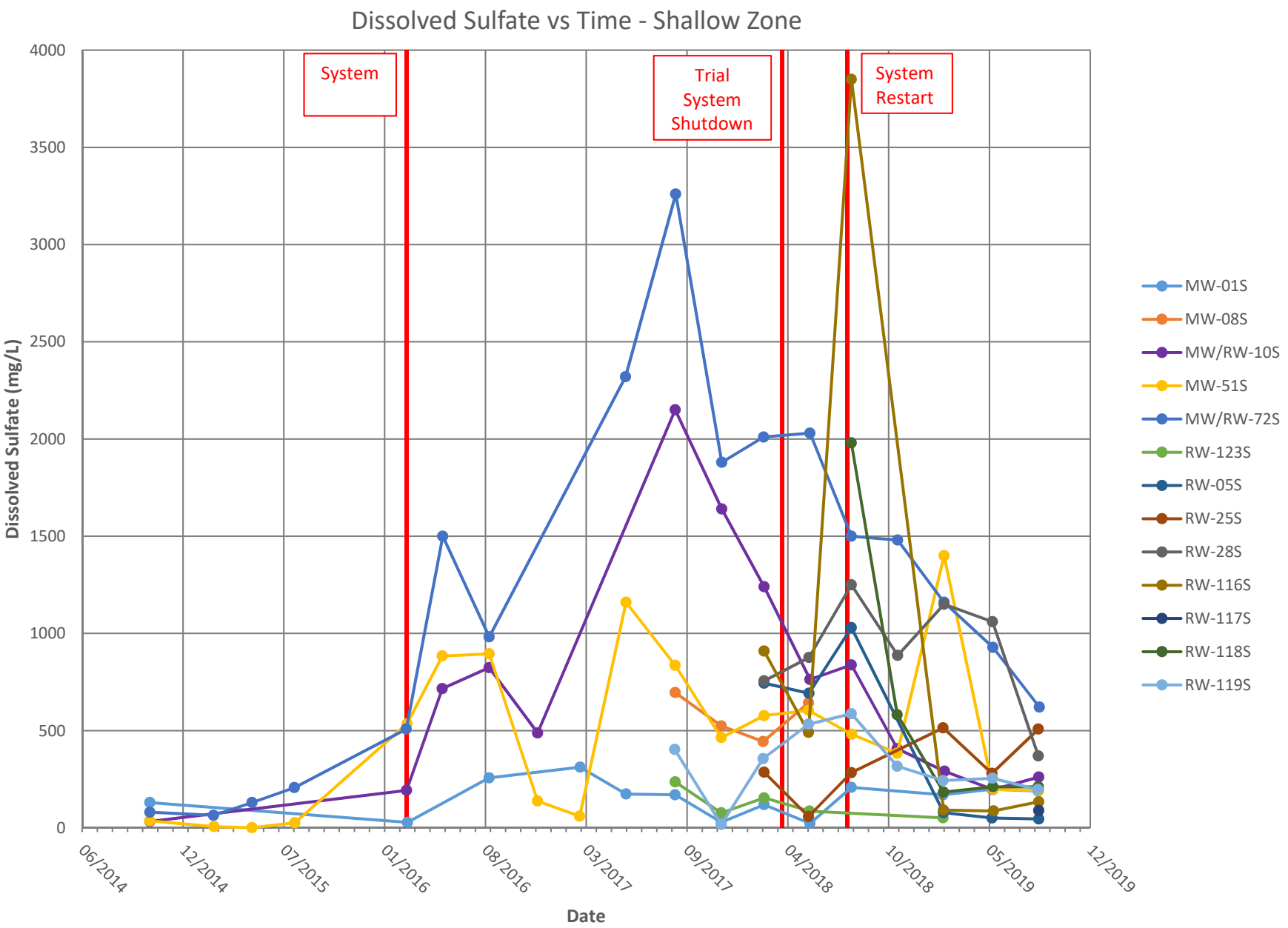

Dissolved Nitrite vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Nitrite (mg/L)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6/10/2014
12/27/2014
7/15/2015
1/31/2016
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
Date
MW/RW-14
MW-27
MW/RW-72
MW-106
MW-121
MW-122
TW-03
TW-05
TW-06
TW-07

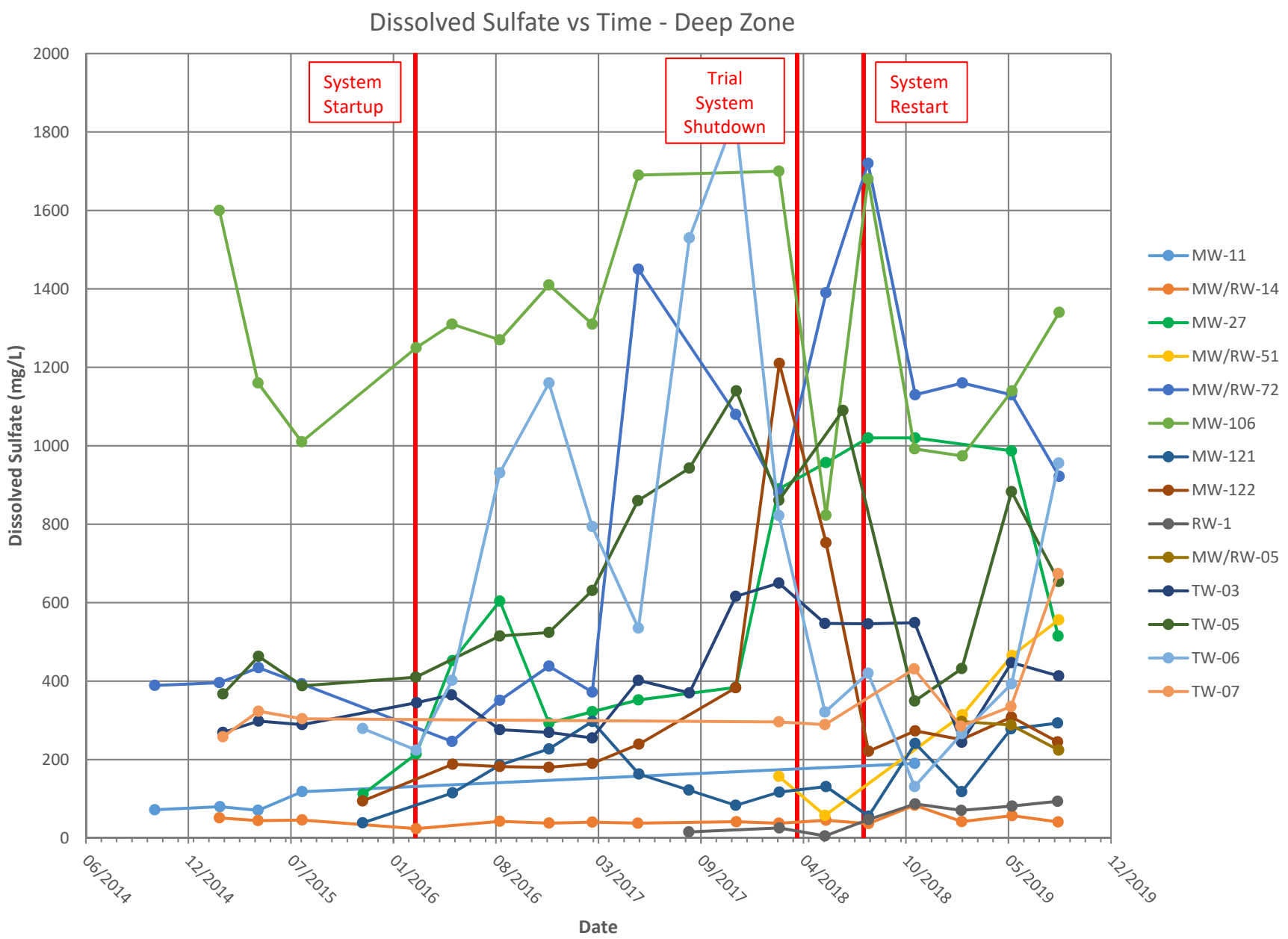

Dissolved Manganese vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Manganese (mg/L)
70
60
50
40
30
20
10
0
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

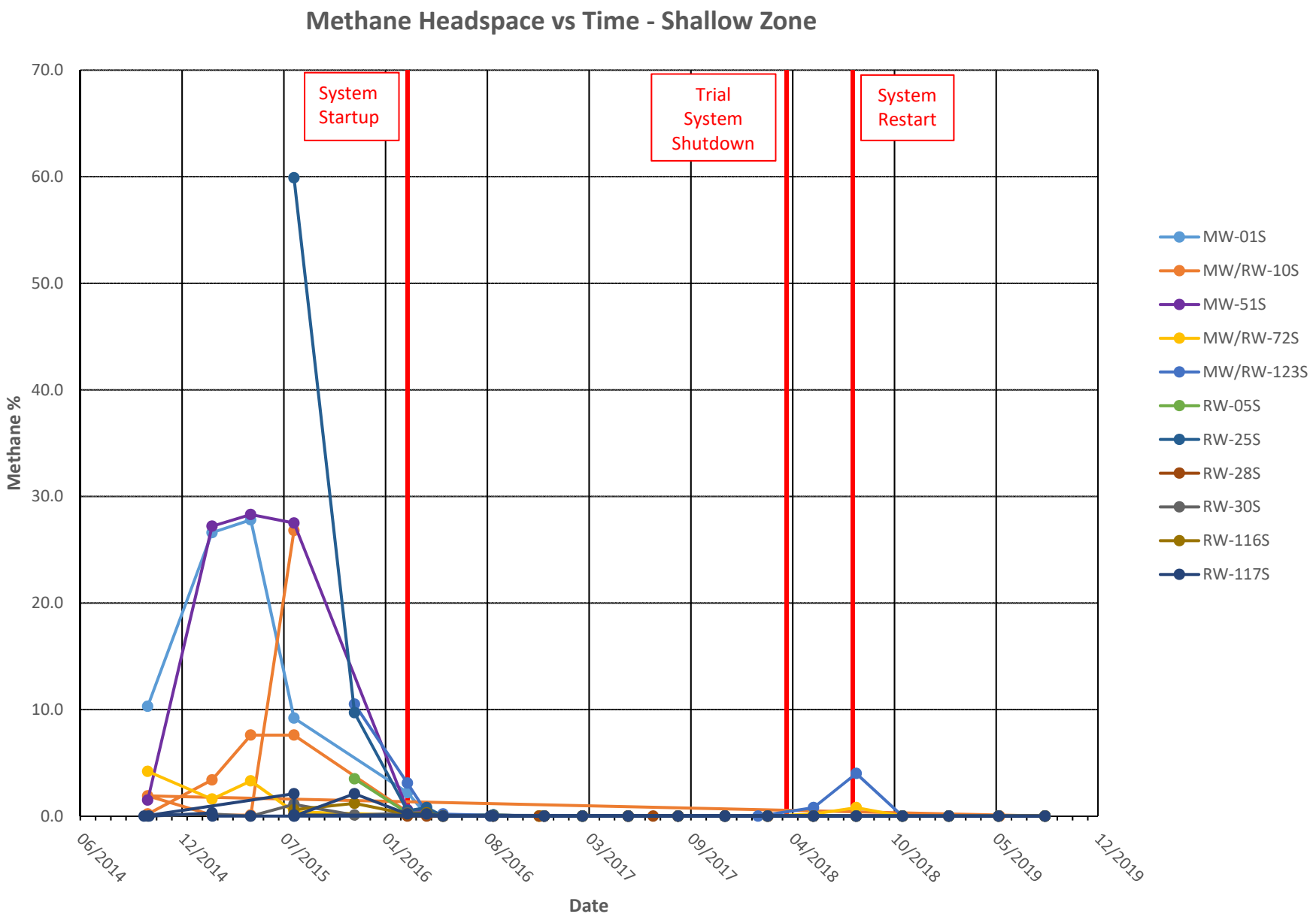

Dissolved Manganese vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Manganese (mg/L)
100
90
80
70
60
50
40
30
20
10
0
12/27/2014
7/15/2015
1/31/2016
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
Date
MW/RW-14
MW-27
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122

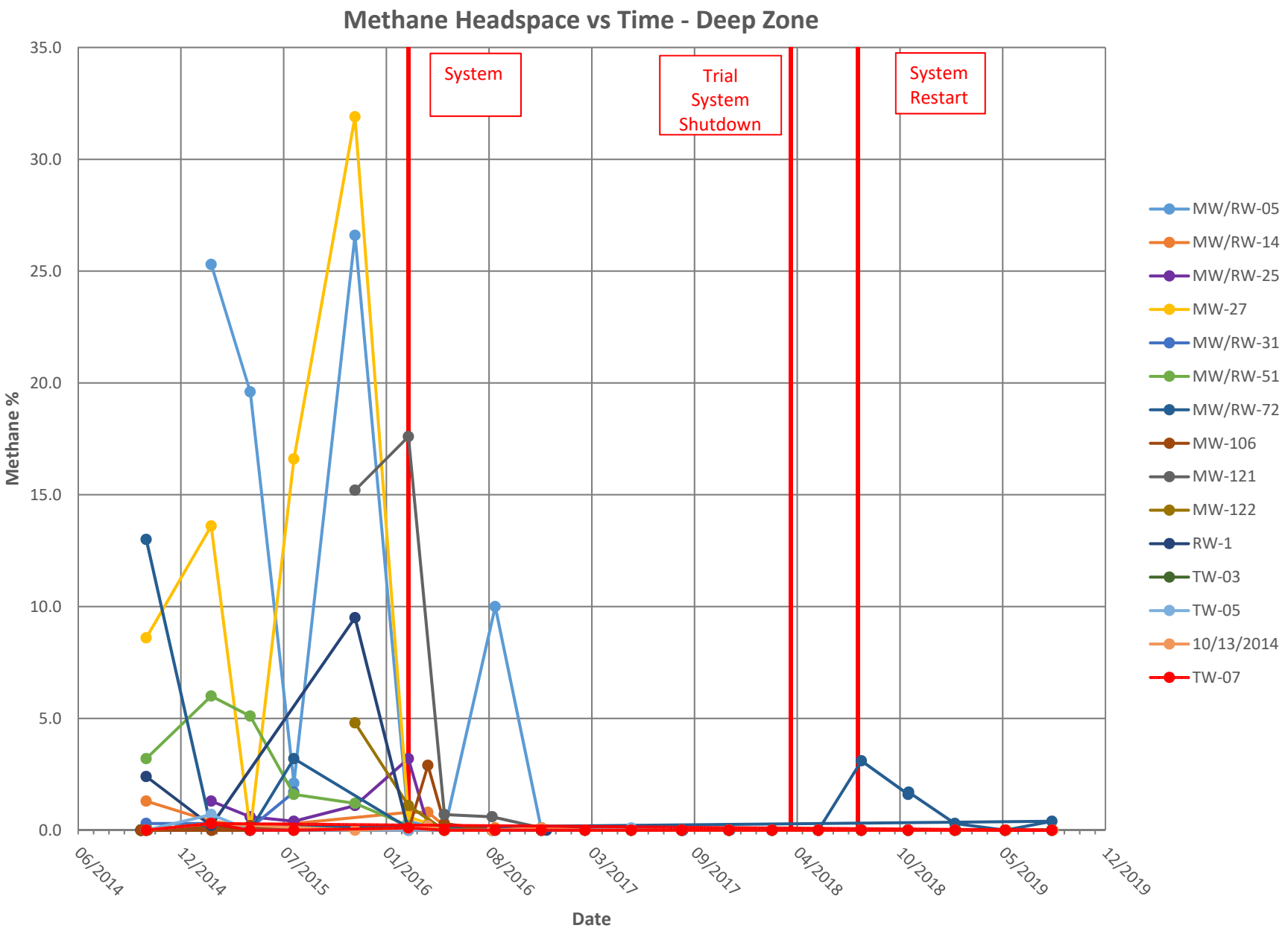

Dissolved Ferrous Iron vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
Ferrous Iron (mg/L)
300
250
200
150
100
50
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S

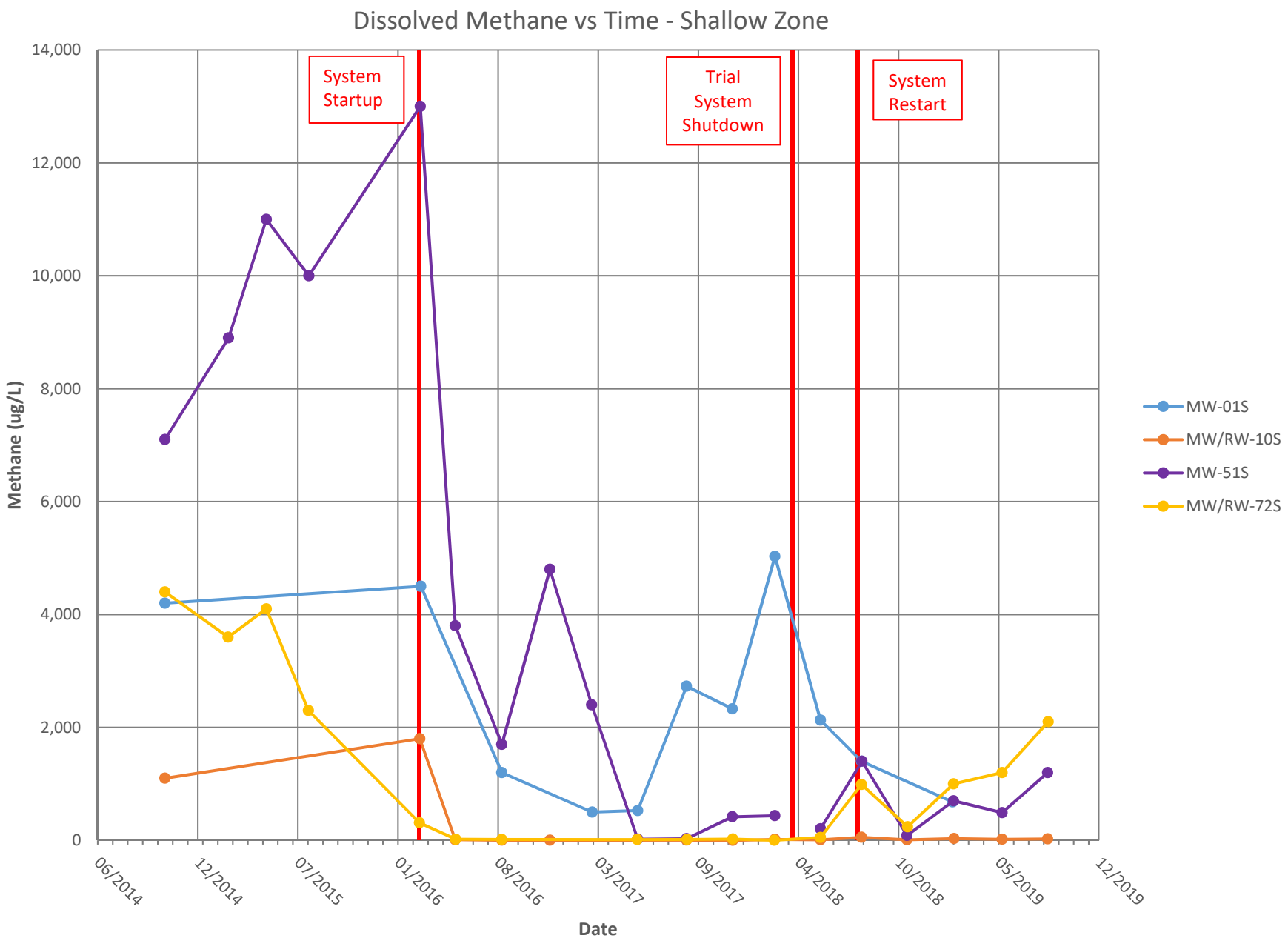

Ferrous Iron vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
Ferrous Iron (mg/L)
350
300
250
200
150
100
50
0
12/27/2014
7/15/2015
1/31/2016
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
Date
MW/RW-14
MW-27
MW/RW-72
MW-106
MW-121
MW-121
MW-122
TW-03
TW-05
TW-06

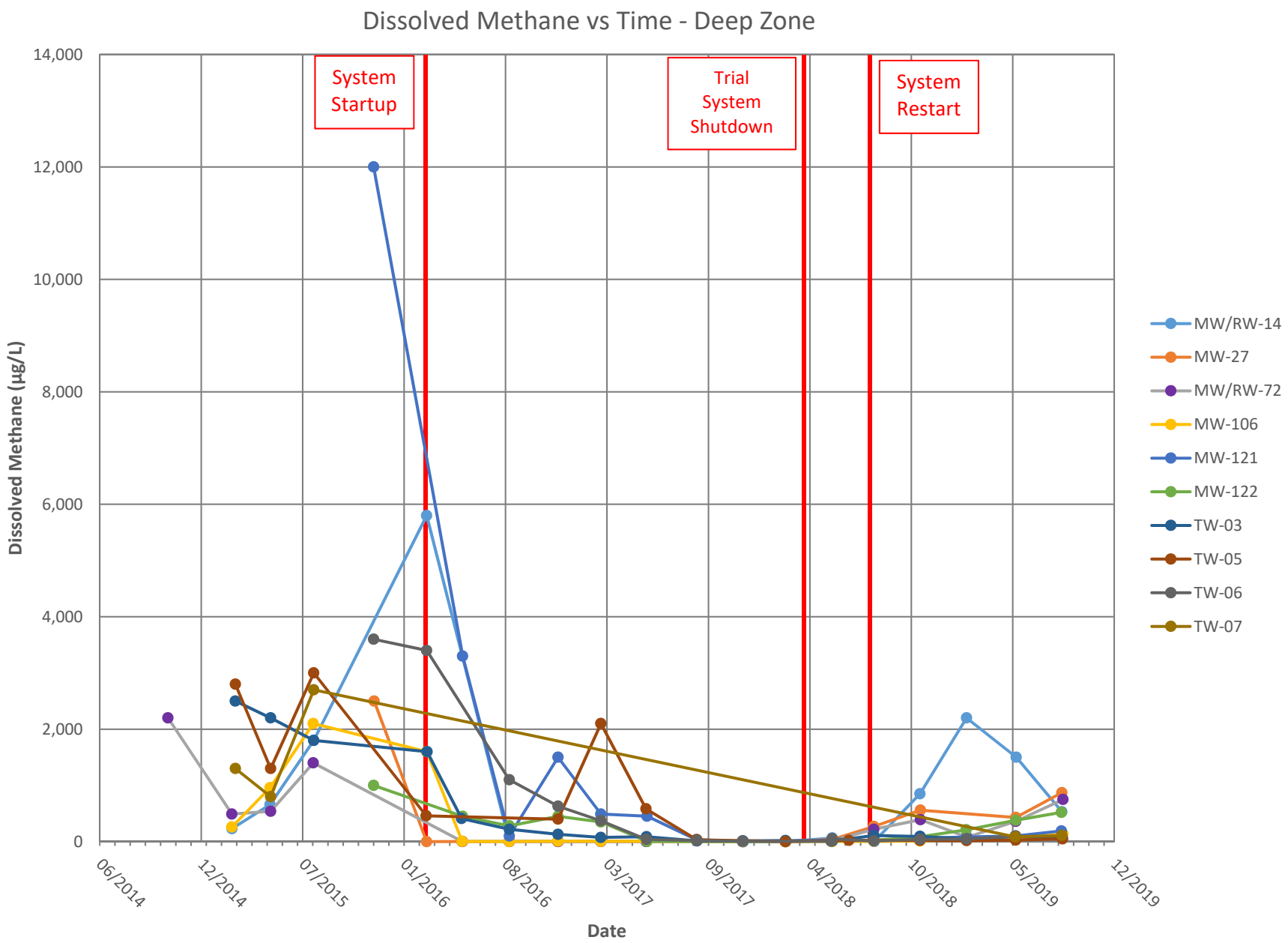

Dissolved Sulfate vs Time - Shallow Zone
System
Trial System Shutdown
System Restart
Dissolved Sulfate (mg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW-08S
MW/RW-10S
MW-51S
MW/RW-72S
RW-123S
RW-05S
RW-25S
RW-28S
RW-116S
RW-117S
RW-118S
RW-119S


Dissolved Sulfate vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Sulfate (mg/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-11
MW/RW-14
MW-27
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
MW/RW-05
TW-03
TW-05
TW-06
TW-07


Methane Headspace vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
Methane %
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S
MW/RW-123S
RW-05S
RW-25S
RW-28S
RW-30S
RW-116S
RW-117S


Methane Headspace vs Time - Deep Zone
System
Trial System Shutdown
System Restart
Methane %
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW/RW-05
MW/RW-14
MW/RW-25
MW-27
MW/RW-31
MW/RW-51
MW/RW-72
MW-106
MW-121
MW-122
RW-1
TW-03
TW-05
10/13/2014
TW-07


Dissolved Methane vs Time - Shallow Zone
System Startup
Trial System Shutdown
System Restart
Methane (ug/L)
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW-01S
MW/RW-10S
MW-51S
MW/RW-72S


Dissolved Methane vs Time - Deep Zone
System Startup
Trial System Shutdown
System Restart
Dissolved Methane (µg/L)
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
06/2014
12/2014
07/2015
01/2016
08/2016
03/2017
09/2017
04/2018
10/2018
05/2019
12/2019
Date
MW/RW-14
MW-27
MW/RW-72
MW-106
MW-121
MW-122
TW-03
TW-05
TW-06
TW-07

Attachment C – Laboratory Analytical Reports and Chains of Custody Documentation - August 19 - 22, 2019 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: August 31, 2019 22:22

Project: NRG PRGS

Account #: 08390
Group Number: 2059749
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 https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-08S Grab Groundwater	08/19/2019 11:15	1130766
MW-121 Grab Groundwater	08/19/2019 13:25	1130767
RW-1 Grab Groundwater	08/19/2019 14:22	1130768

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-08S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/20/2019 16:40
Collection Date/Time: 08/19/2019 11:15

GES, Inc.
ELLE Sample #: RW 1130766
ELLE Group #: 2059749
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.	5,000	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	192340027A	08/27/2019 21:35	Nicholas R Rossi	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192340027A	08/23/2019 12:25	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/20/2019 16:40
Collection Date/Time: 08/19/2019 13:25

GES, Inc.
ELLE Sample #: RW 1130767
ELLE Group #: 2059749
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	190	6.0	2
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	9,700	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	9.95	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	293	60.0	200
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	N.D.	0.040	1
00219	Nitrite Nitrogen		14797-65-0	N.D.	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	94.6	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	317	2.6	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	192350013A	08/27/2019 12:19	Johanna C Kennedy	2
12858	DRO micro-ext 8015B	SW-846 8015B	1	192340027A	08/27/2019 21:59	Nicholas R Rossi	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192340027A	08/23/2019 12:25	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192331404404	08/23/2019 19:53	Cindy M Gehman	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192331404404	08/21/2019 17:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	19240135112A	08/28/2019 13:55	Kevin Litwa	200
00220	Nitrate Nitrogen	EPA 353.2	1	19241106101A	08/29/2019 11:51	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19232105102B	08/20/2019 23:09	Gregory Baldree	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127102A	08/28/2019 23:40	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19233005102A	08/21/2019 22:27	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: 08/20/2019 16:40
Collection Date/Time: 08/19/2019 14:22

GES, Inc.
ELLE Sample #: RW 1130768
ELLE Group #: 2059749
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.	2,400	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	93.6	6.0	20
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	210	2.6	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	192340027A	08/27/2019 22:23	Nicholas R Rossi	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192340027A	08/23/2019 12:25	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19239135109A	08/27/2019 23:07	Kevin Litwa	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19233005102A	08/21/2019 22:34	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 08/31/2019 22:22

Group Number: 2059749

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: 192350013A	Sample number(s): 1130767	
Methane	N.D.	3.0
Batch number: 192340027A	Sample number(s): 1130766-1130768	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192331404404	Sample number(s): 1130767	
Manganese	N.D.	0.0011
Batch number: 19232105102B	Sample number(s): 1130767	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19239135109A	Sample number(s): 1130768	
Sulfate	N.D.	0.30
Batch number: 19240127102A	Sample number(s): 1130767	
Ferrous Iron	N.D.	0.0150
Batch number: 19240135112A	Sample number(s): 1130767	
Sulfate	N.D.	0.30
Batch number: 19241106101A	Sample number(s): 1130767	
Nitrate Nitrogen	N.D.	0.040
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 19233005102A	Sample number(s): 1130767-1130768	
Total Alkalinity to pH 4.5	N.D.	2.6

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: 192350013A	Sample number(s): 1130767								
Methane	59.83	58.67	59.83	59.72	98	100	85-115	2	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 192340027A	Sample number(s): 1130766-1130768								

*- 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: 08/31/2019 22:22

Group Number: 2059749

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
DRO C10-C28	2754.52	2445.45			89		27-118		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 192331404404	Sample number(s): 1130767								
Manganese	0.500	0.495			99		90-112		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19232105102B	Sample number(s): 1130767								
Nitrite Nitrogen	0.700	0.739			106		90-110		
Batch number: 19239135109A	Sample number(s): 1130768								
Sulfate	7.50	7.32			98		90-110		
Batch number: 19240127102A	Sample number(s): 1130767								
Ferrous Iron	1.00	1.01			101		90-110		
Batch number: 19240135112A	Sample number(s): 1130767								
Sulfate	7.50	7.41			99		90-110		
Batch number: 19241106101A	Sample number(s): 1130767								
Nitrate Nitrogen	2.50	2.55			102		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 19233005102A	Sample number(s): 1130767-1130768								
Total Alkalinity to pH 4.5	188	167.91			89		82-106		

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 192340027A

	Orthoterphenyl
1130766	102
1130767	62
1130768	109
Blank	99
LCS	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.

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Quality Control Summary

Client Name: GES, Inc.
Reported: 08/31/2019 22:22

Group Number: 2059749

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: 192350013A

	Propene
1130767	72
Blank	103
LCS	99
LCSD	100
Limits:	46-135

*- 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 # 2059749 Sample # 1130766-68

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	Soil	Sediment	Potable	Ground	Water	NPDES	Surface	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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	-	-/S	N	H	-	H	
MW-085	8/19/19	1115	X					X					2	X							
MW-121	8/19/19	1325	X					X					10	X	X	X	X	X	X	X	
RW-1	8/19/19	1422	X					X					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]	8/19/19	1630	Denise Woodring	8-20-19	0800
Denise Woodring	8-20-19	12:43	[signature]	8-20-19	1243
[signature]	8-20-19	1640			
			[signature]	8-20-19	1640

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 257665

Group Number(s): 2059749

Client: GROUNDWATER & ENV. SERVICES, I

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/20/2019 16:40
Number of Packages:	1	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	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jessenia Colon Martinez (30 856) at 17:25 on 08/20/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	192050133	1.6	IR	Wet	Y	Loose	N

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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.

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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: September 04, 2019 09:00

Project: NRG PRGS

Account #: 08390
Group Number: 2059750
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-119S Grab Groundwater	08/19/2019 13:25	1130769
MW-122 Grab Groundwater	08/19/2019 14:15	1130770

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-119S Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/20/2019 16:40
Collection Date/Time: 08/19/2019 13:25

GES, Inc.
ELLE Sample #: RW 1130769
ELLE Group #: 2059750
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.	2,100	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	197	15.0	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	204	2.6	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	192340027A	08/27/2019 22:47	Nicholas R Rossi	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192340027A	08/23/2019 12:25	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19241135212A	08/30/2019 00:58	Kevin Litwa	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19233005102A	08/21/2019 22:41	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/20/2019 16:40
Collection Date/Time: 08/19/2019 14:15

GES, Inc.
ELLE Sample #: RW 1130770
ELLE Group #: 2059750
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	520	15	5
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	780	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	7.05	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	245	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.	39.4	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	331	2.6	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	192350013A	08/27/2019 12:37	Johanna C Kennedy	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	192340027A	08/27/2019 23:11	Nicholas R Rossi	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192340027A	08/23/2019 12:25	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192331404404	08/23/2019 19:37	Cindy M Gehman	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192331404404	08/21/2019 17:40	JoElla L Rice	1
00228	Sulfate	EPA 300.0	1	19239135109A	08/27/2019 22:49	Kevin Litwa	50
00220	Nitrate Nitrogen	EPA 353.2	1	19241106101A	08/29/2019 13:25	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19232105102A	08/20/2019 23:02	Gregory Baldree	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127102A	08/28/2019 23:38	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19233005102A	08/21/2019 22:47	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/04/2019 09:00

Group Number: 2059750

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: 192350013A	Sample number(s): 1130770	
Methane	N.D.	3.0
Batch number: 192340027A	Sample number(s): 1130769-1130770	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192331404404	Sample number(s): 1130770	
Manganese	N.D.	0.0011
Batch number: 19232105102A	Sample number(s): 1130770	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19239135109A	Sample number(s): 1130770	
Sulfate	N.D.	0.30
Batch number: 19240127102A	Sample number(s): 1130770	
Ferrous Iron	N.D.	0.0150
Batch number: 19241106101A	Sample number(s): 1130770	
Nitrate Nitrogen	N.D.	0.040
Batch number: 19241135212A	Sample number(s): 1130769	
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 19233005102A	Sample number(s): 1130769-1130770	
Total Alkalinity to pH 4.5	N.D.	2.6

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: 192350013A	Sample number(s): 1130770								
Methane	59.83	58.67	59.83	59.72	98	100	85-115	2	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 192340027A	Sample number(s): 1130769-1130770								

*- 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: 09/04/2019 09:00

Group Number: 2059750

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
DRO C10-C28	2754.52	2445.45			89		27-118		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 192331404404	Sample number(s): 1130770								
Manganese	0.500	0.495			99		90-112		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19232105102A	Sample number(s): 1130770								
Nitrite Nitrogen	0.700	0.739			106		90-110		
Batch number: 19239135109A	Sample number(s): 1130770								
Sulfate	7.50	7.32			98		90-110		
Batch number: 19240127102A	Sample number(s): 1130770								
Ferrous Iron	1.00	1.01			101		90-110		
Batch number: 19241106101A	Sample number(s): 1130770								
Nitrate Nitrogen	2.50	2.55			102		90-110		
Batch number: 19241135212A	Sample number(s): 1130769								
Sulfate	7.50	7.29			97		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 19233005102A	Sample number(s): 1130769-1130770								
Total Alkalinity to pH 4.5	188	167.91			89		82-106		

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 192340027A

	Orthoterphenyl
1130769	104
1130770	106
Blank	99
LCS	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.

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/04/2019 09:00

Group Number: 2059750

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: 192350013A

	Propene
1130770	77
Blank	103
LCS	99
LCSD	100
Limits:	46-135

*- 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 # 2059750 Sample # 1130769-70

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	Ground	Surface	Soil	Potable	NPDES	Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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	-	-/S	N	H	-	H	
RW-119S	8-19-19	1325	X			X					X		4	X	X				X		
MW-122	8-19-19	1415	X			X					X		10	X	X	X	X	X	X	X	

Matrix: Sediment ☐; Ground ☑; Surface ☐; Soil ☐; Potable ☐; NPDES ☑; Water; 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	8-20-19	0800	Denise Woodring	8-20-19	0800
Denise Woodring	8-20-19	12:43	[illegible]	8-20-19	1243
[illegible]	8/20/19	1640			
			[illegible]	8-20-19	16:40

Relinquished by Commercial Carrier:
UPS ____ FedEx ____ Other ✓

Temperature upon receipt 1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 257665

Group Number(s): 2059750

Client: GROUNDWATER & ENV. SERVICES,

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/20/2019 16:40
Number of Packages:	1	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	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Jessenia Colon Martinez (30 856) at 17:25 on 08/20/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	192050133	1.6	IR	Wet	Y	Loose	N

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F 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

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.

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Data Qualifiers

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D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
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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: September 04, 2019 19:09

Project: NRG PRGS

Account #: 08390
Group Number: 2059979
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	08/20/2019 09:35	1131944
RW-118S Grab Groundwater	08/20/2019 10:05	1131945
RW-14 Grab Groundwater	08/20/2019 11:04	1131946
MW-25S Grab Groundwater	08/20/2019 12:10	1131947
MW/RW-25 Grab Groundwater	08/20/2019 13:07	1131948
RW-25S Grab Groundwater	08/20/2019 14:00	1131949

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: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 09:35

GES, Inc.
ELLE Sample #: RW 1131944
ELLE Group #: 2059979
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	192350037A	08/28/2019 11:53	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 10:05

GES, Inc.
ELLE Sample #: RW 1131945
ELLE Group #: 2059979
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.	5,400	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	211	15.0	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	58.9	2.6	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	192350037A	08/28/2019 12:17	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19242135112A	08/30/2019 08:45	Kevin Litwa	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 23:01	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 11:04

GES, Inc.
ELLE Sample #: RW 1131946
ELLE Group #: 2059979
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	530	15	5
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	830	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	0.373	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	40.8	1.5	5
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.088 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.	5.88	0.0750	5
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	48.3	2.6	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	192380001A	08/27/2019 13:28	Johanna C Kennedy	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	192350037A	08/28/2019 12:41	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192341404404	08/24/2019 18:06	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192341404404	08/23/2019 06:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	19242135112A	08/30/2019 09:35	Kevin Litwa	5
00220	Nitrate Nitrogen	EPA 353.2	1	19246106102A	09/04/2019 09:46	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19233105102B	08/22/2019 01:34	Gregory Baldree	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 20:58	Gregory Baldree	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 23:26	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 12:10

GES, Inc.
ELLE Sample #: RW 1131947
ELLE Group #: 2059979
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.	8,400	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.	51.3	2.6	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	192350037A	08/28/2019 13:04	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007202A	08/27/2019 19:10	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 13:07

GES, Inc.
ELLE Sample #: RW 1131948
ELLE Group #: 2059979
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	340	15	5
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	3,100	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.95	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	246	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.	17.8	0.150	10
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	59.2	2.6	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	192380021A	08/27/2019 14:09	Johanna C Kennedy	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	192350037A	08/28/2019 13:28	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192341404403	08/23/2019 22:26	Cindy M Gehman	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192341404403	08/23/2019 06:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	19242135112A	08/30/2019 09:52	Kevin Litwa	50
00220	Nitrate Nitrogen	EPA 353.2	1	19246106102B	09/04/2019 09:47	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19233105102B	08/22/2019 01:30	Gregory Baldree	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127102A	08/28/2019 23:04	Gregory Baldree	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 23:07	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 14:00

GES, Inc.
ELLE Sample #: RW 1131949
ELLE Group #: 2059979
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.	14,000	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	508	30.0	100
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	316	2.6	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	192350037A	08/28/2019 13:52	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19241720217B	08/30/2019 16:57	Samantha Faverio	100
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007202A	08/27/2019 18:55	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/04/2019 19:09

Group Number: 2059979

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: 192380001A	Sample number(s): 1131946	
Methane	N.D.	3.0
Batch number: 192380021A	Sample number(s): 1131948	
Methane	N.D.	3.0
Batch number: 192350037A	Sample number(s): 1131944-1131949	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192341404403	Sample number(s): 1131948	
Manganese	N.D.	0.0011
Batch number: 192341404404	Sample number(s): 1131946	
Manganese	N.D.	0.0011
Batch number: 19233105102B	Sample number(s): 1131946,1131948	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19240127101A	Sample number(s): 1131946	
Ferrous Iron	N.D.	0.0150
Batch number: 19240127102A	Sample number(s): 1131948	
Ferrous Iron	N.D.	0.0150
Batch number: 19241720217B	Sample number(s): 1131949	
Sulfate	N.D.	0.30
Batch number: 19242135112A	Sample number(s): 1131945-1131946,1131948	
Sulfate	N.D.	0.30
Batch number: 19246106102A	Sample number(s): 1131946	
Nitrate Nitrogen	N.D.	0.040
Batch number: 19246106102B	Sample number(s): 1131948	
Nitrate Nitrogen	N.D.	0.040
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 19239007202A	Sample number(s): 1131947,1131949	
Total Alkalinity to pH 4.5	N.D.	2.6
Batch number: 19239007203A	Sample number(s): 1131945-1131946,1131948	
Total Alkalinity to pH 4.5	N.D.	2.6

*- 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: 09/04/2019 19:09

Group Number: 2059979

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: 192380001A	Sample number(s): 1131946								
Methane	59.83	57.77	59.83	58.66	97	98	85-115	2	20
Batch number: 192380021A	Sample number(s): 1131948								
Methane	59.83	58.45	59.83	55.13	98	92	85-115	6	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 192350037A	Sample number(s): 1131944-1131949								
DRO C10-C28	2740.18	2442.32	2700.96	2381.37	89	88	27-118	3	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 192341404403	Sample number(s): 1131948								
Manganese	0.500	0.505			101		90-112		
Batch number: 192341404404	Sample number(s): 1131946								
Manganese	0.500	0.522			104		90-112		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 19233105102B	Sample number(s): 1131946,1131948								
Nitrite Nitrogen	0.700	0.738			105		90-110		
Batch number: 19240127101A	Sample number(s): 1131946								
Ferrous Iron	1.00	1.00			100		90-110		
Batch number: 19240127102A	Sample number(s): 1131948								
Ferrous Iron	1.00	1.01			101		90-110		
Batch number: 19241720217B	Sample number(s): 1131949								
Sulfate	7.50	7.30			97		90-110		
Batch number: 19242135112A	Sample number(s): 1131945-1131946,1131948								
Sulfate	7.50	7.45			99		90-110		
Batch number: 19246106102A	Sample number(s): 1131946								
Nitrate Nitrogen	2.50	2.51			100		90-110		
Batch number: 19246106102B	Sample number(s): 1131948								
Nitrate Nitrogen	2.50	2.51			100		90-110		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 19239007202A	Sample number(s): 1131947,1131949								
Total Alkalinity to pH 4.5	188	185.47			99		82-106		
Batch number: 19239007203A	Sample number(s): 1131945-1131946,1131948								
Total Alkalinity to pH 4.5	188	185.43			99		82-106		

*- 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: 09/04/2019 19:09

Group Number: 2059979

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 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: 19242135112A	Sample number(s): 1131945-1131946,1131948 UNSPK: 1131945									
Sulfate	211.32	250	458.6			99		90-110		
Batch number: 19246106102B	Sample number(s): 1131948 UNSPK: 1131948									
Nitrate Nitrogen	N.D.	1.00	1.12			112*		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: 19242135112A	Sample number(s): 1131945-1131946,1131948 BKG: 1131945			
Sulfate	211.32	209.5	1 (1)	15
Batch number: 19246106102B	Sample number(s): 1131948 BKG: 1131948			
Nitrate Nitrogen	N.D.	N.D.	0 (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: DRO micro-ext 8015B
Batch number: 192350037A

	Orthoterphenyl
1131944	102
1131945	118

*- 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: 09/04/2019 19:09

Group Number: 2059979

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 192350037A

	Orthoterphenyl
1131946	106
1131947	95
1131948	112
1131949	81
Blank	102
LCS	92
LCSD	95
Limits:	62-128

Analysis Name: Methane
Batch number: 192380001A

	Propene
1131946	74
Blank	100
LCS	102
LCSD	102
Limits:	46-135

Analysis Name: Methane
Batch number: 192380021A

	Propene
1131948	82
Blank	102
LCS	104
LCSD	98
Limits:	46-135

*- 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 # 2059979 Sample # 1131944-49

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	Sediment	Water: Potable	Water: Ground	Water: NPDES	Water: Surface	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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
													H	-	-/S	N	H	-	H	
MW-16	8/20/19	0935	X				X					2	X							
RW-11BS	8/20/19	1005	X				X					4	X	X				X		
RW-14	8/20/19	1109	X				X					10	X	X	X	X	X	X	X	
MW-25S	8/20/19	1210	X				X					3	X	X						
MW/RW-25	8/20/19	1307	X				X					10	X	X	X	X	X	X	X	
RW-25S	8/20/19	1400	X				X					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]	8/20/19	1605	Denise Woodring	8-20-19	1610
Denise Woodring	8-21-19	1356	[signature]	8-21-19	1356
[signature]	8-21-19	1648			
			[signature]	8-21-19	1648

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 2.7 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 257811

Group Number(s):

2059979

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/21/2019 16:48
Number of Packages:	1	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:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Ann-Marie Phillips (13 160) at 18:07 on 08/21/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT42-03	2.7	DT	Wet	Y	Loose	N

Sample Date/Time Discrepancy Details

Sample ID on COC	Date/Time on Label	Comments
RW-14	8/20/2019 10:52	COC= 11:04 LF593 8/22/19

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Lancaster, PA 17605-2425
T | 717-656-2300
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.

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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: September 04, 2019 15:41

Project: NRG PRGS

Account #: 08390
Group Number: 2059980
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-31/RW-31 Grab Groundwater	08/20/2019 09:30	1131950
RW-30S Grab Groundwater	08/20/2019 10:00	1131951
RW-28S Grab Groundwater	08/20/2019 10:45	1131952
MW-27 Grab Groundwater	08/20/2019 11:25	1131953
TW-07 Grab Groundwater	08/20/2019 12:10	1131954
MW-123S/RW-123S Grab Groundwater	08/20/2019 12:30	1131955
MW-01S Grab Groundwater	08/20/2019 13:20	1131956

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-31/RW-31 Grab Groundwater NRG - PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 09:30

GES, Inc.
ELLE Sample #: RW 1131950
ELLE Group #: 2059980
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	192350037A	08/28/2019 14:15	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 10:00

GES, Inc.
ELLE Sample #: RW 1131951
ELLE Group #: 2059980
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.	150	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	192350037A	08/28/2019 14:39	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 10:45

GES, Inc.
ELLE Sample #: RW 1131952
ELLE Group #: 2059980
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.	550	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	370	30.0	100
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	201	2.6	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	192350037A	08/28/2019 15:03	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19241720217B	08/30/2019 16:22	Samantha Faverio	100
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 23:20	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: RW 1131953
ELLE Group #: 2059980
Matrix: Groundwater

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 11:25

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	870	30	10
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	670	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	10.8	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	515	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	0.016 J	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	25.0	0.300	20
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	195	2.6	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	192380021A	08/27/2019 14:28	Johanna C Kennedy	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	192350037A	08/28/2019 17:31	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192341404404	08/24/2019 17:50	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192341404404	08/23/2019 06:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	19241720217B	08/30/2019 15:47	Samantha Faverio	100
00220	Nitrate Nitrogen	EPA 353.2	1	19234106102A	08/22/2019 14:20	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19233105102B	08/22/2019 01:35	Gregory Baldree	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127102A	08/28/2019 23:18	Gregory Baldree	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007202A	08/27/2019 19:22	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 12:10

GES, Inc.
ELLE Sample #: RW 1131954
ELLE Group #: 2059980
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	110	3.0	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	9.87	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	674	30.0	100
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.27	0.040	1
00219	Nitrite Nitrogen		14797-65-0	0.029 J	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	79.2	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	2.6	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	192380021A	08/26/2019 19:41	Johanna C Kennedy	1
07058	Manganese	SW-846 6010C	1	192341404403	08/23/2019 22:22	Cindy M Gehman	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192341404403	08/23/2019 06:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	19241720217B	08/30/2019 14:37	Samantha Faverio	100
00220	Nitrate Nitrogen	EPA 353.2	1	19234106102A	08/22/2019 14:22	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19233105103B	08/22/2019 02:46	Gregory Baldree	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127102A	08/28/2019 23:38	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 23:10	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: RW 1131955
ELLE Group #: 2059980
Matrix: Groundwater

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 12:30

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.	3,900	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	192350037A	08/28/2019 17:54	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: RW 1131956
ELLE Group #: 2059980
Matrix: Groundwater

Submittal Date/Time: 08/21/2019 16:48
Collection Date/Time: 08/20/2019 13:20

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	390	15	5
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	1,300	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	11.9	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	189	6.0	20
		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.	19.9	0.150	10
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	284	2.6	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	192380021A	08/27/2019 15:06	Johanna C Kennedy	5
12858	DRO micro-ext 8015B	SW-846 8015B	1	192350037A	08/28/2019 18:18	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192350037A	08/26/2019 06:25	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192341404404	08/24/2019 18:16	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192341404404	08/23/2019 06:00	Annamaria Kuhns	1
00228	Sulfate	EPA 300.0	1	19241720217B	08/30/2019 14:19	Samantha Faverio	20
00220	Nitrate Nitrogen	EPA 353.2	1	19234106102A	08/22/2019 14:25	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19233105102B	08/22/2019 01:29	Gregory Baldree	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127102A	08/28/2019 23:05	Gregory Baldree	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007202A	08/27/2019 19:16	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/04/2019 15:41

Group Number: 2059980

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: 192380021A	Sample number(s): 1131953-1131954,1131956	
Methane	N.D.	3.0
Batch number: 192350037A	Sample number(s): 1131950-1131953,1131955-1131956	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192341404403	Sample number(s): 1131954	
Manganese	N.D.	0.0011
Batch number: 192341404404	Sample number(s): 1131953,1131956	
Manganese	N.D.	0.0011
Batch number: 19233105102B	Sample number(s): 1131953,1131956	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19233105103B	Sample number(s): 1131954	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19234106102A	Sample number(s): 1131953-1131954,1131956	
Nitrate Nitrogen	N.D.	0.040
Batch number: 19240127102A	Sample number(s): 1131953-1131954,1131956	
Ferrous Iron	N.D.	0.0150
Batch number: 19241720217B	Sample number(s): 1131952-1131954,1131956	
Sulfate	N.D.	0.30
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 19239007202A	Sample number(s): 1131953,1131956	
Total Alkalinity to pH 4.5	N.D.	2.6
Batch number: 19239007203A	Sample number(s): 1131952,1131954	
Total Alkalinity to pH 4.5	N.D.	2.6

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

*- 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: 09/04/2019 15:41

Group Number: 2059980

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: 192380021A	Sample number(s): 1131953-1131954,1131956								
Methane	59.83	58.45	59.83	55.13	98	92	85-115	6	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 192350037A	Sample number(s): 1131950-1131953,1131955-1131956								
DRO C10-C28	2740.18	2442.32	2700.96	2381.37	89	88	27-118	3	20
	mg/l	mg/l	mg/l	mg/l					
Batch number: 192341404403	Sample number(s): 1131954								
Manganese	0.500	0.505			101		90-112		
Batch number: 192341404404	Sample number(s): 1131953,1131956								
Manganese	0.500	0.522			104		90-112		
	mg/l	mg/l	mg/l	mg/l					
Batch number: 19233105102B	Sample number(s): 1131953,1131956								
Nitrite Nitrogen	0.700	0.738			105		90-110		
Batch number: 19233105103B	Sample number(s): 1131954								
Nitrite Nitrogen	0.700	0.721			103		90-110		
Batch number: 19234106102A	Sample number(s): 1131953-1131954,1131956								
Nitrate Nitrogen	2.50	2.41			97		90-110		
Batch number: 19240127102A	Sample number(s): 1131953-1131954,1131956								
Ferrous Iron	1.00	1.01			101		90-110		
Batch number: 19241720217B	Sample number(s): 1131952-1131954,1131956								
Sulfate	7.50	7.30			97		90-110		
	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3					
Batch number: 19239007202A	Sample number(s): 1131953,1131956								
Total Alkalinity to pH 4.5	188	185.47			99		82-106		
Batch number: 19239007203A	Sample number(s): 1131952,1131954								
Total Alkalinity to pH 4.5	188	185.43			99		82-106		

*- 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: 09/04/2019 15:41

Group Number: 2059980

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 192350037A

	Orthoterphenyl
1131950	102
1131951	102
1131952	103
1131953	107
1131955	120
1131956	108
Blank	102
LCS	92
LCSD	95
Limits:	62-128

Analysis Name: Methane
Batch number: 192380021A

	Propene
1131953	81
1131954	98
1131956	79
Blank	102
LCS	104
LCSD	98
Limits:	46-135

*- 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 # 2081980 Sample # 1131950-56

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 Water	Surface Water	Potable Water	NPDES Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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	-	-/S	N	H	-	H	
MW-31/RW-31	8-20-19	0930	X					X				2	X							
RW-30S	↓	1000	↓					↓				2	X							
RW-28S		1045										4	X	X				X		
MW-27		1125										10	X	X	X	X	X	X	X	
TW-07		1210										8		X	X	X	X	X	X	
MW-123S/RW-123S	↓	1230	↓					↓				2	X							
MW-01S	8-20-19	1320	X					X				10	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	8-21-19	0800	Denise Wadin	8-21-19	0800
Denise Wadin	8-21-19	1356	[illegible]	8-21-19	13:56
[illegible]	8-21-19	1648			
			[illegible]	8-21-19	1648

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 2.7 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 257811

Group Number(s):

2059980

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/21/2019 16:48
Number of Packages:	1	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	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Ann-Marie Phillips (13 160) at 18:07 on 08/21/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT42-03	2.7	DT	Wet	Y	Loose	N

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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.

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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: September 08, 2019 06:11

Project: NRG PRGS

Account #: 08390
Group Number: 2060265
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-01S Grab Grab Groundwater	08/21/2019 09:00	1133373
MW-25/RW-25 Grab Grab Groundwater	08/21/2019 09:15	1133374
MW-05/RW-05 Grab Groundwater	08/21/2019 11:05	1133375
RW-05S Grab Groundwater	08/21/2019 12:10	1133376
MW-121 Grab Grab Groundwater	08/21/2019 12:45	1133377
MW-51/RW-51 Grab Grab Groundwater	08/21/2019 13:00	1133378
MW-08S Grab Grab Groundwater	08/21/2019 13:15	1133379
MW-117S Grab Groundwater	08/21/2019 14:15	1133380
TW-06 Grab Groundwater	08/21/2019 11:15	1133381
TW-03 Grab Groundwater	08/21/2019 13:00	1133382
TW-05 Grab Groundwater	08/21/2019 13:50	1133383

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-01S Grab Grab Groundwater NRG - PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 09:00

GES, Inc.
ELLE Sample #: RW 1133373
ELLE Group #: 2060265
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.	39,000	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	192390025A	08/30/2019 00:33	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 09:15

GES, Inc.
ELLE Sample #: RW 1133374
ELLE Group #: 2060265
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.	31,000	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	192390025A	08/30/2019 01:45	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:05

GES, Inc.
ELLE Sample #: RW 1133375
ELLE Group #: 2060265
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	6,300	60	20
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	3,800	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.74	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	224	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.	22.2	0.300	20
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	116	2.6	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	192390004A	08/28/2019 10:23	Johanna C Kennedy	20
12858	DRO micro-ext 8015B	SW-846 8015B	1	192390025A	08/30/2019 02:09	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192381404401	08/27/2019 21:44	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192381404401	08/26/2019 17:30	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	19242963109A	08/31/2019 04:03	Anna Campanella	100
00220	Nitrate Nitrogen	EPA 353.2	1	19247106102A	09/04/2019 14:43	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19234105103A	08/23/2019 00:38	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 21:18	Gregory Baldree	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:32	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 12:10

GES, Inc.
ELLE Sample #: RW 1133376
ELLE Group #: 2060265
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.	5,900	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	45.8	1.5	5
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	80.3	2.6	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	192390025A	08/30/2019 02:34	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19242963109A	08/31/2019 03:09	Anna Campanella	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 21:54	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 12:45

GES, Inc.
ELLE Sample #: RW 1133377
ELLE Group #: 2060265
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.	3,100	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	192390025A	08/30/2019 02:58	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:00

GES, Inc.
ELLE Sample #: RW 1133378
ELLE Group #: 2060265
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.	1,500	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	192390025A	08/30/2019 03:22	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:15

GES, Inc.
ELLE Sample #: RW 1133379
ELLE Group #: 2060265
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.	5,800	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	192390025A	08/30/2019 03:46	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 14:15

GES, Inc.
ELLE Sample #: RW 1133380
ELLE Group #: 2060265
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	89.5	6.0	20
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	78.8	2.6	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	192390025A	08/30/2019 04:10	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19245963117A	09/02/2019 21:29	Anna Campanella	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:05	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: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:15

GES, Inc.
ELLE Sample #: RW 1133381
ELLE Group #: 2060265
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	99	3.0	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.40	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00368	Nitrate Nitrogen The holding time was not met.		14797-55-8	N.D.	0.25	5
00228	Sulfate		14808-79-8	956	150	500
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	123	3.00	200
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	2.6	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	192390004A	08/28/2019 00:31	Johanna C Kennedy	1
07058	Manganese	SW-846 6010C	1	192351404403	08/30/2019 00:37	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192351404403	08/26/2019 07:45	Denise L Trimby	1
00368	Nitrate Nitrogen	EPA 300.0	1	19243720117A	08/31/2019 16:55	Samantha Faverio	5
00228	Sulfate	EPA 300.0	1	19243720117A	08/31/2019 17:13	Samantha Faverio	500
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 21:52	Gregory Baldree	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:39	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: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:00

GES, Inc.
ELLE Sample #: RW 1133382
ELLE Group #: 2060265
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	58	3.0	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	7.53	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	413	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	0.056	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	91.5	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	2.6	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	192390004A	08/28/2019 00:49	Johanna C Kennedy	1
07058	Manganese	SW-846 6010C	1	192381404401	08/27/2019 21:47	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192381404401	08/26/2019 17:30	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	19246135117A	09/05/2019 20:56	Samantha Faverio	100
00220	Nitrate Nitrogen	EPA 353.2	1	19247106102A	09/04/2019 14:44	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19234105103B	08/23/2019 00:40	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 21:33	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:20	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: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:50

GES, Inc.
ELLE Sample #: RW 1133383
ELLE Group #: 2060265
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	49	3.0	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	4.66	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	654	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	0.038 J	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	191	3.00	200
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	2.6	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	192390004A	08/28/2019 01:08	Johanna C Kennedy	1
07058	Manganese	SW-846 6010C	1	192351404403	08/30/2019 00:30	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192351404403	08/26/2019 07:45	Denise L Trimby	1
00228	Sulfate	EPA 300.0	1	19245963117A	09/02/2019 22:57	Anna Campanella	500
00220	Nitrate Nitrogen	EPA 353.2	1	19247106102A	09/04/2019 14:46	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19234105103B	08/23/2019 00:46	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 21:51	Gregory Baldree	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:52	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/08/2019 06:11

Group Number: 2060265

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: 192390004A	Sample number(s): 1133375,1133381-1133383	
Methane	N.D.	3.0
Batch number: 192390025A	Sample number(s): 1133373-1133380	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192351404403	Sample number(s): 1133381,1133383	
Manganese	N.D.	0.0011
Batch number: 192381404401	Sample number(s): 1133375,1133382	
Manganese	N.D.	0.0011
Batch number: 19234105103A	Sample number(s): 1133375	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19234105103B	Sample number(s): 1133382-1133383	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19240127101A	Sample number(s): 1133375,1133381-1133383	
Ferrous Iron	N.D.	0.0150
Batch number: 19242963109A	Sample number(s): 1133375-1133376	
Sulfate	N.D.	0.30
Batch number: 19243720117A	Sample number(s): 1133381	
Nitrate Nitrogen	N.D.	0.050
Sulfate	N.D.	0.30
Batch number: 19245963117A	Sample number(s): 1133380,1133383	
Sulfate	N.D.	0.30
Batch number: 19246135117A	Sample number(s): 1133382	
Sulfate	N.D.	0.30
Batch number: 19247106102A	Sample number(s): 1133375,1133382-1133383	
Nitrate Nitrogen	N.D.	0.040
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 19239007203A	Sample number(s): 1133375-1133376,1133380-1133383	
Total Alkalinity to pH 4.5	N.D.	2.6

*- 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: 09/08/2019 06:11

Group Number: 2060265

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: 192390004A	Sample number(s): 1133375,1133381-1133383								
Methane	59.83	55.99	59.83	56.46	94	94	85-115	1	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 192390025A	Sample number(s): 1133373-1133380								
DRO C10-C28	2692.24	2303.92	2702.42	2383.99	86	88	27-118	3	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 192351404403	Sample number(s): 1133381,1133383								
Manganese	0.500	0.507			101		90-112		
Batch number: 192381404401	Sample number(s): 1133375,1133382								
Manganese	0.500	0.519			104		90-112		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19234105103A	Sample number(s): 1133375								
Nitrite Nitrogen	0.700	0.749			107		90-110		
Batch number: 19234105103B	Sample number(s): 1133382-1133383								
Nitrite Nitrogen	0.700	0.749			107		90-110		
Batch number: 19240127101A	Sample number(s): 1133375,1133381-1133383								
Ferrous Iron	1.00	1.00			100		90-110		
Batch number: 19242963109A	Sample number(s): 1133375-1133376								
Sulfate	7.50	7.38			98		90-110		
Batch number: 19243720117A	Sample number(s): 1133381								
Nitrate Nitrogen	0.750	0.752			100		90-110		
Sulfate	7.50	7.64			102		90-110		
Batch number: 19245963117A	Sample number(s): 1133380,1133383								
Sulfate	7.50	7.23			96		90-110		
Batch number: 19246135117A	Sample number(s): 1133382								
Sulfate	7.50	7.06			94		90-110		
Batch number: 19247106102A	Sample number(s): 1133375,1133382-1133383								
Nitrate Nitrogen	2.50	2.49			100		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 19239007203A	Sample number(s): 1133375-1133376,1133380-1133383								
Total Alkalinity to pH 4.5	188	185.43			99		82-106		

*- 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: 09/08/2019 06:11

Group Number: 2060265

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: 19234105103B	Sample number(s): 1133382-1133383 UNSPK: 1133382									
Nitrite Nitrogen	0.0560	0.200	0.233			89*		90-110		
Batch number: 19242963109A	Sample number(s): 1133375-1133376 UNSPK: 1133376									
Sulfate	45.79	25	75.23			118*		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: 19234105103B	Sample number(s): 1133382-1133383 BKG: 1133382			
Nitrite Nitrogen	0.0560	0.0590	5 (1)	20
Batch number: 19242963109A	Sample number(s): 1133375-1133376 BKG: 1133376			
Sulfate	45.79	45.39	1	15

Surrogate Quality Control

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

Analysis Name: Methane
Batch number: 192390004A

	Propene
1133375	100
1133381	79
1133382	85
1133383	79
Blank	101
LCS	100
LCSD	100
Limits:	46-135

*- 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: 09/08/2019 06:11

Group Number: 2060265

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: 192390025A

	Orthoterphenyl
1133373	85
1133374	142*
1133375	96
1133376	65
1133377	108
1133378	106
1133379	112
1133380	77
Blank	98
LCS	94
LCSD	95
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 # 20600265 Sample # 1133373-83

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	Soil	Sediment	Potable Water	Ground Water	Surface Water	NPDES Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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	-	-/S	N	H	-	H					
MW-01S Grab	8-21-19	0900	X					X				2	X											
MW-25/RW25 Grab		0915										2	X											
MW-05/RW-05		1105										10	X	X	X	X	X	X	X					
RW-05S		1210										4	X	X				X	X (TP)					
MW-121 Grab		1245										2	X											
MW-51/RW-51 Grab		1300										2	X											
MW-08S Grab		1315										2	X											
RW-11TS		1415										4	X	X				X						
TW-06		1115										8		X	X	X	X	X	X					
TW-03	8-21-19	1300	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	8-22-19	0800	Denise Woodring	8-22-19	0800
Denise Woodring	8-22-19	1030	[illegible]	8/22/19	1030
[illegible]	8/22/19	1628	[illegible]	8-22-19	1628

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 0.6-2.5 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 8390 Group # 20160205 Sample # 1133373-03

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	Ground	Surface	Potable	NPDES	Soil	Water	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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	-	-/S	N	H	-	H	
TW-05	8-21-19	1350	X				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	8-22-19	0800	Denise Woodring	8-22-19	0800
Denise Woodring	8-22-19	1030	[illegible]	8/22/19	1030
[illegible]	8/22/19	1628	[illegible]	8-22-19	1628

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.6-2.5 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 257978

Group Number(s):

Client: Groundwater and Environmental Servic

~~305~~ 20602605
APB3160
8/22/19
(3)

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/22/2019 16:28
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

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

Unpacked by Cory Jeremiah (10 469) at 17:42 on 08/22/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT146	2.5	DT	Wet	Y	Loose	N
2	Water	DT146	0.6	DT	Wet	Y	Loose	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: September 09, 2019 10:05

Project: NRG PRGS

Account #: 08390
Group Number: 2060266
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-51 Grab Groundwater	08/21/2019 09:40	1133384
MW-51S Grab Groundwater	08/21/2019 10:45	1133385
MW-10S Grab Groundwater	08/21/2019 12:35	1133386
RW-116S Grab Groundwater	08/21/2019 13:50	1133387

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-51 Grab Groundwater NRG - PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 09:40

GES, Inc.
ELLE Sample #: RW 1133384
ELLE Group #: 2060266
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	30	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	730	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	31.7	0.0055	5
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	556	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	0.019 J	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron		n.a.	46.0	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	39.8	2.6	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	192390004A	08/28/2019 01:45	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	192390025A	08/30/2019 04:34	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192381404401	08/28/2019 22:24	Cindy M Gehman	5
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192381404401	08/26/2019 17:30	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	19245963117A	09/02/2019 23:14	Anna Campanella	500
00220	Nitrate Nitrogen	EPA 353.2	1	19247106102A	09/04/2019 14:47	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19234105103A	08/23/2019 00:39	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 21:31	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:26	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: RW 1133385
ELLE Group #: 2060266
Matrix: Groundwater

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 10:45

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	1,200	30	10
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	7,300	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	2.83	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	192	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.	60.1	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	151	2.6	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	192390004A	08/28/2019 10:42	Johanna C Kennedy	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	192390025A	08/30/2019 04:58	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192381404401	08/27/2019 22:00	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192381404401	08/26/2019 17:30	Barbara A Kane	1
00228	Sulfate	EPA 300.0	1	19245963117B	09/02/2019 23:32	Anna Campanella	100
00220	Nitrate Nitrogen	EPA 353.2	2	19249106101A	09/08/2019 11:44	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19234105103B	08/23/2019 00:44	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 21:32	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:17	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: RW 1133386
ELLE Group #: 2060266
Matrix: Groundwater

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 12:35

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	25	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	11,000	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	3.92	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	261	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.	48.4	0.750	50
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	45.9	2.6	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	192390004A	08/28/2019 02:22	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	192390025A	08/30/2019 05:22	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192390025A	08/28/2019 06:55	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192351404403	08/30/2019 00:34	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192351404403	08/26/2019 07:45	Denise L Trimby	1
00228	Sulfate	EPA 300.0	1	19245963117B	09/03/2019 00:24	Anna Campanella	100
00220	Nitrate Nitrogen	EPA 353.2	1	19249106101A	09/06/2019 20:06	Gregory Baldree	1
00219	Nitrite Nitrogen	EPA 353.2	1	19234105103B	08/23/2019 00:47	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19240127101A	08/28/2019 21:30	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:11	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: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:50

GES, Inc.
ELLE Sample #: RW 1133387
ELLE Group #: 2060266
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.	4,100	53	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	134	6.0	20
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	36.5	2.6	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	192400025A	08/30/2019 07:22	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
00228	Sulfate	EPA 300.0	1	19245963117B	09/03/2019 00:42	Anna Campanella	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 21:59	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/09/2019 10:05

Group Number: 2060266

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: 192390004A	Sample number(s): 1133384-1133386	
Methane	N.D.	3.0
Batch number: 192390025A	Sample number(s): 1133384-1133386	
DRO C10-C28	N.D.	53
Batch number: 192400025A	Sample number(s): 1133387	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192351404403	Sample number(s): 1133386	
Manganese	N.D.	0.0011
Batch number: 192381404401	Sample number(s): 1133384-1133385	
Manganese	N.D.	0.0011
Batch number: 19234105103A	Sample number(s): 1133384	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19234105103B	Sample number(s): 1133385-1133386	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19240127101A	Sample number(s): 1133384-1133386	
Ferrous Iron	N.D.	0.0150
Batch number: 19245963117A	Sample number(s): 1133384	
Sulfate	N.D.	0.30
Batch number: 19245963117B	Sample number(s): 1133385-1133387	
Sulfate	N.D.	0.30
Batch number: 19247106102A	Sample number(s): 1133384	
Nitrate Nitrogen	N.D.	0.040
Batch number: 19249106101A	Sample number(s): 1133385-1133386	
Nitrate Nitrogen	N.D.	0.040
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 19239007203A	Sample number(s): 1133384-1133387	
Total Alkalinity to pH 4.5	N.D.	2.6

*- 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: 09/09/2019 10:05

Group Number: 2060266

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: 192390004A	Sample number(s): 1133384-1133386								
Methane	59.83	55.99	59.83	56.46	94	94	85-115	1	20
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 192390025A	Sample number(s): 1133384-1133386								
DRO C10-C28	2692.24	2303.92	2702.42	2383.99	86	88	27-118	3	20
Batch number: 192400025A	Sample number(s): 1133387								
DRO C10-C28	2720.06	2388.49			88		27-118		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 192351404403	Sample number(s): 1133386								
Manganese	0.500	0.507			101		90-112		
Batch number: 192381404401	Sample number(s): 1133384-1133385								
Manganese	0.500	0.519			104		90-112		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19234105103A	Sample number(s): 1133384								
Nitrite Nitrogen	0.700	0.749			107		90-110		
Batch number: 19234105103B	Sample number(s): 1133385-1133386								
Nitrite Nitrogen	0.700	0.749			107		90-110		
Batch number: 19240127101A	Sample number(s): 1133384-1133386								
Ferrous Iron	1.00	1.00			100		90-110		
Batch number: 19245963117A	Sample number(s): 1133384								
Sulfate	7.50	7.23			96		90-110		
Batch number: 19245963117B	Sample number(s): 1133385-1133387								
Sulfate	7.50	7.23			96		90-110		
Batch number: 19247106102A	Sample number(s): 1133384								
Nitrate Nitrogen	2.50	2.49			100		90-110		
Batch number: 19249106101A	Sample number(s): 1133385-1133386								
Nitrate Nitrogen	2.50	2.51			100		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 19239007203A	Sample number(s): 1133384-1133387								
Total Alkalinity to pH 4.5	188	185.43			99		82-106		

*- 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: 09/09/2019 10:05

Group Number: 2060266

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: 19245963117B	Sample number(s): 1133385-1133387 UNSPK: 1133385									
Sulfate	191.96	500	782.43			118*		90-110		
Batch number: 19249106101A	Sample number(s): 1133385-1133386 UNSPK: 1133385									
Nitrate Nitrogen	N.D.	1.00	1.20			120*		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: 19245963117B	Sample number(s): 1133385-1133387 BKG: 1133385			
Sulfate	191.96	188.89	2 (1)	15
Batch number: 19249106101A	Sample number(s): 1133385-1133386 BKG: 1133385			
Nitrate Nitrogen	N.D.	N.D.	0 (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: Methane
Batch number: 192390004A

	Propene
1133384	79
1133385	91
1133386	83
Blank	101
LCS	100
LCSD	100
Limits:	46-135

Analysis Name: DRO micro-ext 8015B
Batch number: 192390025A

*- 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: 09/09/2019 10:05

Group Number: 2060266

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: 192390025A

	Orthoterphenyl
1133384	111
1133385	93
1133386	63
Blank	98
LCS	94
LCSD	95
Limits:	62-128

Analysis Name: DRO micro-ext 8015B
Batch number: 192400025A

	Orthoterphenyl
1133387	92
Blank	103
LCS	95
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 # 20602606 Sample # 1133384-B7

| | | |

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Sample Administration Receipt Documentation Log

Doc Log ID: 257978

Group Number(s):

Client: Groundwater and Environmental Servic

20600266

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/22/2019 16:28
Number of Packages:	2	Number of Projects:	2
State/Province of Origin:	VA		

Arrival Condition Summary

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

Unpacked by Cory Jeremiah (10 469) at 17:42 on 08/22/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT146	2.5	DT	Wet	Y	Loose	N
2	Water	DT146	0.6	DT	Wet	Y	Loose	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.

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.

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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: September 11, 2019 04:49

Project: NRG PRGS

Account #: 08390
Group Number: 2060487
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-72 Grab Groundwater	08/22/2019 10:27	1134364
MW-72S Grab Groundwater	08/22/2019 11:20	1134365
MW-106 Grab Groundwater	08/22/2019 12:31	1134366

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-72 Grab Groundwater NRG - PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 10:27

GES, Inc.
ELLE Sample #: RW 1134364
ELLE Group #: 2060487
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	750	30	10
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	2,300	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	12.7	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	922	150	500
		EPA 353.2		**mg/l**	**mg/l**	
00220	Nitrate Nitrogen		14797-55-8	0.044 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[1]		n.a.	28.9	0.300	20
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	2.6	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	192420047A	08/31/2019 13:34	Johanna C Kennedy	10
12858	DRO micro-ext 8015B	SW-846 8015B	1	192400025A	08/30/2019 12:59	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192411404402	09/05/2019 08:16	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192411404402	08/31/2019 13:05	JoElla L Rice	1
00228	Sulfate	EPA 300.0	2	19250963115B	09/08/2019 03:33	Anna Campanella	500
00220	Nitrate Nitrogen	EPA 353.2	1	19253106101B	09/10/2019 11:44	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19235105102B	08/23/2019 22:58	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19253127101A	09/10/2019 22:23	Gregory Baldree	20
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 23:14	Jeremy L Bolf	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 11:20

GES, Inc.
ELLE Sample #: RW 1134365
ELLE Group #: 2060487
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	2,100	150	50
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	1,700	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	3.76	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	621	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	0.020 J	0.015	1
		SM 3500-Fe B-2011		**mg/l**	**mg/l**	
14855	Ferrous Iron[1]		n.a.	49.3	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.	2.6	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	192420047A	08/31/2019 17:02	Johanna C Kennedy	50
12858	DRO micro-ext 8015B	SW-846 8015B	1	192400025A	08/30/2019 13:23	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192411404402	09/05/2019 07:57	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192411404402	08/31/2019 13:05	JoElla L Rice	1
00228	Sulfate	EPA 300.0	2	19250963115B	09/08/2019 03:46	Anna Campanella	500
00220	Nitrate Nitrogen	EPA 353.2	1	19253106102A	09/10/2019 13:17	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19235105102B	08/23/2019 22:55	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19253127101A	09/10/2019 22:32	Gregory Baldree	50
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:55	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: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 12:31

GES, Inc.
ELLE Sample #: RW 1134366
ELLE Group #: 2060487
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	140	3.0	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	750	53	1
Metals		**SW-846 6010C**		**mg/l**	**mg/l**	
07058	Manganese		7439-96-5	3.32	0.0011	1
Wet Chemistry		**EPA 300.0**		**mg/l**	**mg/l**	
00228	Sulfate		14808-79-8	1,340	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[1]		n.a.	155	3.00	200
		SM 2320 B-2011		**mg/l as CaCO3**	**mg/l as CaCO3**	
12150	Total Alkalinity to pH 4.5		n.a.	N.D.	2.6	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane	RSKSOP-175 modified	1	192420047A	08/30/2019 22:56	Johanna C Kennedy	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	192400025A	08/30/2019 13:47	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
07058	Manganese	SW-846 6010C	1	192401404407	08/30/2019 15:06	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192401404407	08/29/2019 03:57	James L Mertz	1
00228	Sulfate	EPA 300.0	2	19250963115B	09/08/2019 04:00	Anna Campanella	500
00220	Nitrate Nitrogen	EPA 353.2	1	19253106102A	09/10/2019 13:18	Ashlynn M Cornelius	1
00219	Nitrite Nitrogen	EPA 353.2	1	19235105102B	08/23/2019 22:53	Jonathan Saul	1
14855	Ferrous Iron	SM 3500-Fe B-2011	1	19253127101A	09/11/2019 00:03	Gregory Baldree	200
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19239007203A	08/27/2019 22:36	Jeremy L Bolf	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/11/2019 04:49

Group Number: 2060487

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: 192420047A	Sample number(s): 1134364-1134366	
Methane	13	3.0
Batch number: 192400025A	Sample number(s): 1134364-1134366	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192401404407	Sample number(s): 1134366	
Manganese	0.0012 J	0.0011
Batch number: 192411404402	Sample number(s): 1134364-1134365	
Manganese	N.D.	0.0011
Batch number: 19235105102B	Sample number(s): 1134364-1134366	
Nitrite Nitrogen	N.D.	0.015
Batch number: 19250963115B	Sample number(s): 1134364-1134366	
Sulfate	N.D.	0.30
Batch number: 19253106101B	Sample number(s): 1134364	
Nitrate Nitrogen	N.D.	0.040
Batch number: 19253106102A	Sample number(s): 1134365-1134366	
Nitrate Nitrogen	N.D.	0.040
Batch number: 19253127101A	Sample number(s): 1134364-1134366	
Ferrous Iron	N.D.	0.0150
	mg/l as CaCO3	mg/l as CaCO3
Batch number: 19239007203A	Sample number(s): 1134364-1134366	
Total Alkalinity to pH 4.5	N.D.	2.6

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: 192420047A	Sample number(s): 1134364-1134366								
Methane	59.83	58.26	59.83	55.54	97	93	85-115	5	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: 09/11/2019 04:49

Group Number: 2060487

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 192400025A	Sample number(s): 1134364-1134366								
DRO C10-C28	2720.06	2388.49			88		27-118		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 192401404407	Sample number(s): 1134366								
Manganese	0.500	0.509			102		90-112		
Batch number: 192411404402	Sample number(s): 1134364-1134365								
Manganese	0.500	0.499			100		90-112		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19235105102B	Sample number(s): 1134364-1134366								
Nitrite Nitrogen	0.700	0.723			103		90-110		
Batch number: 19250963115B	Sample number(s): 1134364-1134366								
Sulfate	7.50	7.27			97		90-110		
Batch number: 19253106101B	Sample number(s): 1134364								
Nitrate Nitrogen	2.50	2.60			104		90-110		
Batch number: 19253106102A	Sample number(s): 1134365-1134366								
Nitrate Nitrogen	2.50	2.66			106		90-110		
Batch number: 19253127101A	Sample number(s): 1134364-1134366								
Ferrous Iron	1.00	0.981			98		90-110		
	mg/l as CaCO3	**mg/l as CaCO3**	**mg/l as CaCO3**	**mg/l as CaCO3**					
Batch number: 19239007203A	Sample number(s): 1134364-1134366								
Total Alkalinity to pH 4.5	188	185.43			99		82-106		

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: 19253127101A	Sample number(s): 1134364-1134366 UNSPK: 1134364									
Ferrous Iron	28.87	1.00	30.45	1.00	29.98	158 (2)	111 (2)	90-110	2	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.

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/11/2019 04:49

Group Number: 2060487

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: 19253127101A	Sample number(s): 1134364-1134366 BKG: 1134364			
Ferrous Iron	28.87	28.97	0	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: DRO micro-ext 8015B
Batch number: 192400025A

	Orthoterphenyl
1134364	112
1134365	115
1134366	108
Blank	103
LCS	95
Limits:	62-128

Analysis Name: Methane
Batch number: 192420047A

	Propene
1134364	92
1134365	91
1134366	87
Blank	99
LCS	100
LCSD	97
Limits:	46-135

*- 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 # 2060487 Sample # 1134364-66

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 Kym	PWSID #:
Phone #: 800-220-3606 x 3704	Quote #:
State where sample(s) were collected: 1400 North Royal St, Alexandria, VA	

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

Analyses Requested — Preservation Codes

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

Sample Identification	Collection Date	Collection Time	Grab	Composite	Sediment	Soil	Ground	Surface	Potable	NPDES	Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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
													H	-	-/S	N	H	-	H	
MW-72	8/22/19	1027	X				X					10	X	X	X	X	X	X	X	
MW-72S	8/22/19	1120	X				X					10	X	X	X	X	X	X	X	
MW-106	8/22/19	1231	X				X					10	X	X	X	X	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
[signature]	8/22/19	1445	Denise Woodring	8-22-19	1500
Denise Woodring	8-23-19	1407	[signature]	8-23-19	14:07
[signature]	8-23-19	1753			
			[signature]	8-23-19	1753

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 258189

Group Number(s): 2060487

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/23/2019 17:53
Number of Packages:	1	Number of Projects:	1
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	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Darian Jaynes (29 952) at 18:25 on 08/23/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT146	1.6	DT	Wet	Y	Loose	N

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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.

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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: September 03, 2019 09:26

Project: NRG PRGS

Account #: 08390
Group Number: 2060488
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-05S Grab Grab Groundwater	08/22/2019 10:00	1134367
TW-06 Grab Grab Groundwater	08/22/2019 11:20	1134368
TW-05 Grab Grab Groundwater	08/22/2019 11:40	1134369

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-05S Grab Grab Groundwater NRG - PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 10:00

GES, Inc.
ELLE Sample #: RW 1134367
ELLE Group #: 2060488
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.	3,700	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	192400025A	08/30/2019 14:10	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

GES, Inc.
ELLE Sample #: RW 1134368
ELLE Group #: 2060488
Matrix: Groundwater

Submittal Date/Time: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 11:20

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.	1,100	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	192400025A	08/30/2019 14:35	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1

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Analysis Report

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

Project Name: **NRG PRGS**

Submittal Date/Time: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 11:40

GES, Inc.
ELLE Sample #: RW 1134369
ELLE Group #: 2060488
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.	1,100	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	192400025A	08/30/2019 14:59	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/03/2019 09:26

Group Number: 2060488

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

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

Method Blank

Analysis Name	Result ug/l	MDL ug/l
Batch number: 192400025A	Sample number(s): 1134367-1134369	
DRO C10-C28	N.D.	53

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: 192400025A	Sample number(s): 1134367-1134369								
DRO C10-C28	2720.06	2388.49			88		27-118		

Surrogate Quality Control

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

Analysis Name: DRO micro-ext 8015B
Batch number: 192400025A

	Orthoterphenyl
1134367	81
1134368	102
1134369	107
Blank	103
LCS	95
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 # 20600488 Sample # 11343607-609

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: Sediment	Matrix: Ground	Matrix: Surface	Matrix: Potable	Matrix: NPDES	Matrix: Soil	Matrix: Water	Matrix: Other:	Total # of Containers	TPH-DRO C-10-28 (SW-846 8015B)	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	-	-/S	N	H	-	H	
RW-05S Grab	8-22-19	1000	X								X		2	X							
TW-06 Grab	8-22-19	1120	X								X		2	X							
TW-05 Grab	8-22-19	1140	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	8-23-19	0800	Denise Woodring	8-23-19	0800
Denise Woodring	8-23-19	1407	[illegible]	8-23-19	1407
[illegible]	8-23-19	1753 ~~1553~~			
			[illegible]	8-23-19	1753

Relinquished by Commercial Carrier:

UPS ____ FedEx ____ Other ____

Temperature upon receipt 1.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 258189

Group Number(s): 2060488

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/23/2019 17:53
Number of Packages:	1	Number of Projects:	1
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	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Darian Jaynes (29 952) at 18:25 on 08/23/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT146	1.6	DT	Wet	Y	Loose	N

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Explanation of Symbols and Abbreviations

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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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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.

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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: September 04, 2019 13:02

Project: NRG PRGS

Account #: 09811
Group Number: 2060366
SDG: PRG22
PO Number: MEM1108
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#
TW07 Grab Groundwater	08/20/2019 12:10	1133806
TW04 Grab Groundwater	08/20/2019 14:15	1133807
TW02 Grab Groundwater	08/20/2019 15:35	1133808
TW14 Grab Groundwater	08/21/2019 09:10	1133809
TW06 Grab Groundwater	08/21/2019 11:15	1133810
TW06 MS Grab Groundwater	08/21/2019 11:15	1133811
TW06 MSD Grab Groundwater	08/21/2019 11:15	1133812
TW03 Grab Groundwater	08/21/2019 13:00	1133813
TW05 Grab Groundwater	08/21/2019 13:50	1133814
DUP20190820 Grab Groundwater	08/20/2019	1133815
EB20190820 Grab Water	08/20/2019 16:20	1133816
TB19226 Water	08/20/2019	1133817

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

Sample Description: **TW07 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 12:10
SDG#: PRG22-01

GeoSyntec Consultants
ELLE Sample #: WW 1133806
ELLE Group #: 2060366
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.	0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	N.D.	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.04	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	0.09 J	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.04	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.04	0.1	1
10262	Pyrene[1]	129-00-0	N.D.	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

The recovery for the sample surrogate(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: **TW07 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 12:10
SDG#: PRG22-01

GeoSyntec Consultants
ELLE Sample #: WW 1133806
ELLE Group #: 2060366
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.	84	J	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	N.D.		1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	F192441AA	09/01/2019 19:05	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F192441AA	09/01/2019 19:04	Kevin A Sposito	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 11:08	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/31/2019 00:40	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/31/2019 00:39	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 07:46	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19241807902A	08/29/2019 16:12	Tesfaye Dabsu	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW04 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 14:15
SDG#: PRG22-02

GeoSyntec Consultants
ELLE Sample #: WW 1133807
ELLE Group #: 2060366
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.	0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	0.4	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.04	0.1	1
10262	Anthracene[1]	120-12-7	0.08 J	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.3	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	0.2	0.04	0.1	1
10262	Fluorene[1]	86-73-7	0.3	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	0.07 J	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	0.07 J	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	0.1 J	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	0.06 J	0.04	0.1	1
10262	Pyrene[1]	129-00-0	0.09 J	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	11 J	11	50	1

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW04 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 14:15
SDG#: PRG22-02

GeoSyntec Consultants
ELLE Sample #: WW 1133807
ELLE Group #: 2060366
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.	410	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	2.8 J	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	F192441AA	09/01/2019 19:27	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F192441AA	09/01/2019 19:26	Kevin A Sposito	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 11:50	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/31/2019 01:04	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/31/2019 01:03	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 08:11	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807902A	08/30/2019 15:08	Tesfaye Dabsu	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW02 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 15:35
SDG#: PRG22-03

GeoSyntec Consultants
ELLE Sample #: WW 1133808
ELLE Group #: 2060366
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.	0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	0.1	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.04	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	0.1	0.04	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.04	0.1	1
10262	Pyrene[1]	129-00-0	0.1	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	N.D.	11	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW02 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 15:35
SDG#: PRG22-03

GeoSyntec Consultants
ELLE Sample #: WW 1133808
ELLE Group #: 2060366
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)[1]	n.a.	1.5 J	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	F192441AA	09/01/2019 19:49	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F192441AA	09/01/2019 19:48	Kevin A Sposito	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 12:32	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/31/2019 01:27	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/31/2019 01:26	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 08:35	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:52	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW14 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 09:10
SDG#: PRG22-04

GeoSyntec Consultants
ELLE Sample #: WW 1133809
ELLE Group #: 2060366
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	2	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.	0.8	3	1
	Preservation requirements were not met. A preserved vial was submitted for analysis. However, the pH at the time of analysis was 7.					
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	93	11	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	2,100	53	100	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	D192461AA	09/03/2019 11:30	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D192461AA	09/03/2019 11:29	Anita M Dale	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/31/2019 02:36	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/31/2019 02:35	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 08:59	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW06 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:15
SDG#: PRG22-05BKG

GeoSyntec Consultants
ELLE Sample #: WW 1133810
ELLE Group #: 2060366
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	0.2	J	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.		0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	1		0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	0.1		0.04	0.1	1
10262	Anthracene[1]	120-12-7	0.1		0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.		0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.		0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.		0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.		0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.		0.04	0.1	1
10262	Biphenyl[1]	92-52-4	0.4		0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.		0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.		0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.2		0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	0.1		0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	0.07	J	0.04	0.1	1
10262	Fluorene[1]	86-73-7	0.7		0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.		0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.		0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	0.09	J	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.		0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.		0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.		0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	0.2		0.04	0.1	1
10262	Pyrene[1]	129-00-0	0.2		0.04	0.1	1
Reporting limits were raised due to limited sample volume.							
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	19	J	11	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW06 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:15
SDG#: PRG22-05BKG

GeoSyntec Consultants
ELLE Sample #: WW 1133810
ELLE Group #: 2060366
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.	970	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	N.D.	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	D192461AA	09/03/2019 11:54	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D192461AA	09/03/2019 11:53	Anita M Dale	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 09:01	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/30/2019 19:40	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/30/2019 19:39	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 09:23	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:52	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW06 MS Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:15
SDG#: PRG22-05MS

GeoSyntec Consultants
ELLE Sample #: WW 1133811
ELLE Group #: 2060366
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	22	0.2	1	1
10945	t-Butyl alcohol	75-65-0	200	10	25	1
10945	1,2-Dibromoethane	106-93-4	20	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	21	2	5	1
10945	Ethylbenzene	100-41-4	22	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	21	0.2	1	1
10945	Toluene	108-88-3	22	0.2	1	1
10945	Xylene (Total)	1330-20-7	65	0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	2	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	1	0.04	0.1	1
10262	Anthracene[1]	120-12-7	1	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	2	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	1	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	1	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	1	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	1	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	1	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	2	0.04	0.1	1
10262	Chrysene[1]	218-01-9	1	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	1	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	1	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	1	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	1	0.04	0.1	1
10262	Fluorene[1]	86-73-7	2	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	2	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	1	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	1	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	2	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	1	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	2	0.04	0.1	1
10262	Pyrene[1]	129-00-0	2	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,200	11	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW06 MS Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:15
SDG#: PRG22-05MS

GeoSyntec Consultants
ELLE Sample #: WW 1133811
ELLE Group #: 2060366
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.	3,400	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	44.0	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	D192461AA	09/03/2019 12:18	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D192461AA	09/03/2019 12:17	Anita M Dale	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 09:44	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/30/2019 20:03	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/30/2019 20:02	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 09:47	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:52	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW06 MSD Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:15
SDG#: PRG22-05MSD

GeoSyntec Consultants
ELLE Sample #: WW 1133812
ELLE Group #: 2060366
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	20	0.2	1	1
10945	t-Butyl alcohol	75-65-0	190	10	25	1
10945	1,2-Dibromoethane	106-93-4	18	0.3	1	1
10945	1,2-Dichloroethane	107-06-2	19	2	5	1
10945	Ethylbenzene	100-41-4	20	0.2	1	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	19	0.2	1	1
10945	Toluene	108-88-3	20	0.2	1	1
10945	Xylene (Total)	1330-20-7	60	0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	3	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	2	0.04	0.1	1
10262	Anthracene[1]	120-12-7	2	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	2	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	1	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	2	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	2	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	2	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	2	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	2	0.04	0.1	1
10262	Chrysene[1]	218-01-9	2	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	2	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	1	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	2	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	2	0.04	0.1	1
10262	Fluorene[1]	86-73-7	2	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	2	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	2	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	2	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	2	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	2	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	2	0.04	0.1	1
10262	Pyrene[1]	129-00-0	2	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	1,200	11	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW06 MSD Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 11:15
SDG#: PRG22-05MSD

GeoSyntec Consultants
ELLE Sample #: WW 1133812
ELLE Group #: 2060366
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.	3,500	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	48.8	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	D192461AA	09/03/2019 12:42	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D192461AA	09/03/2019 12:41	Anita M Dale	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 10:26	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/30/2019 20:26	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/30/2019 20:25	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 10:11	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:52	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW03 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:00
SDG#: PRG22-06

GeoSyntec Consultants
ELLE Sample #: WW 1133813
ELLE Group #: 2060366
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.		0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**		**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	N.D.		0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.		0.04	0.1	1
10262	Anthracene[1]	120-12-7	0.05	J	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.		0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.		0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.		0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.		0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.		0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.		0.04	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.		0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.		0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.		0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.05	J	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	0.1		0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.		0.04	0.1	1
10262	Fluorene[1]	86-73-7	0.1		0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.		0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.		0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.		0.04	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.		0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.		0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.		0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.		0.04	0.1	1
10262	Pyrene[1]	129-00-0	0.05	J	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

The recovery for the sample surrogate(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.	12	J	11	50	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW03 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:00
SDG#: PRG22-06

GeoSyntec Consultants
ELLE Sample #: WW 1133813
ELLE Group #: 2060366
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.	130	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	N.D.	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	D192461AA	09/03/2019 13:06	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D192461AA	09/03/2019 13:05	Anita M Dale	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 13:14	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/31/2019 02:59	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/31/2019 02:58	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 10:35	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:52	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **TW05 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:50
SDG#: PRG22-07

GeoSyntec Consultants
ELLE Sample #: WW 1133814
ELLE Group #: 2060366
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.	0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	0.9	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.04	0.1	1
10262	Anthracene[1]	120-12-7	0.1	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	0.6	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	0.1	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	0.1	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	0.06 J	0.04	0.1	1
10262	Fluorene[1]	86-73-7	0.5	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	4	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	0.6	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	1	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	0.3	0.04	0.1	1
10262	Pyrene[1]	129-00-0	0.2	0.04	0.1	1
	Reporting limits were raised due to limited sample volume.					
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	
01635	TPH-GRO water C6-C10	n.a.	20 J	11	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	**ug/l**	

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TW05 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/21/2019 13:50
SDG#: PRG22-07

GeoSyntec Consultants
ELLE Sample #: WW 1133814
ELLE Group #: 2060366
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.	1,400	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**	**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	N.D.	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	D192461AA	09/03/2019 13:30	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D192461AA	09/03/2019 13:29	Anita M Dale	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 13:57	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/31/2019 03:22	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/31/2019 03:21	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 10:59	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:52	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **DUP20190820 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019
SDG#: PRG22-08FD

GeoSyntec Consultants
ELLE Sample #: WW 1133815
ELLE Group #: 2060366
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.	0.8	3	1
GC/MS Semivolatiles	**SW-846 8270C SIM Modified**		**ug/l**	**ug/l**	**ug/l**	
10262	Acenaphthene[1]	83-32-9	N.D.	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.04	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	0.08 J	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.04	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.04	0.1	1
10262	Pyrene[1]	129-00-0	N.D.	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

The recovery for the sample surrogate(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: **DUP20190820 Grab Groundwater NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019
SDG#: PRG22-08FD

GeoSyntec Consultants
ELLE Sample #: WW 1133815
ELLE Group #: 2060366
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.	89	J	53	100	1
Wet Chemistry	**EPA 1664B**		**mg/l**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)[1]	n.a.	2.4	J	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	F192441AA	09/01/2019 20:11	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F192441AA	09/01/2019 20:10	Kevin A Sposito	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 14:39	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/31/2019 03:46	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/31/2019 03:45	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 11:23	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:52	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

Sample Description: **EB20190820 Grab Water NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 16:20
SDG#: PRG22-09EB

GeoSyntec Consultants
ELLE Sample #: WW 1133816
ELLE Group #: 2060366
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[1]	83-32-9	N.D.	0.04	0.1	1
10262	Acenaphthylene[1]	208-96-8	N.D.	0.04	0.1	1
10262	Anthracene[1]	120-12-7	N.D.	0.04	0.1	1
10262	Benzo(a)anthracene[1]	56-55-3	N.D.	0.04	0.1	1
10262	Benzo(a)pyrene	50-32-8	N.D.	0.04	0.1	1
10262	Benzo(b)fluoranthene[1]	205-99-2	N.D.	0.04	0.1	1
10262	Benzo(e)pyrene[1]	192-97-2	N.D.	0.04	0.1	1
10262	Benzo(g,h,i)perylene[1]	191-24-2	N.D.	0.04	0.1	1
10262	Benzo(k)fluoranthene[1]	207-08-9	N.D.	0.04	0.1	1
10262	Biphenyl[1]	92-52-4	N.D.	0.04	0.1	1
10262	Chrysene[1]	218-01-9	N.D.	0.04	0.1	1
10262	Dibenz(a,h)anthracene[1]	53-70-3	N.D.	0.04	0.1	1
10262	Dibenzofuran[1]	132-64-9	N.D.	0.04	0.1	1
10262	Dibenzothiophene[1]	132-65-0	N.D.	0.04	0.1	1
10262	Fluoranthene[1]	206-44-0	N.D.	0.04	0.1	1
10262	Fluorene[1]	86-73-7	N.D.	0.04	0.1	1
10262	Indeno(1,2,3-cd)pyrene[1]	193-39-5	N.D.	0.04	0.1	1
10262	1-Methylnaphthalene[1]	90-12-0	N.D.	0.04	0.1	1
10262	2-Methylnaphthalene[1]	91-57-6	N.D.	0.04	0.1	1
10262	Naphthalene[1]	91-20-3	N.D.	0.04	0.1	1
10262	Naphthobenzothiophene[1]	224-10-2	N.D.	0.04	0.1	1
10262	Perylene[1]	198-55-0	N.D.	0.04	0.1	1
10262	Phenanthrene[1]	85-01-8	N.D.	0.04	0.1	1
10262	Pyrene[1]	129-00-0	N.D.	0.04	0.1	1

Reporting limits were raised due to limited sample volume.

The recovery for the sample surrogate(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: **EB20190820 Grab Water NRG PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019 16:20
SDG#: PRG22-09EB

GeoSyntec Consultants
ELLE Sample #: WW 1133816
ELLE Group #: 2060366
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)[1]	n.a.	1.8 J	1.4	5.0	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	F192441AA	09/01/2019 15:24	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F192441AA	09/01/2019 15:23	Kevin A Sposito	1
10262	Alkyl PAHs in Water by GC/MS	SW-846 8270C SIM Modified	1	19235WAQ026	08/26/2019 15:21	Joseph M Gambler	1
11012	Alkyl PAH Extract	SW-846 3510C	1	19235WAQ026	08/25/2019 13:13	Christine E Gleim	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/30/2019 18:54	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/30/2019 18:53	Jeremy C Giffin	1
12858	DRO Microextraction Master	SW-846 8015B	1	192400025A	08/30/2019 12:35	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664B	1	19242807903A	08/30/2019 17:53	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: **TB19226 Water**
NRG PRGS

Project Name: **NRG PRGS**

Submittal Date/Time: 08/22/2019 16:28
Collection Date/Time: 08/20/2019
SDG#: PRG22-10TB

GeoSyntec Consultants
ELLE Sample #: WW 1133817
ELLE Group #: 2060366
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.	0.8	3	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	F192441AA	09/01/2019 15:46	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F192441AA	09/01/2019 15:45	Kevin A Sposito	1
01635	TPH-GRO water C6-C10	SW-846 8015B	1	19241A20A	08/30/2019 19:17	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	19241A20A	08/30/2019 19:16	Jeremy C Giffin	1

*=This limit was used in the evaluation of the final result

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Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 09/04/2019 13:02

Group Number: 2060366

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: D192461AA	Sample number(s): 1133809-1133814		
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.	0.8	3
Batch number: F192441AA	Sample number(s): 1133806-1133808,1133815-1133817		
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.	0.8	3
Batch number: 19235WAQ026	Sample number(s): 1133806-1133808,1133810-1133816		
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

*- 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: 09/04/2019 13:02

Group Number: 2060366

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
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: 19241A20A	Sample number(s): 1133806-1133817		
TPH-GRO water C6-C10	N.D.	11	50
Batch number: 192400025A	Sample number(s): 1133806-1133816		
DRO C10-C28	N.D.	53	100
	mg/l	mg/l	mg/l
Batch number: 19241807902A	Sample number(s): 1133806		
HEM (oil & grease)	N.D.	1.4	5.0
Batch number: 19242807902A	Sample number(s): 1133807		
HEM (oil & grease)	N.D.	1.4	5.0
Batch number: 19242807903A	Sample number(s): 1133808,1133810-1133816		
HEM (oil & grease)	N.D.	1.4	5.0

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: D192461AA	Sample number(s): 1133809-1133814								
Benzene	20	20.67			103		80-120		
t-Butyl alcohol	200	197.53			99		60-130		
1,2-Dibromoethane	20	18.78			94		77-120		
1,2-Dichloroethane	20	19.81			99		73-124		
Ethylbenzene	20	19.86			99		80-120		
Methyl Tertiary Butyl Ether	20	20.39			102		69-122		
Toluene	20	20.07			100		80-120		
Xylene (Total)	60	59.56			99		80-120		
Batch number: F192441AA	Sample number(s): 1133806-1133808,1133815-1133817								
Benzene	20	19.54	20	18.79	98	94	80-120	4	30
t-Butyl alcohol	200	205.08	200	200.23	103	100	60-130	2	30
1,2-Dibromoethane	20	18.85	20	18.02	94	90	77-120	5	30
1,2-Dichloroethane	20	17.02	20	16.69	85	83	73-124	2	30
Ethylbenzene	20	18.82	20	18.56	94	93	80-120	1	30
Methyl Tertiary Butyl Ether	20	18.86	20	18.2	94	91	69-122	4	30
Toluene	20	19.67	20	19.25	98	96	80-120	2	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: 09/04/2019 13:02

Group Number: 2060366

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
Xylene (Total)	60	56.81	60	56.02	95	93	80-120	1	30
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 19235WAQ026	Sample number(s): 1133806-1133808,1133810-1133816								
Acenaphthene	1.00	0.766			77		64-118		
Acenaphthylene	1.00	0.815			82		64-107		
Anthracene	1.00	0.898			90		68-112		
Benzo(a)anthracene	1.00	1.05			105		68-116		
Benzo(a)pyrene	1.00	0.808			81		67-124		
Benzo(b)fluoranthene	1.00	0.853			85		67-123		
Benzo(e)pyrene	1.00	0.894			89		69-109		
Benzo(g,h,i)perylene	1.00	0.930			93		62-125		
Benzo(k)fluoranthene	1.00	0.873			87		64-123		
Biphenyl	1.00	0.928			93		74-101		
Chrysene	1.00	0.971			97		63-116		
Dibenz(a,h)anthracene	1.00	0.891			89		66-127		
Dibenzofuran	1.00	0.773			77		55-119		
Dibenzothiophene	1.00	0.889			89		76-111		
Fluoranthene	1.00	0.800			80		67-117		
Fluorene	1.00	0.802			80		65-120		
Indeno(1,2,3-cd)pyrene	1.00	0.973			97		66-129		
1-Methylnaphthalene	1.00	0.885			88		54-106		
2-Methylnaphthalene	1.00	0.867			87		50-117		
Naphthalene	1.00	0.896			90		55-110		
Perylene	1.00	0.968			97		68-146		
Phenanthrene	1.00	0.896			90		61-121		
Pyrene	1.00	0.881			88		61-118		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 19241A20A	Sample number(s): 1133806-1133817								
TPH-GRO water C6-C10	1100	1108.29			101		70-123		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 192400025A	Sample number(s): 1133806-1133816								
DRO C10-C28	2720.06	2388.49			88		27-118		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19241807902A	Sample number(s): 1133806								
HEM (oil & grease)	40	39.3	40	39.4	98	99	78-114	0	13
Batch number: 19242807902A	Sample number(s): 1133807								
HEM (oil & grease)	40	40.8	40	38	102	95	78-114	7	13
Batch number: 19242807903A	Sample number(s): 1133808,1133810-1133816								

*- 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: 09/04/2019 13:02

Group Number: 2060366

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/l	LCS Conc mg/l	LCSD Spike Added mg/l	LCSD Conc mg/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
HEM (oil & grease)	40	39.9	40	38.2	100	96	78-114	4	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: D192461AA	Sample number(s): 1133809-1133814 UNSPK: 1133810									
Benzene	0.233	20	22.13	20	20.49	110	101	80-120	8	30
t-Butyl alcohol	N.D.	200	197.36	200	185.29	99	93	60-130	6	30
1,2-Dibromoethane	N.D.	20	19.51	20	18.1	98	90	77-120	8	30
1,2-Dichloroethane	N.D.	20	20.53	20	18.91	103	95	73-124	8	30
Ethylbenzene	N.D.	20	21.65	20	19.83	108	99	80-120	9	30
Methyl Tertiary Butyl Ether	N.D.	20	20.53	20	19.17	103	96	69-122	7	30
Toluene	N.D.	20	21.78	20	19.85	109	99	80-120	9	30
Xylene (Total)	N.D.	60	65.27	60	60.01	109	100	80-120	8	30
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 19235WAQ026	Sample number(s): 1133806-1133808,1133810-1133816 UNSPK: 1133810									
Acenaphthene	1.19	2.00	2.07	2.03	2.56	44*	68	64-118	21	30
Acenaphthylene	0.105	2.00	1.29	2.03	1.55	59*	71	64-107	18	30
Anthracene	0.140	2.00	1.30	2.03	1.69	58*	76	68-112	26	30
Benzo(a)anthracene	N.D.	2.00	1.54	2.03	1.84	77	91	68-116	18	30
Benzo(a)pyrene	N.D.	2.00	1.20	2.03	1.46	60*	72	67-124	20	30
Benzo(b)fluoranthene	N.D.	2.00	1.31	2.03	1.59	66*	78	67-123	19	30
Benzo(e)pyrene	N.D.	2.00	1.32	2.03	1.64	66*	81	69-109	21	30
Benzo(g,h,i)perylene	N.D.	2.00	1.49	2.03	1.84	75	91	62-125	21	30
Benzo(k)fluoranthene	N.D.	2.00	1.22	2.03	1.51	61*	74	64-123	21	30
Biphenyl	0.391	2.00	1.54	2.03	1.96	58*	77	74-101	24	30
Chrysene	N.D.	2.00	1.49	2.03	1.80	75	89	63-116	19	30
Dibenz(a,h)anthracene	N.D.	2.00	1.41	2.03	1.74	70	86	66-127	21	30
Dibenzofuran	0.228	2.00	1.46	2.03	1.42	62	59	55-119	2	30
Dibenzothiophene	0.140	2.00	1.35	2.03	1.72	61*	78	76-111	24	30
Fluoranthene	0.0651	2.00	1.46	2.03	1.82	70	86	67-117	21	30
Fluorene	0.704	2.00	1.86	2.03	1.82	58*	55*	65-120	2	30
Indeno(1,2,3-cd)pyrene	N.D.	2.00	1.53	2.03	1.89	77	93	66-129	21	30
1-Methylnaphthalene	N.D.	2.00	1.37	2.03	1.65	69	81	54-106	18	30
2-Methylnaphthalene	0.0929	2.00	1.34	2.03	1.61	62	75	50-117	18	30
Naphthalene	N.D.	2.00	1.64	2.03	1.97	82	97	55-110	18	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: 09/04/2019 13:02

Group Number: 2060366

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
Perylene	N.D.	2.00	1.46	2.03	1.78	73	88	68-146	20	30
Phenanthrene	0.199	2.00	1.85	2.03	2.36	83	107	61-121	24	30
Pyrene	0.196	2.00	1.65	2.03	2.06	73	92	61-118	22	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 19241A20A	Sample number(s): 1133806-1133817 UNSPK: 1133810									
TPH-GRO water C6-C10	18.8	1100	1229.54	1100	1218.45	110	109	70-123	1	30
	ug/l	**ug/l**	**ug/l**	**ug/l**	**ug/l**					
Batch number: 192400025A	Sample number(s): 1133806-1133816 UNSPK: 1133810									
DRO C10-C28	968.68	2722.28	3370.26	2698.77	3461.74	88	92	51-115	3	20
	mg/l	**mg/l**	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19242807903A	Sample number(s): 1133808,1133810-1133816 UNSPK: 1133810									
HEM (oil & grease)	N.D.	46.5	43.95	46.5	48.84	95	105	78-114	11	43

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: D192461AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1133809	98	97	100	102
1133810	98	97	100	98
1133811	98	97	101	102
1133812	98	97	100	102
1133813	98	98	101	99
1133814	98	99	100	100
Blank	97	97	99	98
LCS	100	103	100	101
MS	98	97	101	102
MSD	98	97	100	102
Limits:	80-120	80-120	80-120	80-120

Analysis Name: VOCs- 5ml Water by 8260B UST
Batch number: F192441AA

*- 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: 09/04/2019 13:02

Group Number: 2060366

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: VOCs- 5ml Water by 8260B UST
Batch number: F192441AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1133806	89	93	103	98
1133807	89	95	103	99
1133808	90	98	102	99
1133815	88	95	102	98
1133816	90	95	102	98
1133817	90	96	103	99
Blank	89	93	102	98
LCS	89	97	103	99
LCSD	89	99	104	100
Limits:	80-120	80-120	80-120	80-120

Analysis Name: Alkyl PAHs in Water by GC/MS
Batch number: 19235WAQ026

	Fluoranthene-d10	Benzo(a)pyrene-d12	1-Methylnaphthalene-d10
1133806	58*	56	64
1133807	82	59	73
1133808	66	55	62
1133810	77	56	63
1133811	63	45*	54
1133812	77	55	64
1133813	60*	59	64
1133814	73	61	71
1133815	48*	46*	51*
1133816	60*	51	60
Blank	76	63	77
LCS	65	63	74
MS	63	45*	54
MSD	77	55	64
Limits:	61-117	49-104	53-109

Analysis Name: TPH-GRO water C6-C10
Batch number: 19241A20A

	Trifluorotoluene-F
1133806	86
1133807	77
1133808	88
1133809	90
1133810	70
1133811	92
1133812	95

*- 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.

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Quality Control Summary

Client Name: GeoSyntec Consultants
Reported: 09/04/2019 13:02

Group Number: 2060366

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: 19241A20A

	Trifluorotoluene-F
1133813	87
1133814	82
1133815	85
1133816	84
1133817	89
Blank	83
LCS	98
MS	92
MSD	95
Limits:	63-135

Analysis Name: DRO Microextraction Master
Batch number: 192400025A

	Orthoterphenyl
1133806	102
1133807	101
1133808	102
1133809	84
1133810	103
1133811	93
1133812	95
1133813	103
1133814	107
1133815	99
1133816	102
Blank	103
LCS	95
MS	93
MSD	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 # 2060366 Sample # 1133806-17

COC #590919

Client Information

Client: Geosyntec
Acct. #: AA
Project Name/#: PRGS
PWSID #:
Project Manager: M. Baver
P.O. #: MEM1108A
Sampler: A. Ambrosino & Colin Lamas
Quote #: AA
State where samples were collected: Virginia
For Compliance: Yes ☐ No ☒

For Lab Use Only
FSC:
SCR#: 247662

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: Ground	Water: Potable	Water: Surface	Water: NPDES	Other:	Total # of Containers	HEM (Oil & Grease)	TPH-GRO 8015B	VOCs 8260B	TPH-Ox 8015 Micro Ext.	PAHs-8270 SIM					Remarks
TW07	8-20-19	1210	X					X					11	X	X	X	X	X					(1) sample missing for TW07 - 40 mL vial
TW04	8-20-19	1415	X					X					12	X	X	X	X	X					
TW02	8-20-19	1535	X					X					12	X	X	X	X	X					
TW14	8-21-19	0910	X					X				5	16	X	X	X	X	X					(5) samples submitted for TW14 - 40 mL vials
TW06	8-21-19	1115	X					X					12	X	X	X	X	X					
TW03	8-21-19	1300	X					X					12	X	X	X	X	X					
TW05	8-21-19	1350	X					X					12	X	X	X	X	X					
																							Full collection not possible due to limited water

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: 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
[signature]	8/19/19	1215			
A. Ambrosino	8-20-19	1338	[signature]	8/20/19	1338
[signature]	8/20/19	1628	[signature]	8-20-19	1628

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 1.3-2.6 °C

Environmental Analysis Request/Chain of Custody

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Acct. # 9811 Group # 2060366 Sample # 1133806-17

COC # 590920

Client Information

Client: Geosyntec
Acct. #: 1AA
Project Name/#: PRGS
PWSID #:
Project Manager: M. Baver
P.O. #: MEM1108A
Sampler: A. Ambrosino & Colin Lamas
Quote #: 1AA
State where samples were collected: Virginia
For Compliance: Yes ☐ No ☒

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

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-8270SIM						Remarks
DUP20190820	8-20-19	—	X					X						12	X	X	X	X	X						For TW-14, Please sample for DRO first.
EB20190820	8-20-19	1620	X					X						12	X	X	X	X	X						
TW06 MS	8-21-19	1115	X					X						12	X	X	X	X	X						
TW06 MSD	8-21-19	1115	X					X						12	X	X	X	X	X						
TB19226	—	—	—					X						4	X	X	X	X	X						

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: 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	8-22-19	1338	[signature]	8/22/19	1338
[signature]	8/22/19	1628	[signature]	8-22-19	1628

EDD Required? Yes No
If yes, format: EQuat

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 1.3-2.6 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 257987

Group Number(s): 2060366

Client: Geosyntec

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/22/2019 16:28
Number of Packages:	3	Number of Projects:	1
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	Total Trip Blank Qty:	4
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Darian Jaynes (29 952) at 18:29 on 08/22/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT42-03	1.3	DT	Wet	Y	Loose	N
2	Water	DT42-03	1.6	DT	Wet	Y	Loose	N
3	Water	DT42-03	2.6	DT	Wet	Y	Loose	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.

Attachment D – Bulkhead Inspection Photographs

Bulkhead Inspection Photographs

Potomac River Generating Station, PC #2013-3154
1400 N. Royal Street
Alexandria, VA

Description:
Northern portion of the bulkhead

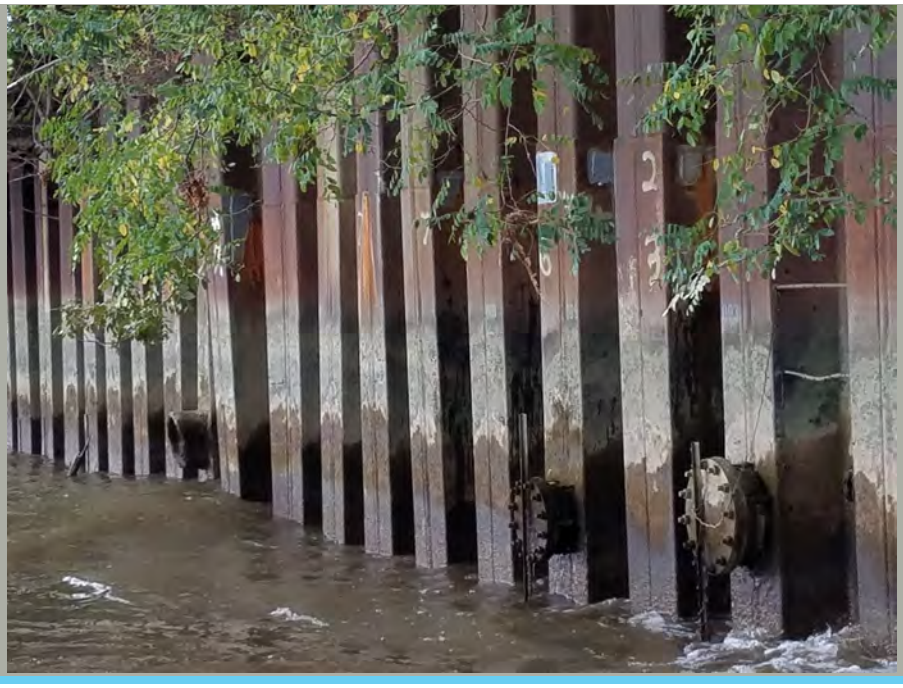
Direction of View:
West-Southwest

Date Taken:
10/17/2019

Description:
Northern and central portions of the bulkhead

Direction of View:
South

Date Taken:
10/17/2019



Bulkhead Inspection Photographs

Potomac River Generating Station, PC #2013-3154
1400 N. Royal Street
Alexandria, VA

Description:
Northern portion of the bulkhead

Direction of View:
South

Date Taken:
10/17/2019

Description:
Southern portion of bulkhead

Direction of View:
Northwest

Date Taken:
10/17/2019

Bulkhead Inspection Photographs

Potomac River Generating Station, PC #2013-3154
1400 N. Royal Street
Alexandria, VA

Description:
Central portion of the bulkhead.

Direction of View:
Northwest

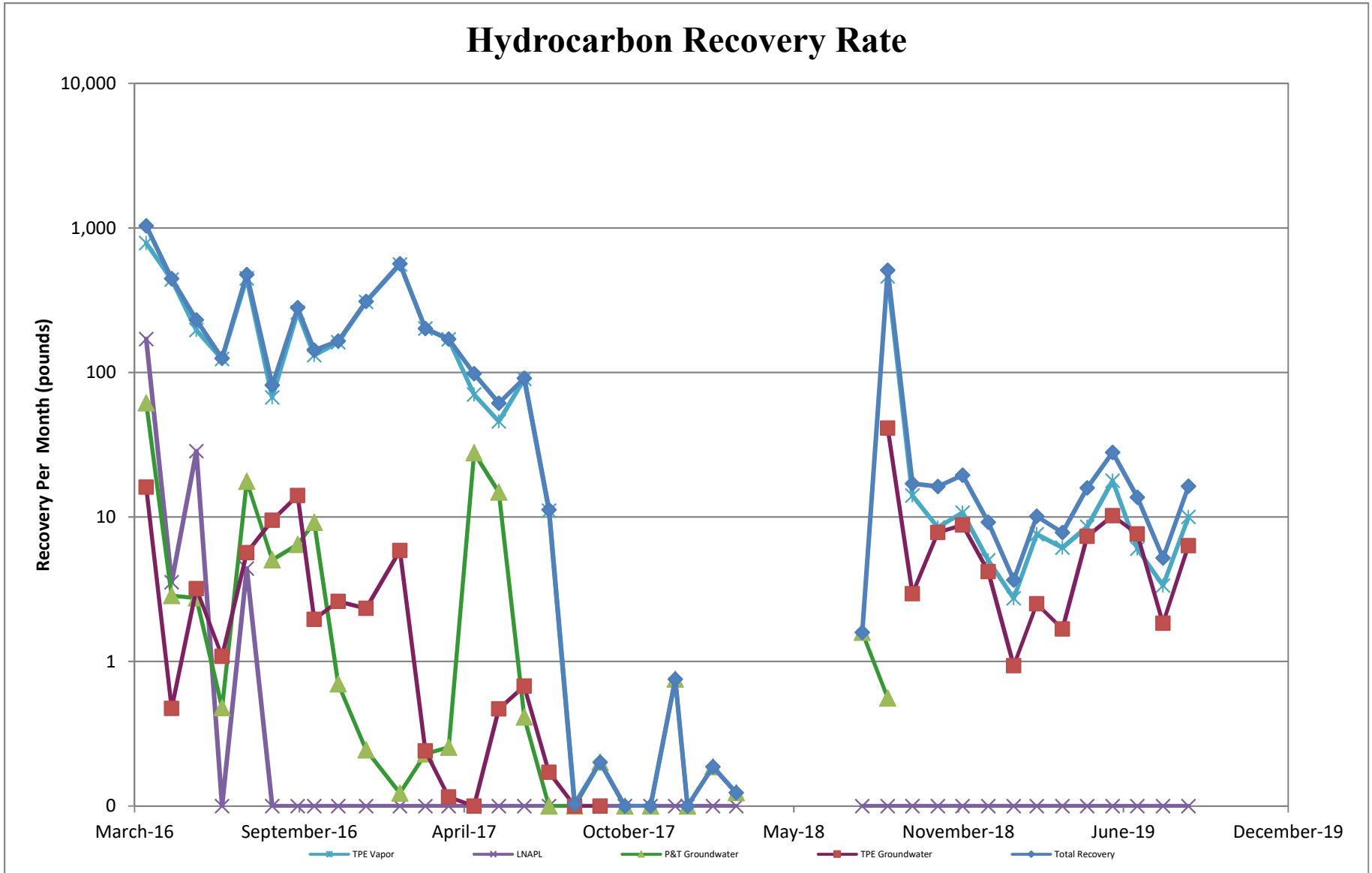
Date Taken:
10/17/2019

Attachment E – Remediation System Performance Graphs

Attachment E

REMEDIATION SYSTEM PERFORMANCE GRAPHS

NRG Potomac River Generating Station
1400 North Royal St
Alexandria, VA

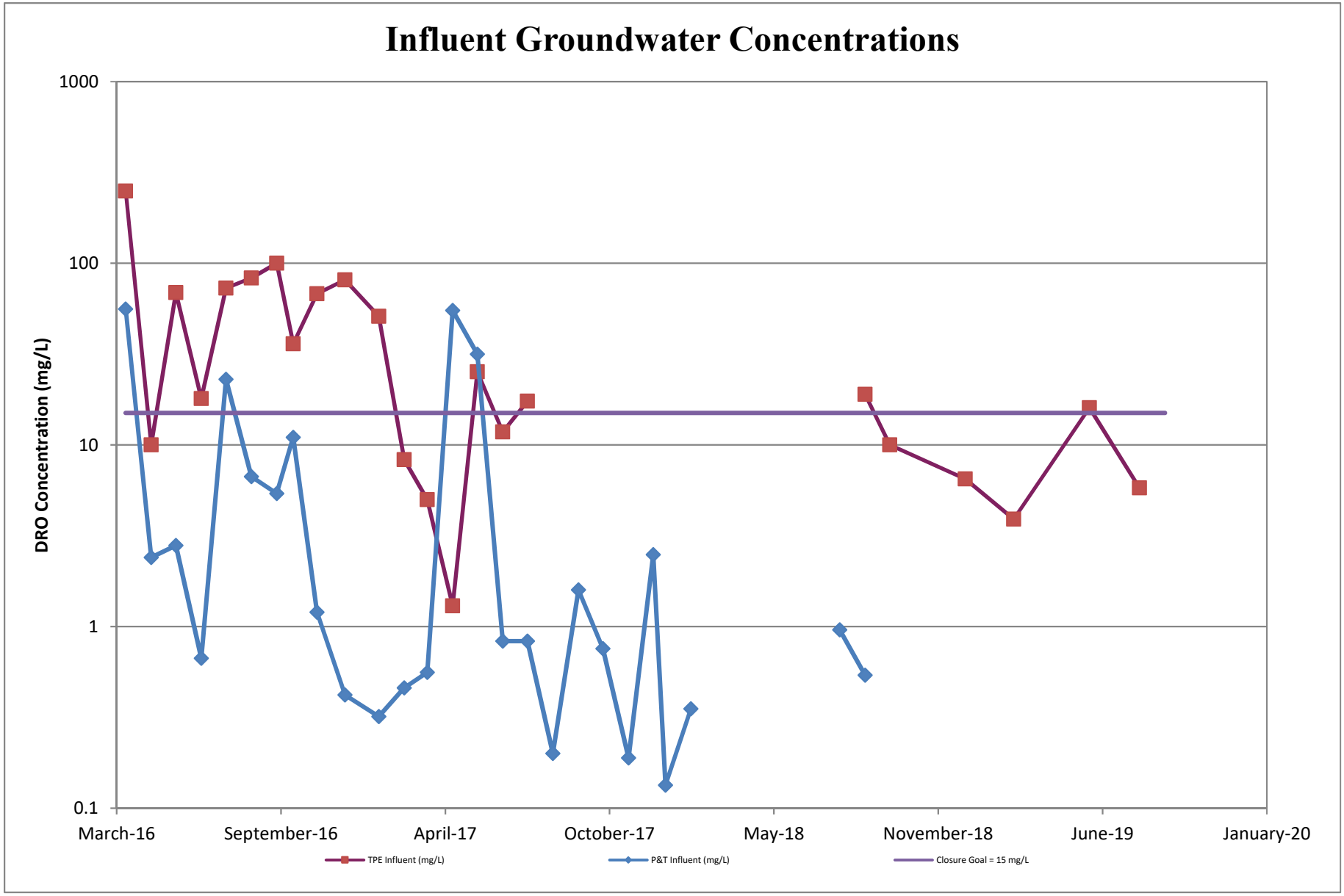


Note: The recovery rate is normalized to a 30 day monthly operation period.

Attachment E

REMEDIATION SYSTEM PERFORMANCE GRAPHS

NRG Potomac River Generating Station
1400 North Royal St
Alexandria, VA



Attachment F – 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: September 06, 2019 22:28

Project: NRG PRGS

Account #: 08390
Group Number: 2060489
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

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

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
Effluent Grab Groundwater	08/22/2019 12:15	1134370
Post OWS Grab Groundwater	08/22/2019 12:30	1134371
TPE Influent Grab Groundwater	08/22/2019 12:40	1134372

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**

GES, Inc.
ELLE Sample #: RW 1134370
ELLE Group #: 2060489
Matrix: Groundwater

Submittal Date/Time: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 12:15

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.	0.050	1
14687	Ethylbenzene		100-41-4	N.D.	0.10	1
14687	Naphthalene[1]		91-20-3	0.36 J	0.050	1
14687	Toluene		108-88-3	N.D.	0.050	1
14687	Xylene (total)		1330-20-7	N.D.	0.20	1
GC Petroleum Hydrocarbons		**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28		n.a.	14,000	53	1
Metals		**SW-846 6010B**		**mg/l**	**mg/l**	
07035	Arsenic[1]		7440-38-2	N.D.	0.0130	1
07049	Cadmium[1]		7440-43-9	N.D.	0.00088	1
07051	Chromium[1]		7440-47-3	0.0044 J	0.0016	1
07053	Copper[1]		7440-50-8	0.0082 J	0.0062	1
07055	Lead[1]		7439-92-1	N.D.	0.0071	1
07060	Molybdenum[1]		7439-98-7	N.D.	0.0020	1
07061	Nickel[1]		7440-02-0	0.0221	0.0031	1
07066	Silver[1]		7440-22-4	N.D.	0.0045	1
07072	Zinc[1]		7440-66-6	0.0374	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.	14.1	1.4	1

Sample Comments

[1] = This analyte was not on the laboratory's VELAP Scope of Accreditation at the time of analysis.

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	U192381AA	08/26/2019 19:41	Jason M Long	1
12858	DRO micro-ext 8015B	SW-846 8015B	1	192400025A	08/30/2019 15:23	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
07035	Arsenic	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
07049	Cadmium	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
07051	Chromium	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
07053	Copper	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
07055	Lead	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
07060	Molybdenum	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1

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Analysis Report

Sample Description: **Effluent Grab Groundwater NRG - PRGS**

Project Name: **NRG PRGS**

Submittal Date/Time: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 12:15

GES, Inc.
ELLE Sample #: RW 1134370
ELLE Group #: 2060489
Matrix: Groundwater

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07061	Nickel	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
07066	Silver	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
07072	Zinc	SW-846 6010B	1	192401404407	08/30/2019 15:08	Patrick J Engle	1
00259	Mercury	SW-846 7470A	1	192420571302	09/03/2019 09:52	Damary Valentin	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192401404407	08/29/2019 03:57	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	192420571302	08/31/2019 13:50	JoElla L Rice	1
00237	Total Cyanide (water)	EPA 335.4	1	19240102101A	08/29/2019 11:33	Ashlynn M Cornelius	1
00492	Cyanide Water Distillation	EPA 335.4	1	19240102101A	08/28/2019 17:15	Barbara A Washington	1
08079	HEM (oil & grease)	EPA 1664A	1	19242807903A	08/30/2019 17:53	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: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 12:30

GES, Inc.
ELLE Sample #: GW 1134371
ELLE Group #: 2060489
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	9,900	53	1
Wet Chemistry	**EPA 1664A**		**mg/l**	**mg/l**	
08079	HEM (oil & grease)	n.a.	12.6	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	192400025A	08/30/2019 15:47	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1
08079	HEM (oil & grease)	EPA 1664A	1	19242807903A	08/30/2019 17:53	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: 08/23/2019 17:53
Collection Date/Time: 08/22/2019 12:40

GES, Inc.
ELLE Sample #: GW 1134372
ELLE Group #: 2060489
Matrix: Groundwater

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
12858	DRO C10-C28	n.a.	5,800	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	192400025A	08/30/2019 16:11	Heather E Williams	1
12059	Microextraction - DRO (waters)	SW-846 3511 Rev 1, July 2014	1	192400025A	08/29/2019 06:30	Maria Davenport	1

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/06/2019 22:28

Group Number: 2060489

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: U192381AA	Sample number(s): 1134370	
Benzene	N.D.	0.050
Ethylbenzene	N.D.	0.10
Naphthalene	N.D.	0.050
Toluene	N.D.	0.050
Xylene (total)	N.D.	0.20
Batch number: 192400025A	Sample number(s): 1134370-1134372	
DRO C10-C28	N.D.	53
	mg/l	mg/l
Batch number: 192401404407	Sample number(s): 1134370	
Arsenic	N.D.	0.0130
Cadmium	N.D.	0.00088
Chromium	0.0024 J	0.0016
Copper	N.D.	0.0062
Lead	N.D.	0.0071
Molybdenum	N.D.	0.0020
Nickel	N.D.	0.0031
Silver	N.D.	0.0045
Zinc	N.D.	0.0030
Batch number: 192420571302	Sample number(s): 1134370	
Mercury	N.D.	0.000050
Batch number: 19240102101A	Sample number(s): 1134370	
Total Cyanide (water)	N.D.	0.0050
Batch number: 19242807903A	Sample number(s): 1134370-1134371	
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: U192381AA	Sample number(s): 1134370								
Benzene	20	22.03			110		65-135		
Ethylbenzene	20	22.79			114		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.

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Quality Control Summary

Client Name: GES, Inc.
Reported: 09/06/2019 22:28

Group Number: 2060489

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	21.12			106		60-140		
Toluene	20	23.41			117		70-130		
Xylene (total)	60	69.58			116		60-140		
	ug/l	**ug/l**	**ug/l**	**ug/l**					
Batch number: 192400025A	Sample number(s): 1134370-1134372								
DRO C10-C28	2720.06	2388.49			88		27-118		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 192401404407	Sample number(s): 1134370								
Arsenic	0.150	0.153			102		86-120		
Cadmium	0.0500	0.0513			103		90-111		
Chromium	0.200	0.200			100		87-110		
Copper	0.250	0.254			101		90-115		
Lead	0.150	0.149			100		87-113		
Molybdenum	2.00	2.07			104		85-112		
Nickel	0.500	0.514			103		90-114		
Silver	0.0500	0.0501			100		80-120		
Zinc	0.500	0.494			99		89-111		
Batch number: 192420571302	Sample number(s): 1134370								
Mercury	0.00100	0.000855			85		80-110		
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19240102101A	Sample number(s): 1134370								
Total Cyanide (water)	0.200	0.211	0.200	0.208	106	104	90-110	1	20
	mg/l	**mg/l**	**mg/l**	**mg/l**					
Batch number: 19242807903A	Sample number(s): 1134370-1134371								
HEM (oil & grease)	40	39.9	40	38.2	100	96	78-114	4	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: BTEX, Naphthalene
Batch number: U192381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
1134370	100	106	103	100
Blank	99	105	104	103
LCS	96	102	107	105

*- 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: 09/06/2019 22:28

Group Number: 2060489

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: U192381AA

Limits:	60-140	60-140	60-140	60-140

Analysis Name: DRO micro-ext 8015B
Batch number: 192400025A

	Orthoterphenyl
1134370	71
1134371	67
1134372	77
Blank	103
LCS	95
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 # 2060489 Sample # 1134370-72

Client: Groundwater & Env. Services, Inc.					Matrix				Analyses Requested															For Lab Use Only	
Project Name/#: NRG PRGS	Site ID #: NRG PRGS				Sediment	Ground ☑	Surface ☐		Preservation Codes															SF #:	
Project Manager: Anne Ashley Bell	P.O. #: 0402919/53/220								H	-	N	N	B	H	-	-	-	-	-					SCR #:	
Sampler: Jeff Plummer	PWSID #:					Potable ☐	NPDES ☑																		
Phone #: 800-220-3606 x 3704	Quote #:																								
State where sample(s) were collected: 1400 North Royal St, Alexandria, VA					Soil ☐	Water		Other:	Total # of Containers	Oil & Grease (EPA 1664A)	BTEX and Naphthalene (EPA 624)	Metals (6010B) (Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Silver, Zinc)	Mercury (7470A)	Total Cyanide (EPA 335.4)	TPH-DRO (EPA 8015B)								Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other	
Sample Identification	Collection Date	Collection Time	Grab	Composite																				Remarks	
Effluent	8-22-19	1215	X			X			9	X	X	X	X	X	X										
Post OWS	8-22-19	1230	X			X			4	X					X										
TPE Influent	8-22-19	1240	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	8-23-19	0800	Denise Woodring	8-23-19	0800
Denise Woodring	8-23-19	1407	[illegible]	8-23-19	1407
[illegible]	8-23-19	1753			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.6 °C

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7045 0614

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Sample Administration Receipt Documentation Log

Doc Log ID: 258189

Group Number(s): 2060489

Client: GES

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	08/23/2019 17:53
Number of Packages:	1	Number of Projects:	1
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	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Darian Jaynes (29 952) at 18:25 on 08/23/2019

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT146	1.6	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

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

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.